

# **Safety Data Sheets**

**Warehouse**

**CCI**

**12/18/2017**

**Safety Data Sheet Index**  
**Binder: CCI - Warehouse**

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# MATERIAL SAFETY DATA SHEET

## 16/86 Multi-Performance Tile & Tread Adhesive

CODE #2073400

DATE: December 12, 2012

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### 1. Chemical Product and Company Identification:

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**COMPANY:** Flexco  
1401 East 6th Street  
Tuscumbia, Alabama 35674  
800-633-3151

**EMERGENCY PHONE:** 1-866-353-9261

**TRADE NAME:** 16/86 Multi-Performance Tile & Tread Adhesive

**PRODUCT DESCRIPTION:** Water Based Acrylic Flooring Adhesive

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### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS:

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MATERIAL	CAS #	% BY WT.	OSHA EXPOSURE GUIDELINES	
			TLV-TWA	PEL-STEL

No known hazardous ingredients at levels above 1% by weight

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### 3. HAZARDS IDENTIFICATION:

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**EMERGENCY OVERVIEW:** Can cause eye irritation

**POTENTIAL HEALTH EFFECTS:**

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: No effect known.

INGESTION: Not likely to occur. If swallowed, no side effects known.

INHALATION: No effect known.

**CHRONIC EFFECTS / CARCINOGENICITY:**

IARC: Not suspected as a human carcinogen.

OSHA: Not suspected as a human carcinogen.

NTP: Not suspected as a human carcinogen.

OTHER: None known.

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### 4. FIRST AID MEASURES:

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EYES: Immediately flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN: Wash with soap and water. Contact a physician if irritation occurs.

INGESTION: Induce vomiting, contact a physician.

INHALATION: Remove to fresh air. Contact a physician if irritation occurs.

Continued on next page:

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## 5. FIRE FIGHTING MEASURES AND FIRE HAZARDS:

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FLASH POINT (°) F: None.  
LOWER FLAMMABLE LIMIT: None.  
UPPER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.

DECOMPOSITION PRODUCTS: Dried material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, N<sub>x</sub>O, and other products from the burning of aromatic hydrocarbons.

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## 6. ACCIDENTAL RELEASE MEASURES:

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dispense sand or vermiculite. Collect and place in waste container. Wash area thoroughly with water.

---

## 7. HANDLING AND STORAGE:

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HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Keep out of the reach of children.

STORAGE: Store above 40°F.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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RESPIRATORY PROTECTION: Not normally required with good ventilation.

SKIN PROTECTION: Wear gloves if contact with material is likely.

EYE PROTECTION: Wear splash goggles if contact with material is likely.

ENGINEERING CONTROLS: Normal room ventilation.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

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APPEARANCE AND ODOR: Beige colored paste with mild odor.

SPECIFIC GRAVITY (WATER = 1): 1.1451

BOILING POINT (°F): 212

VAPOR PRESSURE: Same as water.

VAPOR DENSITY (air=1): Same as water.

% VOLATILE BY WEIGHT: 48

pH: 9.5

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## 10. STABILITY AND REACTIVITY:

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CHEMICAL STABILITY: Stable.

INCOMPATIBLE MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

Continued on next page:

# 16/86 Multi-Performance Tile & Tread Adhesive

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**11. TOXICOLOGICAL INFORMATION:**

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This product has been tested for toxicity (acute inhalation; acute dermal; skin irritation; oral) and has been found to be non-toxic as defined by The Federal Hazardous Substance Act, 16 CFR 1500.3.

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**12. ECOLOGICAL INFORMATION:**

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No information available.

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**13. DISPOSAL CONSIDERATIONS:**

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Dispose of in accordance with Federal, State and Local regulations.

**PROPER WASTE DISPOSAL IS THE RESPONSIBILITY OF THE OWNER OF THE WASTE!**

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**14. TRANSPORTATION INFORMATION:**

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For domestic transportation purpose, this product is not designated as a hazardous material by the U.S. Department of Transportation (DOT). For international transportation purpose, this product is not designated as a hazardous material by the International Air Transport Association (IATA) or by the International Maritime Dangerous Goods (IMDG) code.

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**15. REGULATORY INFORMATION:**

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**TSCA:** All ingredients are listed under the Toxic Substance Control Act

**PROPOSITION 65:** This product contains the following chemicals known to the state of California (Proposition 65) to cause cancer or reproductive toxicity: None known.

**SECTION 313:** This product contains the following substances subject to the reporting requirements of Section 313 of TITLE III of Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372: None known.

**V.O.C.:** <0.1 Lbs/Gal. (SCAQMD Rule 1168) <1 G/L

**WHMIS INFORMATION:** NOT CONTROLLED

**HMIS RATINGS:** Health = 1 Flammability = 1  
Reactivity = 0 Personal Protective Equipment = B

Hazard Index: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

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**16. OTHER INFORMATION:**

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Version 1 (12-12-12)

All employees, contractors, etc., who use this product must have access to this Material Safety Data Sheet.

PREPARED BY: RHC (rb)

# MATERIAL SAFETY DATA SHEET

## 3100 Rubber Tile & Tread Adhesive

CODE #2073400

DATE: December 12, 2012

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### 1. Chemical Product and Company Identification:

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**COMPANY:** RHC  
1602 North Union Street  
Fostoria, Ohio 44830-1158  
866-353-9261

**EMERGENCY PHONE:** 1-866-353-9261

**TRADE NAME:** 3100 Rubber Tile & Tread Adhesive

**PRODUCT DESCRIPTION:** Water Based Acrylic Flooring Adhesive

---

### 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS:

---

MATERIAL	CAS #	% BY WT.	OSHA EXPOSURE GUIDELINES	
			TLV-TWA	PEL-STEL
No known hazardous ingredients at levels above 1% by weight				

---

### 3. HAZARDS IDENTIFICATION:

---

**EMERGENCY OVERVIEW:** Can cause eye irritation

**POTENTIAL HEALTH EFFECTS:**

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: No effect known.

INGESTION: Not likely to occur. If swallowed, no side effects known.

INHALATION: No effect known.

**CHRONIC EFFECTS / CARCINOGENICITY:**

IARC: Not suspected as a human carcinogen.

OSHA: Not suspected as a human carcinogen.

NTP: Not suspected as a human carcinogen.

OTHER: None known.

---

### 4. FIRST AID MEASURES:

---

EYES: Immediately flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN: Wash with soap and water. Contact a physician if irritation occurs.

INGESTION: Induce vomiting, contact a physician.

INHALATION: Remove to fresh air. Contact a physician if irritation occurs.

Continued on next page:



# 3100 Rubber Tile & Tread Adhesive

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## 5. FIRE FIGHTING MEASURES AND FIRE HAZARDS:

---

FLASH POINT (°) F: None.  
LOWER FLAMMABLE LIMIT: None.  
UPPER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.

DECOMPOSITION PRODUCTS: Dried material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, N<sub>x</sub>O, and other products from the burning of aromatic hydrocarbons.

---

## 6. ACCIDENTAL RELEASE MEASURES:

---

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dispense sand or vermiculite. Collect and place in waste container. Wash area thoroughly with water.

---

## 7. HANDLING AND STORAGE:

---

HANDLING: Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Keep out of the reach of children.

STORAGE: Store above 40°F.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

RESPIRATORY PROTECTION: Not normally required with good ventilation.

SKIN PROTECTION: Wear gloves if contact with material is likely.

EYE PROTECTION: Wear splash goggles if contact with material is likely.

ENGINEERING CONTROLS: Normal room ventilation.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

---

APPEARANCE AND ODOR: Beige colored paste with mild odor.

SPECIFIC GRAVITY (WATER = 1): 1.1451

BOILING POINT (°F): 212

VAPOR PRESSURE: Same as water.

VAPOR DENSITY (air=1): Same as water.

% VOLATILE BY WEIGHT: 48

pH: 9.5

---

## 10. STABILITY AND REACTIVITY:

---

CHEMICAL STABILITY: Stable.

INCOMPATIBLE MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

Continued on next page:

# 3100 Rubber Tile & Tread Adhesive

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## 11. TOXICOLOGICAL INFORMATION:

---

This product has been tested for toxicity (acute inhalation; acute dermal; skin irritation; oral) and has been found to be non-toxic as defined by The Federal Hazardous Substance Act, 16 CFR 1500.3.

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## 12. ECOLOGICAL INFORMATION:

---

No information available.

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## 13. DISPOSAL CONSIDERATIONS:

---

Dispose of in accordance with Federal, State and Local regulations.

**PROPER WASTE DISPOSAL IS THE RESPONSIBILITY OF THE OWNER OF THE WASTE!**

---

## 14. TRANSPORTATION INFORMATION:

---

For domestic transportation purpose, this product is not designated as a hazardous material by the U.S. Department of Transportation (DOT).

---

## 15. REGULATORY INFORMATION:

---

**TSCA:** All ingredients are listed under the Toxic Substance Control Act

**PROPOSITION 65:** This product contains the following chemicals known to the state of California (Proposition 65) to cause cancer or reproductive toxicity: **None known.**

**SECTION 313:** This product contains the following substances subject to the reporting requirements of Section 313 of TITLE III of Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372: **None known.**

**V.O.C.:** <0.1 Lbs/Gal. (SCAQMD Rule 1168) <1 G/L

**WHMIS INFORMATION:** NOT CONTROLLED

**HMIS RATINGS:** Health = 1                      Flammability = 1  
                                Reactivity = 0                      Personal Protective Equipment = B

Hazard Index: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

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## 16. OTHER INFORMATION:

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Version 1 (12-12-12)

All employees, contractors, etc., who use this product must have access to this Material Safety Data Sheet.

PREPARED BY: RHC (rb)

## Safety Data Sheet

### 5100 TREAD NOSE COMPOUND PART A

Safety Data Sheet dated: 5/8/2015 - version 1

Date of first edition: 5/8/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: 5100 TREAD NOSE COMPOUND PART A

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Roppe Holding Company

1602 North Union St.

44830-1158 - Fostoria - OH - USA

Phone: 1-800-537-9527

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 1A	May cause cancer if inhaled.
Repr. 2	Suspected of damaging fertility or the unborn child if inhaled.
STOT RE 1	Causes damage to organs through prolonged or repeated exposure if inhaled or swallowed.
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

### Label elements

#### Symbols:



Danger

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350.A	May cause cancer if inhaled.
H361.A	Suspected of damaging fertility or the unborn child if inhaled.
H372.E	Causes damage to organs through prolonged or repeated exposure if inhaled or swallowed.
H411	Toxic to aquatic life with long lasting effects.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260.B	Do not breathe dust.
P264.2	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
30-40 %	Epoxy Resin	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411
1-5 %	Dimethyl silicone polymer with silica	CAS:67762-90-7	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
1-5 %	Dipropylene glycol dibenzoate	CAS:27138-31-4	Aquatic Chronic 3, H412
1-5 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A
0.1-1 %	Nonylphenol	CAS:25154-52-3	Repr. 2, H361; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- If breathing is irregular or stopped, administer artificial respiration.
- In case of inhalation, consult a doctor immediately and show him packing or label.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Physical state: Liquid  
Appearance and colour: Paste  
Odour: characteristic  
Odour threshold: N.A.  
pH: N.A.  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: >38 °C (100 °F)  
Flash point: >100 °C (212 °F)  
Evaporation rate: <1.0  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: >1.0  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: Soluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

## Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

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## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Epoxy Resin	a) acute toxicity	LD50 Oral Rat 11400mg/kg
Polyurethane prepolymer	a) acute toxicity	LD50 Skin Rabbit = 2031mg/kg LD50 Oral Rat = 580mg/kg
Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg
Nonylphenol	a) acute toxicity	LD50 Skin Rabbit = 2031mg/kg LD50 Oral Rat = 580mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

Silica Sand Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
1-5 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h
0.1-1 %	Nonylphenol	CAS: 25154-52-3	LC50 a) Aquatic acute toxicity Fish Pimephales promelas= 135mg/L 96h EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 14mg/L 48h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 41mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 13mg/L 72h IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

ADR-UN number: N.A.

DOT-UN Number: N.A.

IATA-Un number: N.A.

IMDG-Un number: N.A.

**UN proper shipping name**

ADR-Shipping Name: N.A

DOT-Proper Shipping Name: N.A

IATA-Technical name: N.A

IMDG-Technical name: N.A

**Transport hazard class(es)**

ADR-Class: N.A.  
 DOT-Hazard Class: N.A.  
 IATA-Class: N.A.  
 IMDG-Class: N.A.

**Packing group**

ADR-Packing Group: N.A.  
 DOT-Packing group: N.A.  
 IATA-Packing group: N.A.  
 IMDG-Packing group: N.A.

**Environmental hazards**

Marine pollutant: Yes  
 Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):  
 N.A.  
 Road and Rail (ADR-RID):  
 N.A.  
 Air (IATA):  
 N.A.  
 Sea (IMDG):  
 N.A.

**15. REGULATORY INFORMATION****USA - Federal regulations****TSCA - Toxic Substances Control Act****TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Epoxy Resin	is listed in TSCA	Section 8b
Dimethyl silicone polymer with silica	is listed in TSCA	Section 8b, Section 8a - PAIR
Dipropylene glycol dibenzoate	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b
Nonylphenol	is listed in TSCA	Section 8b, Section 8a - PAIR

**SARA - Superfund Amendments and Reauthorization Act****Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act****Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act****CAA listed substances:**

Nonylphenol	is listed in CAA	Section 112(b) - HON
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**CWA - Clean Water Act****CWA listed substances:**

no substances listed

**USA - State specific regulations**



**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

Silica Sand Listed as carcinogen

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

Silica Sand  
Nonylphenol

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

Silica Sand  
Nonylphenol

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

Silica Sand

**16. OTHER INFORMATION**

Code	Description
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H350.A	May cause cancer if inhaled.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361.A	Suspected of damaging fertility or the unborn child if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.
H372.E	Causes damage to organs through prolonged or repeated exposure if inhaled or swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 5/8/2015 - version 1

Product code: 2500

**Additional classification information**



HMIS Health: 1 = Slight  
 HMIS Health - Is health hazard chronic?: Yes  
 HMIS Flammability: 1 = Combustible if heated  
 HMIS Reactivity: 1 = Slight  
 HMIS P.P.E.: Safety glasses, gloves  
 NFPA Health: 1 = Slight  
 NFPA Flammability: 1 = Combustible if heated  
 NFPA Reactivity: 1 = Slight  
 NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

## Safety Data Sheet

### 5100 TREAD NOSE COMPOUND PART B

Safety Data Sheet dated: 5/18/2015 - version 1

Date of first edition: 5/18/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: 5100 TREAD NOSE COMPOUND PART B

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Roppe Holding Company

1602 North Union St.

44830-1158 - Fostoria - OH - USA

Phone: 1-800-537-9527

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Corr. 1B	Causes severe skin burns and eye damage.
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1	May cause an allergic skin reaction.
Repr. 2	Suspected of damaging fertility. Suspected of damaging the unborn child.

### Label elements

#### Symbols:



Danger

Code	Description
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260.1	Do not breathe mist/vapours/spray.
P264.2	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280.1	Wear protective gloves and eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353.1	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

P310.A	Immediately call a POISON CENTER.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
40-50 %	Urea, N,N'-bis[3-(dimethylamino)propyl]-	CAS:52338-87-1	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317
20-30 %	Diethylene triamine	CAS:111-40-0	Skin Corr. 1B, H314; Skin Sens. 1, H317; Acute Tox. 4, H302; Acute Tox. 4, H312
10-20 %	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, diethylenetriamine-terminated	CAS:68610-56-0	Skin Irrit. 2, H315; Eye Irrit. 2A, H319
10-20 %	Bisphenol A	CAS:80-05-7	Repr. 2, H335; STOT SE 3, H318; Eye Dam. 1, H317

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

## Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Diethylene triamine	ACGIH				1				Skin - potential significant contribution to overall exposure by the cutaneous route; eye and upper respiratory tract irritation;
Bisphenol A	EU		10					Indicative	

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: N.A.

Odour: like: Amines

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: No data available  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

**Other information**

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

**10. STABILITY AND REACTIVITY**

**Reactivity**

Stable under normal conditions

**Chemical stability**

Data not Available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

---

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

**Toxicological information on main components of the mixture:**

Diethylene triamine	a) acute toxicity	LD50 Skin Rabbit = 672mg/kg LD50 Oral Rat = 819mg/kg
Bisphenol A	a) acute toxicity	LD50 Skin Rabbit = 3000,00000mg/kg LD50 Oral Rat = 3200mg/kg LD50 Skin Rabbit = 3ml/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

None

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
20-30 %	Diethylene triamine	CAS: 111-40-0	LC50 a) Aquatic acute toxicity Fish Poecilia reticulata= 248mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 16mg/L 48h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 1164mg/L 72h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 345,60000mg/L 96h EPA EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 592mg/L 96h IUCLID LC50 a) Aquatic acute toxicity Fish Leuciscus idus= 430,00000mg/L 96h EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 37,00000mg/L 24h EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 16,00000mg/L 48h
10-20 %	Bisphenol A	CAS: 80-05-7	LC50 a) Aquatic acute toxicity Fish Pimephales promelas3,60000mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss= 4mg/L 96h IUCLID LC50 a) Aquatic acute toxicity Fish Brachydanio rerio= 9,90000mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 10,20000mg/L 48h IUCLID EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 2,50000mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia Magna= 3,90000mg/L 48h

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

---

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

## 14. TRANSPORT INFORMATION

### UN number

ADR-UN number: 2735

DOT-UN Number: UN2735

IATA-Un number: 2735

IMDG-Un number: 2735

### UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

DOT-Proper Shipping Name: Amines, liquid, corrosive, n.o.s.,(Diethylene triamine, Modified Aliphatic Amine Adduct)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene triamine, Modified Aliphatic Amine Adduct)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene triamine, Modified Aliphatic Amine Adduct)

### Transport hazard class(es)

ADR-Class: 8

DOT-Hazard Class: 8

IATA-Class: 8

IMDG-Class: 8

**Packing group**

ADR-Packing Group: III

DOT-Packing group: III

IATA-Packing group: III

IMDG-Packing group: III

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Tunnel Restriction Code: 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 852

IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subrisk: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: "Separated from" acids.

IMDG-Subrisk: -

IMDG-Special Provisions: 223 274

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-A, S-B

IMDG-MFAG: N/A

---

**15. REGULATORY INFORMATION**

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Urea, N,N'-bis[3-(dimethylamino)propyl]-	is listed in TSCA	Section 8b
Diethylene triamine	is listed in TSCA	Section 8b
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, diethylenetriamine-terminated	is listed in TSCA	Section 8b
Bisphenol A	is listed in TSCA	Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed



**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

Bisphenol A

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act**

**CAA listed substances:**

Bisphenol A is listed in CAA Section 112(b) - HON

**CWA - Clean Water Act**

**CWA listed substances:**

no substances listed

**USA - State specific regulations**

**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

Diethylene triamine Listed as carcinogen

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

Diethylene triamine  
Bisphenol A

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

Diethylene triamine  
Bisphenol A

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

Diethylene triamine  
Bisphenol A

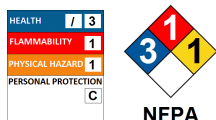
**16. OTHER INFORMATION**

Code	Description
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Safety Data Sheet dated: 5/18/2015 - version 1

Product code: 2479

**Additional classification information**



HMIS Health: 3 = Serious  
HMIS Health - Is health hazard chronic?: No  
HMIS Flammability: 1 = Combustible if heated  
HMIS Reactivity: 1 = Slight  
HMIS P.P.E.: Safety glasses, gloves, chemical apron  
NFPA Health: 3 = Serious  
NFPA Flammability: 1 = Combustible if heated  
NFPA Reactivity: 1 = Slight  
NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

## Safety Data Sheet

### 8100 Acrylic ESD Adhesive

Safety Data Sheet dated: 5/13/2015 - version 1

Date of first edition: 5/13/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: 8100 Acrylic ESD Adhesive

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Roppe Holding Company

1602 North Union St.

44830-1158 - Fostoria - OH - USA

Phone: 1-800-537-9527

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Carc. 1A May cause cancer.

STOT RE 1 Causes damage to organs through prolonged or repeated exposure.

### Label elements

#### Symbols:



Danger

Code	Description
------	-------------

H350.1	May cause cancer.
--------	-------------------

H372.1	Causes damage to organs through prolonged or repeated exposure.
--------	---

Code	Description
------	-------------

P201	Obtain special instructions before use.
------	---

P202	Do not handle until all safety precautions have been read and understood.
------	---

P260.B	Do not breathe dust.
--------	----------------------

P264.2	Wash skin thoroughly after handling.
--------	--------------------------------------

P270	Do not eat, drink or smoke when using this product.
------	---

P280.I	Wear protective gloves and eye protection.
--------	--

P308+P313	IF exposed or concerned: Get medical advice/attention.
-----------	--

P314	Get medical advice/attention if you feel unwell.
------	--

P405	Store locked up.
------	------------------

P501.A	Dispose of contents/container in accordance with applicable regulations.
--------	--

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Substances

N.A.

## Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

### List of components

Quantity	Name	Ident. Numb.	Classification
5-10 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

---

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste black

Odour: Latex like

Odour threshold: N.A.

pH: 8.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: >100 °C (212 °F)

Evaporation rate: Same as water

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.15 g/cm3

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

**Other information**

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

---

**10. STABILITY AND REACTIVITY**

**Reactivity**

Stable under normal conditions

**Chemical stability**

Data not Available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

**Toxicological information on main components of the mixture:**

Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg
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If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

Silica Sand	Group 1
-------------	---------

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

**12. ECOLOGICAL INFORMATION****Toxicity**

Adopt good working practices, so that the product is not released into the environment.

**Eco-Toxicological Information:****List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
5-10 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

## 14. TRANSPORT INFORMATION

### UN number

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

### UN proper shipping name

ADR-Shipping Name: N/A  
DOT-Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

### Transport hazard class(es)

ADR-Class: N/A  
DOT-Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Silica Sand is listed in TSCA Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act**

**CAA listed substances:**

no substances listed

**CWA - Clean Water Act**

**CWA listed substances:**

no substances listed

**USA - State specific regulations**

**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

Silica Sand Listed as carcinogen

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

Silica Sand

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

Silica Sand

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

Silica Sand

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**16. OTHER INFORMATION**

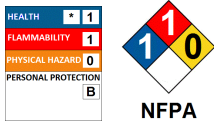
Code	Description
H350.1	May cause cancer.
H350.A	May cause cancer if inhaled.
H372.1	Causes damage to organs through prolonged or repeated exposure.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 5/13/2015 - version 1

Product code: 2228

**Additional classification information**





HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

# MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc. Product: 965 Flooring and Tread Adhesive  
16910 Munn Road, Chagrin Falls, Ohio 44023  
24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

## SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: JOHNSONITE 965  
CHEMICAL FAMILY: Water Base Adhesive

## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
None				

## SECTION 3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Eyes.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.  
POTENTIAL HEALTH EFFECTS:  
EYE CONTACT: May cause slight irritation.  
SKIN CONTACT: May cause slight irritation  
INGESTION: May cause gastric distress.  
INHALATION: May cause slight respiratory irritation  
CHRONIC: None known.  
CARCINOGENICITY: This product contains no ingredient above the OSHA minimum reporting threshold listed by IARC, NTP, or OSHA.

## SECTION 4. FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes. Call physician if irritation occurs.  
SKIN CONTACT: Wash with soap and water.  
INGESTION: Do not induce vomiting. Contact a physician.  
INHALATION: Move person to fresh air.

## SECTION 5. FIRE-FIGHTING MEASURES

FLASH POINT (°)F: None.  
LOWER FLAMMABLE LIMIT: None.  
UPPER FLAMMABLE LIMIT: None.  
FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.  
EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.  
DECOMPOSITION PRODUCTS: Dried material may produce CO, CO<sub>2</sub>

## SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Shovel or scoop spill material into secure container(s) for reuse or disposal. Dispense sand, sawdust, or vermiculite and absorb spill residue. Collect and place in waste container. Wash area thoroughly with water.

# MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc. Product: 965 Flooring and Tread Adhesive  
16910 Munn Road, Chagrin Falls, Ohio 44023  
24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

## SECTION 7. HANDLING AND STORAGE

**HANDLING:** Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Keep out of the reach of children.

**STORAGE:** Store above 40° F. Freeze-thaw stable up to five cycles at 20° F.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE/FACE PROTECTION:** Safety glasses with side shields or chemical splash goggles.

**SKIN PROTECTION:** Leather gloves and protective clothing as needed to avoid contact.

**RESPIRATORY PROTECTION:** Not normally required with good ventilation.

**ENGINEERING CONTROLS:** Normal room ventilation. Open doors, windows, and vents, use floor and ceiling fans to ventilate area during application.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT (°F):** 212

**SPECIFIC GRAVITY (WATER = 1):** 1.19

**VAPOR PRESSURE:** Same as water.

**VAPOR DENSITY (air=1):** Same as water.

**% VOLATILE BY WEIGHT:** 27

**pH:** 8.25

**APPEARANCE AND ODOR:** White colored paste with little or no odor.

**VOLATILE ORGANIC COMPOUNDS (AS SOLVENT):** 0 grams / liter.

## SECTION 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None.

## SECTION 11. TOXICOLOGICAL INFORMATION

No information available

## SECTION 12. ECOLOGICAL INFORMATION

No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations.

# MATERIAL SAFETY DATA SHEET

Supplier: **Johnsonite, Inc.** Product: **965 Flooring and Tread Adhesive**  
16910 Munn Road, Chagrin Falls, Ohio 44023  
24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

## SECTION 14. TRANSPORT INFORMATION

For domestic transportation purposes, this product is not designated as a hazardous material by the U.S. Department of Transportation.

## SECTION 15. REGULATORY INFORMATION

TSCA: The components of this product are listed on the TSCA inventory.

SARA TITLE III:

Section 311 and 312 Health and Physical Hazards:

Immediate	Delayed	Fire	Pressure	Reactivity
[ ]	[ ]	[ ]	[ ]	[ ]

Section 313 Chemicals:

<u>Chemical Name</u>	<u>CAS#</u>	<u>% by Weigh</u>
No reportable chemicals		

CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:

Solvent Free Product

SCAQMD Rule 1168 VOC Compliant

SCAQMD Rule 443.1: Grams of VOC per Liter of Material < 10 gram/liter

Grams of VOC per Liter of Coating < 13 gram/liter

## SECTION 16. OTHER INFORMATION

HMIS RATINGS: Health = 1 Flammability = 0 Reactivity = 0

Personal Protective Equipment = B

Hazard rating scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Johnsonite believes the statements, technical information and recommendations contained herein are reliable. They are given without warranty or guarantee of any kind, expressed or implied.

DATE ISSUED: January 3, 2015

CONTACT: Don Styka

# ALTRO ECOFIX 20

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 07/17/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** ALTRO ECOFIX 20

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Eye Irrit. 2A H319  
Skin Sens. 1 H317  
Carc. 1B H350  
Repr. 2 H361  
STOT RE 1 H372  
Aquatic Acute 3 H402

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H402 - Harmful to aquatic life.

##### **Precautionary Statements (GHS-US)**

: P260 - Do not breathe vapors, mist, or spray.  
P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Rosin	(CAS No) 8050-09-7	10 - 30
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	1 - 5
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	0.1 - 1
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(nonylphenoxy)-, branched, sodium salt	(CAS No) 68891-39-4	1 - 5
Vinyl acetate	(CAS No) 108-05-4	0.1 - 1
Quartz*	(CAS No) 14808-60-7	0.1 - 1
Titanium dioxide*	(CAS No) 13463-67-7	0.1 - 1
Silica, cristobalite*	(CAS No) 14464-46-1	0.1 - 1

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

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### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Vinyl acetate (108-05-4)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (ppm)	4 ppm
Alberta	OEL STEL (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	15 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>

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<b>Alberta</b>	OEL TWA (ppm)	10 ppm
<b>British Columbia</b>	OEL STEL (ppm)	15 ppm
<b>British Columbia</b>	OEL TWA (ppm)	10 ppm
<b>Manitoba</b>	OEL STEL (ppm)	15 ppm
<b>Manitoba</b>	OEL TWA (ppm)	10 ppm
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (ppm)	15 ppm
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (ppm)	10 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL (ppm)	15 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA (ppm)	10 ppm
<b>Nova Scotia</b>	OEL STEL (ppm)	15 ppm
<b>Nova Scotia</b>	OEL TWA (ppm)	10 ppm
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (ppm)	20 ppm
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (ppm)	10 ppm
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL (ppm)	20 ppm
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (ppm)	10 ppm
<b>Ontario</b>	OEL STEL (ppm)	15 ppm
<b>Ontario</b>	OEL TWA (ppm)	10 ppm
<b>Prince Edward Island</b>	OEL STEL (ppm)	15 ppm
<b>Prince Edward Island</b>	OEL TWA (ppm)	10 ppm
<b>Québec</b>	VECD (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
<b>Québec</b>	VECD (ppm)	15 ppm
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (ppm)	10 ppm
<b>Saskatchewan</b>	OEL STEL (ppm)	15 ppm
<b>Saskatchewan</b>	OEL TWA (ppm)	10 ppm
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	60 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (ppm)	20 ppm
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (ppm)	10 ppm

### Rosin (8050-09-7)

<b>USA ACGIH</b>	ACGIH chemical category	dermal sensitizer
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>

### Quartz (14808-60-7)

<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>USA ACGIH</b>	ACGIH chemical category	A2 - Suspected Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)



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<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass) 0.3 mg/m <sup>3</sup> (total mass)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass) 0.3 mg/m <sup>3</sup> (total mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL
<b>Mica (12001-26-2)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (containing <1% Quartz-respirable dust)
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup> (containing <1% quartz)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable)
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable mass) 6 mg/m <sup>3</sup> (total mass)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable mass) 6 mg/m <sup>3</sup> (total mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable)
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-respirable dust)
<b>Saskatchewan</b>	OEL STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (respirable fraction)
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	20 mppcf
<b>Titanium dioxide (13463-67-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust)
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	5000 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction)
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable mass) 10 mg/m <sup>3</sup> (total mass)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable mass) 10 mg/m <sup>3</sup> (total mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)
<b>Saskatchewan</b>	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>

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Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	30 mppcf 10 mg/m <sup>3</sup>
<b>Silica, cristobalite (14464-46-1)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable mass) 0.15 mg/m <sup>3</sup> (total mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable mass) 0.15 mg/m <sup>3</sup> (total mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	150 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Beige Paste
Odor	: Not available
Odor Threshold	: Not available
pH	: 6.0 – 8.5
Evaporation Rate	: Same as water
Melting Point	: Not available

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Freezing Point	: ~32°F
Boiling Point	: ~212°F
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Same as water
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.2
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: 27,000 – 38,000 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.
VOC	: <12g/L

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

Vinyl acetate (108-05-4)	
LD50 Oral Rat	2900 mg/kg

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<b>LD50 Dermal Rabbit</b>	2335 mg/kg
<b>LC50 Inhalation Rat</b>	11400 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>ATE US (dust, mist)</b>	1.50 mg/l/4h
<b>Rosin (8050-09-7)</b>	
<b>LD50 Oral Rat</b>	7600 mg/kg
<b>LD50 Dermal Rabbit</b>	> 2500 mg/kg
<b>LC50 Inhalation Rat</b>	110 mg/m <sup>3</sup>
<b>Quartz (14808-60-7)</b>	
<b>LD50 Oral Rat</b>	> 5000 mg/kg
<b>LD50 Dermal Rat</b>	> 5000 mg/kg
<b>Titanium dioxide (13463-67-7)</b>	
<b>LD50 Oral Rat</b>	> 10000 mg/kg
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
<b>LD50 Oral Rat</b>	> 5000 mg/kg
<b>LD50 Dermal Rat</b>	> 2000 mg/kg
<b>LC50 Inhalation Rat</b>	> 5 mg/l/4h
<b>Vinyl acetate (108-05-4)</b>	
<b>IARC Group</b>	2B
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Quartz (14808-60-7)</b>	
<b>IARC Group</b>	1
<b>National Toxicology Program (NTP) Status</b>	Known Human Carcinogens.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Titanium dioxide (13463-67-7)</b>	
<b>IARC Group</b>	2B
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.
<b>Silica, cristobalite (14464-46-1)</b>	
<b>IARC Group</b>	1
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Harmful to aquatic life.

<b>Vinyl acetate (108-05-4)</b>	
<b>LC50 Fish 1</b>	14 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>LC 50 Fish 2</b>	15.04 (15.04 - 21.54) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Rosin (8050-09-7)</b>	
<b>EC50 Daphnia 1</b>	3.8 - 5.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
<b>LC50 Fish 1</b>	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
<b>EC50 Daphnia 1</b>	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**Persistence and Degradability** Not available

### Bioaccumulative Potential

<b>Vinyl acetate (108-05-4)</b>	
<b>Log Pow</b>	0.73

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

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### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(nonylphenoxy)-, branched, sodium salt (68891-39-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Vinyl acetate (108-05-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313	
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	1000
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Rosin (8050-09-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>Titanium dioxide (13463-67-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard
<b>Silica, cristobalite (14464-46-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard
<b>2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (25212-88-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Titanium dioxide (13463-67-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.


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<b>Vinyl acetate (108-05-4)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Quartz (14808-60-7)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Titanium dioxide (13463-67-7)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Silica, cristobalite (14464-46-1)</b>
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

### Canadian Regulations

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	
<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(nonylphenoxy)-, branched, sodium salt (68891-39-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Vinyl acetate (108-05-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class F - Dangerously Reactive Material
<b>Rosin (8050-09-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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<b>Titanium dioxide (13463-67-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Silica, cristobalite (14464-46-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 07/17/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

#### Party Responsible for the Preparation of This Document

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

# ALTRO ECOFIX 25

## Safety Data Sheet

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Revision Date: 07/17/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** ALTRO ECOFIX 25

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Eye Irrit. 2A H319  
Skin Sens. 1 H317  
Carc. 1B H350  
Repr. 2 H361  
STOT RE 1 H372  
Aquatic Acute 3 H402

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H402 - Harmful to aquatic life.

##### **Precautionary Statements (GHS-US)**

: P260 - Do not breathe vapors, mist, or spray.  
P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Rosin	(CAS No) 8050-09-7	10 - 30
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	3 - 7
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	1 - 5
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(nonylphenoxy)-, branched, sodium salt	(CAS No) 68891-39-4	0.5 - 1.5
Vinyl acetate	(CAS No) 108-05-4	0.1 - 1
Quartz*	(CAS No) 14808-60-7	0.1 - 1

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

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**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Vinyl acetate (108-05-4)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (ppm)	4 ppm
Alberta	OEL STEL (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	15 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	10 ppm
British Columbia	OEL STEL (ppm)	15 ppm

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<b>British Columbia</b>	OEL TWA (ppm)	10 ppm
<b>Manitoba</b>	OEL STEL (ppm)	15 ppm
<b>Manitoba</b>	OEL TWA (ppm)	10 ppm
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (ppm)	15 ppm
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (ppm)	10 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL (ppm)	15 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA (ppm)	10 ppm
<b>Nova Scotia</b>	OEL STEL (ppm)	15 ppm
<b>Nova Scotia</b>	OEL TWA (ppm)	10 ppm
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (ppm)	20 ppm
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (ppm)	10 ppm
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL (ppm)	20 ppm
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (ppm)	10 ppm
<b>Ontario</b>	OEL STEL (ppm)	15 ppm
<b>Ontario</b>	OEL TWA (ppm)	10 ppm
<b>Prince Edward Island</b>	OEL STEL (ppm)	15 ppm
<b>Prince Edward Island</b>	OEL TWA (ppm)	10 ppm
<b>Québec</b>	VECD (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
<b>Québec</b>	VECD (ppm)	15 ppm
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	35 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (ppm)	10 ppm
<b>Saskatchewan</b>	OEL STEL (ppm)	15 ppm
<b>Saskatchewan</b>	OEL TWA (ppm)	10 ppm
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	60 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (ppm)	20 ppm
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (ppm)	10 ppm
<b>Rosin (8050-09-7)</b>		
<b>USA ACGIH</b>	ACGIH chemical category	dermal sensitizer
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
<b>Quartz (14808-60-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>USA ACGIH</b>	ACGIH chemical category	A2 - Suspected Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass) 0.3 mg/m <sup>3</sup> (total mass)

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<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass) 0.3 mg/m <sup>3</sup> (total mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	: Liquid
<b>Appearance</b>	: Beige Paste
<b>Odor</b>	: Not available
<b>Odor Threshold</b>	: Not available
<b>pH</b>	: 6.0 – 8.5
<b>Evaporation Rate</b>	: Same as water
<b>Melting Point</b>	: Not available
<b>Freezing Point</b>	: ~ 32°F
<b>Boiling Point</b>	: ~212°F
<b>Flash Point</b>	: >200°F
<b>Auto-ignition Temperature</b>	: Not available
<b>Decomposition Temperature</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower Flammable Limit</b>	: Not available
<b>Upper Flammable Limit</b>	: Not available
<b>Vapor Pressure</b>	: Same as water
<b>Relative Vapor Density at 20 °C</b>	: Not available
<b>Relative Density</b>	: Not available
<b>Specific Gravity</b>	: 1.2
<b>Solubility</b>	: Not available
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: 15,000 – 21,000 cps
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact.

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**Explosion Data – Sensitivity to Static Discharge** : Not expected to present an explosion hazard due to static discharge.  
**VOC** : <12 g/L

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Vinyl acetate (108-05-4)</b>	
LD50 Oral Rat	2900 mg/kg
LD50 Dermal Rabbit	2335 mg/kg
LC50 Inhalation Rat	11400 mg/m <sup>3</sup> (Exposure time: 4 h)
ATE US (dust, mist)	1.50 mg/l/4h
<b>Rosin (8050-09-7)</b>	
LD50 Oral Rat	7600 mg/kg
LD50 Dermal Rabbit	> 2500 mg/kg
LC50 Inhalation Rat	110 mg/m <sup>3</sup>
<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 5 mg/l/4h

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<b>Quartz (14808-60-7)</b>	
<b>IARC Group</b>	1
<b>National Toxicology Program (NTP) Status</b>	Known Human Carcinogens.
<b>OSHA Hazard Communication Carcinogen List</b>	In OSHA Hazard Communication Carcinogen list.

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Harmful to aquatic life.

<b>Vinyl acetate (108-05-4)</b>	
<b>LC50 Fish 1</b>	14 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>LC 50 Fish 2</b>	15.04 (15.04 - 21.54) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Rosin (8050-09-7)</b>	
<b>EC50 Daphnia 1</b>	3.8 - 5.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
<b>LC50 Fish 1</b>	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
<b>EC50 Daphnia 1</b>	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**Persistence and Degradability** Not available

#### Bioaccumulative Potential

<b>Vinyl acetate (108-05-4)</b>	
<b>Log Pow</b>	0.73
<b>1,2-Propylene glycol (57-55-6)</b>	
<b>BCF Fish 1</b>	< 1
<b>Log Pow</b>	-0.92

**Mobility in Soil** Not available

#### Other Adverse Effects

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	
	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(nonylphenoxy)-, branched, sodium salt (68891-39-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Vinyl acetate (108-05-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313	
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	1000

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<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Rosin (8050-09-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Vinyl acetate (108-05-4)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
U.S. - Pennsylvania - RTK (Right to Know) List	

<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(nonylphenoxy)-, branched, sodium salt (68891-39-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Vinyl acetate (108-05-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class F - Dangerously Reactive Material

<b>Rosin (8050-09-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 07/17/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

#### Party Responsible for the Preparation of This Document

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2



# ALTROFIX 30 A

## Safety Data Sheet

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Revision Date: 07/17/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** ALTROFIX 30 A

#### Intended Use of the Product

Adhesive

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
Skin Sens. 1 H317  
Repr. 2 H361  
Aquatic Acute 3 H402  
Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H361 – Suspected of damaging fertility or the unborn child.  
H402 - Harmful to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P261 - Avoid breathing dust, mist, spray, vapors.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, and protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.

#### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

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**Unknown Acute Toxicity (GHS-US)** Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Product Identifier	% (w/w)
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer )	(CAS No) 102900-03-8	10 - 30
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	10 - 30
Alkyl (C12-14) glycidyl ether	(CAS No) 68609-97-2	5 - 10
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	1 - 5
Phenol, 4-nonyl-, branched	(CAS No) 84852-15-3	1 - 5
Quartz*	(CAS No) 14808-60-7	0.1 - 1

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.

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### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (dust, vapor, mist, spray).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

No use specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Quartz (14808-60-7)		
Mexico	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)

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Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Beige Paste
Odor	: Low Odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: 0 °C (32° F)
Boiling Point	: 204 - 218 °C (399.2 - 424.4 °F)
Flash Point	: > 93 °C (200 °F) Tag Closed Cup
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.4
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 55,000 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.
VOC	: <12 g/L

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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
LD50 Oral Rat	580 mg/kg
LD50 Dermal Rabbit	2031 mg/kg
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Quartz (14808-60-7)</b>	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
LC50 Fish 1	0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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EC50 Daphnia 1	0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	0.1351 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

**Persistence and Degradability** Not available

### Bioaccumulative Potential

<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
BCF Fish 1	271

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

### In Accordance with IMDG

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorohydrin); epoxy resin)

**Hazard Class** : 9

**Identification Number** : UN3082

**Packing Group** : III

**Label Codes** : 9

**EmS-No. (Fire)** : F-A

**EmS-No. (Spillage)** : S-F

**Marine pollutant** : Marine pollutant



### In Accordance with IATA

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorohydrin); epoxy resin)

**Packing Group** : III

**Identification Number** : UN3082

**Hazard Class** : 9

**Label Codes** : 9

**ERG Code (IATA)** : 9L



**In Accordance with TDG** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard Immediate (acute) health hazard
<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

# ALTROFIX 30 A

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 07/17/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

#### Party Responsible for the Preparation of This Document

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2



# ALTROFIX 30 B

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 07/23/2015

Version: 2.1

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** ALTROFIX 30 B

#### Intended Use of the Product

**Adhesive**

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Acute Tox. 3 (Oral) H301  
Acute Tox. 3 (Dermal) H311  
Skin Corr. 1B H314  
Eye Dam. 1 H318  
Skin Sens. 1 H317  
Aquatic Acute 2 H401  
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H301+H311 - Toxic if swallowed or in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H401 - Toxic to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P260 - Do not breathe vapors, spray, mist.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, face protection, eye protection.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Other Hazards

May be corrosive to respiratory tract.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Trimethylolpropane Polyoxypropylene Triamine	(CAS No) 39423-51-3	15 - 40
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin)	(CAS No) 68082-29-1	15 - 40
2,4,6-Tri(dimethylaminomethyl)phenol	(CAS No) 90-72-2	15 - 40
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	5 - 10
Bis[(dimethylamino)methyl]phenol	(CAS No) 71074-89-0	1 - 5
Triethylenetetramine	(CAS No) 112-24-3	1 - 5
Octylphenol ethoxylate	(CAS No) 9036-19-5	0.5 – 1.5

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if swallowed. Toxic in contact with skin.

**Inhalation:** May be corrosive to the respiratory tract. May cause respiratory irritation.

**Skin Contact:** Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None expected under normal conditions of use.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions. Thermal decomposition generates corrosive vapors.

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### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Triethylenetetramine (112-24-3)		
Ontario	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Ontario	OEL TWA (ppm)	0.5 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

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**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Dark Pourable Liquid
Odor	: Amine Odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: 0 °C (32 °F)
Boiling Point	: > 126 °C (260 °F)
Flash Point	: > 93 °C (200 °F) (Tag Closed Cup)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.0
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 600 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.
VOC	: <12 g/L

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions. Thermal decomposition generates corrosive vapors.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

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## Safety Data Sheet

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

#### LD50 and LC50 Data:

ATE US (oral)	293.18 mg/kg body weight
ATE US (dermal)	759.23 mg/kg body weight

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May be corrosive to the respiratory tract. May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None expected under normal conditions of use.

#### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Trimethylolpropane Polyoxypropylene Triamine (39423-51-3)</b>	
ATE US (oral)	100.00 mg/kg body weight
ATE US (dermal)	300.00 mg/kg body weight
<b>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin) (68082-29-1)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Triethylenetetramine (112-24-3)</b>	
LD50 Oral Rat	2500 mg/kg
LD50 Dermal Rabbit	550 mg/kg
<b>2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)</b>	
LD50 Oral Rat	1000 mg/kg
LD50 Dermal Rat	1280 mg/kg
<b>Bis[(dimethylamino)methyl]phenol (71074-89-0)</b>	
ATE US (oral)	500.00 mg/kg body weight
ATE US (dermal)	1,100.00 mg/kg body weight
<b>Octylphenol ethoxylate (9036-19-5)</b>	
LD50 Oral Rat	1700 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

<b>Triethylenetetramine (112-24-3)</b>	
LC50 Fish 1	570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])

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EC50 Daphnia 1	31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
<b>Octylphenol ethoxylate (9036-19-5)</b>	
LC50 Fish 1	7.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	8.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
ErC50 (algae)	0.21 mg/l (Exposure time: 96 h - Species: Selenastrum Green Algae)

**Persistence and Degradability** Not available

### Bioaccumulative Potential

<b>Triethylenetetramine (112-24-3)</b>	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	-1.4

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

**Proper Shipping Name** : CORROSIVE LIQUIDS, TOXIC, N.O.S. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Hazard Class** : 8

**Identification Number** : UN2922

**Label Codes** : 8,6.1

**Packing Group** : II

**ERG Number** : 154



### Please note there is a DOT exemption per below:

**Limited Quantities** : Packages having a volumetric capacity of no more than 1.0L/0.3 gallons and meeting the requirements of 49 CFR 173.154(b) are exempt from many of the DOT requirements for this classification. Each package must display the following limited quantity label.



### In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Hazard Class** : 8

**Identification Number** : UN2922

**Packing Group** : II

**Label Codes** : 8,6.1

**EmS-No. (Fire)** : F-A

**EmS-No. (Spillage)** : S-B



### In Accordance with IATA

**Proper Shipping Name** : Corrosive liquid, toxic, n.o.s. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

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## Safety Data Sheet

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**Packing Group** : II  
**Identification Number** : UN2922  
**Hazard Class** : 8  
**Label Codes** : 8,6.1  
**ERG Code (IATA)** : 8P



### In Accordance with TDG

**Proper Shipping Name** : CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Packing Group** : II  
**Hazard Class** : 8  
**Identification Number** : UN2922  
**Label Codes** : 8,6.1



### Please note there is a TDG exemption per below:

**Limited Quantities** : Packages having a volumetric capacity of no more than 1.0L and meeting the requirements of Transportation of Dangerous Goods Part 1 Section 1.17 Limited Quantities are exempt from many of the TDG requirements for this classification. Each package must display the following limited quantity label.



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard
<b>Trimethylolpropane Polyoxypropylene Triamine (39423-51-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin) (68082-29-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Triethylenetetramine (112-24-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Octylphenol ethoxylate (9036-19-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Triethylenetetramine (112-24-3)</b>
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

### Canadian Regulations

WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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# ALTROFIX 30 B

## Safety Data Sheet

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### Trimethylolpropane Polyoxypropylene Triamine (39423-51-3)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class E - Corrosive Material Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
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### Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin) (68082-29-1)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
----------------------	---

### Triethylenetetramine (112-24-3)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 0.1 %

WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
----------------------	--

### 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
----------------------	---

### Bis[(dimethylamino)methyl]phenol (71074-89-0)

WHMIS Classification	Class E - Corrosive Material
----------------------	------------------------------

### Propanol, oxybis-, dibenzoate (27138-31-4)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
----------------------	---

### Octylphenol ethoxylate (9036-19-5)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
----------------------	---

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<b>Revision Date</b>	: 07/23/2015
<b>Other Information</b>	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document



# ALTROFIX 30 B

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

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Altro Floors, Inc.  
80 Industrial Way  
Wilmington, MA 01887  
978-657-6464

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

**Safety)Data)Sheet)**

According)To)Federal)Register)\/)Vol.)77,)No.)58)\/)Monday,)March)26,)2012)\/)Rules)And)Regulations  
Revision)Date:))1/30/2015 Date)of)issue:))03/19/2015

Version:)

**SECTION)1:)IDENTIFICATION)**

**1.1.) Product)Identifier)–)825647PM**

Product)Form:–)Mastic)  
Product)Name:–)Amtico)373)

**1.2.) Intended)Use)of)the)Product)))**  
Use)of)the)substance/mixture:– Adhesive)

**1.3.) Name,)Address,)and)Telephone)of)the)Responsible)Party)**

Mannington)Mills,)Inc.)  
P.O.)Box)30)–)Route)45)  
75)Mannington)Mills)Road)  
Salem,)New)Jersey)08079)U.S.A.)  
General)Information:(856)935-3000))

**1.4.) Emergency)Telephone)Number)))**

Emergency)Numbers)) : ) Product/Medical)Emergency)Phone)Number)(24)Hours):(866)359-5602  
Transport)Emergency:)  
Within)the)U.S.)–)CHEMTREC:(800)424-9300))  
Outside)the)U.S.)–)CHEMTREC:)+1-703-527-3887))

**SECTION)2:)HAZARDS)IDENTIFICATION)**

**2.1.) Classification)of)the)Substance)or)Mixture)**

GHS)Classification:–)Skin)Sensitisation)Category)1A)

Full)text)of)H-phrases:see)section)16)

**2.2.) Label)Elements)**

GHS-US)Labeling)

Hazard)Pictograms)(GHS-US)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Hazard Symbols:**



Signal)Word)(GHS-US)–)Warning)

Hazard)Statements)(GHS-US)–)May)cause)an)allergic)skin)reaction.

Precautionary)Statements)(GHS-US)Avoid)breathing)dust/fume/gas/mist/vapours/spray.)Contaminated)work) :  
clothing)should)not)be)allowed)out)of)the)workplace.)Wear)protective)gloves/protective)clothing/eye) :  
protection/face)protection.)

**2.3.) Other)Hazards)))Disposal:)Dispose)of)contents/container)in)accordance)with)local/regional/national/international regulation)for)hazardous)wastes.)**

**SECTION)3:)COMPOSITION/INFORMATION)ON)INGREDIENTS)**

**3.1.) Substance)**

Chemical)Name)	CAS)#)	PERCENT)	Classification)	Note))
Styrene-acrylic)copolymer)	25767-47-9)	5)- 10)	Eye)Irrit.)2;)H319)	)
Rosin/rosin)derivatives)		1)- 5)	Skin)Sens.)1;)H317)	)

**\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.**

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

Full)text)of)H-phrases:)see)section)16)

**SECTION)4:)FIRST)AID)MEASURES)**

4.1.) Description)of)First)Aid)Measures)))  
IF)IN)EYES:))Flush)eyes)with)plenty)of)water)for)at)least)20)minutes)retracting)eyelids)often.)Tilt)the)head)to)prevent)chemical  
from)transferring)to)the)uncontaminated)eye.)Get)immediate)medical)attention.))  
IF)ON)SKIN:))Wash)with)soap)and)water.)Remove)contaminated)clothing)and)launder.)Get)medical)attention)if)irritation  
develops)or)persists.))  
IF)INHALED:))Remove)to)fresh)air.)Call)a)physician)if)symptoms)persist.)))  
IF)SWALLOWED:))Do)not)induce)vomiting.)Seek)medical)attention)if)symptoms)develop.)Provide)medical)care)provider)with  
this)MSDS)  
)  
)  
)

**SECTION)5:)FIRE-FIGHTING)MEASURES)**

5.1.) Extinguishing)Media)))  
Suitable)Extinguishing)Media:))Use)water)spray,)foam,)dry)chemical)or)carbon)dioxide.)  
Unsuitable)Extinguishing)Media:))  
5.2.) Special)Hazards)Arising)From)the)Substance)or)Mixture)))  
Fire)/Explosion)Hazard:))There)is)a)possibility)of)pressure)buildup)in)closed)containers  
when)heated.)Water)spray)may)be)used)to)cool)the)containers)  
Reactivity:))  
5.3.) Advice)for)Firefighters)))  
Precautionary)Measures)Fire:))  
Firefighting)Instructions:))Persons)exposed)to)products)of)combustion)should)wear)self-  
contained)breathing)apparatus)and)full)protective)equipment.)  
)  
)  
Other)Information:))HAZARDOUS)COMBUSTION)PRODUCTS:))Carbon)dioxide,)Carbon)monoxide)Aldehydes)Nitrogen)containing  
gases))  
)

**SECTION)6:)ACCIDENTAL)RELEASE)MEASURES)**

6.1.) Personal)Precautions,)Protective)Equipment)and)Emergency)Procedures)  
General)Measures:))No)adverse)health)effects)expected)from)the)clean-up)of)spilled)material.)Follow)personal)protective  
equipment)recommendations)found)in)Section)8)of)this)MSDS.))  
Methods)for)Cleaning)Up:))Avoid)creating)dusts.)Cover)material)with)absorbent)and)moisten)and)collect)for)disposal.)  
Dike)if)necessary,)contain)spill)with)inert)absorbent)and)transfer)to)containers)for)disposal.)Keep)spilled)product)out)of)  
sewers,)watersheds,)or)water)systems.)  
Transport)Emergency)Phone)Number)(CHEMTREC):)1-800-424-9300)

6.24.) Reference)to)Other)Sections))

**SECTION)7:)HANDLING)AND)STORAGE)**

7.1.) Precautions)for)Safe)Handling)))  
Additional)Hazards)When)Processed:))No)special)handling)instructions)due)to)toxicity.)Avoid)breathing)material.)This)product  
contains)an)ingredient)that)may)release)formaldehyde)when)in)contact)with)strong)acids.)  
Hygiene)Measures:))  
7.2.) Conditions)for)Safe)Storage,)Including)Any)Incompatibilities)))  
Technical)Measures:))  
Storage)Conditions:))Store)in)a)cool,)dry)place.)Protect)from)freezing  
Consult)the)Technical)Data)Sheet)for)specific)storage)instructions)  
Incompatible)Products:))

**SECTION)8:)EXPOSURE)CONTROLS/PERSONAL)PROTECTION)**

**8.1.) Control)Parameters)**  
**EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

**8.2.) Exposure)Controls))**

- VENTILATION:)) Use)local)exhaust)ventilation)or)other)engineering)controls)to)minimize)exposures.)))] :
- EYE)PROTECTION:)) Wear)safety)glasses)when)handling)this)product.)))]
- SKIN)PROTECTION:)) Avoid)skin)contact)by)wearing)chemically)resistant)gloves.)))]
- GLOVES:)) Not)normally)required.))Use)nitrile)gloves)if)conditions)warrant.)))]
- RESPIRATORY)PROTECTION:)) Respiratory)protection)may)be)required)to)avoid)overexposure)when)handling) this)product.)Use)a)respirator)if)general)room)ventilation)is)not)available)or)sufficient)to)eliminate)symptoms.) NIOSH)approved)air)purifying)respirator)with)dust/mist)filter.)))]
- Respirators)should)be)selected)by)and)used)following)requirements)found)in)OSHA's)respirator)standard)(29)CFR) 1910.134.)))] :

**SECTION)9:)PHYSICAL)AND)CHEMICAL)PROPERTIES)**

**9.1.) Information)on)Basic)Physical)and)Chemical)Properties)**

PHYSICAL STATE:	Semi-solid
COLOR:	Tan
ODOR:	Slight Aromatic
ODOR THRESHOLD:	Not established
pH:	8.5
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	9.75
SPECIFIC GRAVITY:	1.170
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.

Safety)Data)Sheet)

According)To)Federal)Register)\\Vol.)77,)No.)58)\\Monday,)March)26,)2012)\\Rules)And)Regulations  
Revision)Date)\\1/30/2015 Date)of)issue)\\03/19/2015

SOLIDS (% by weight): 54.0  
 VOC, weight percent 0.20  
 VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined) 7g/liter of material

**SECTION)10:)STABILITY)AND)REACTIVITY)**

- 10.1.)))))Reactivity:))
- 10.2.)))))Chemical)Stability:)Stable)under)normal)conditions)
- 10.3.)))))HAZARDOUS)POLYMERIZATION:) Will)not)occur.))
- 10.5.)))))Incompatible)Materials:)Not)established)))
- 10.6.)))))Hazardous)Decomposition)Products:)Carbon)monoxide,)carbon)dioxide)Nitrogen)containing)gases)))

**SECTION)11:)TOXICOLOGICAL)INFORMATION)**

11.1.) Information)On)Toxicological)Effects)

COMPONENT NAME	LD50/LC50
Rosin ester	ORAL LD50 RAT > 2,000 MG/KG
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG

This)product)is)a)mixture.)Unless)noted,)the)information)below)is)based)on)components.)  
 Skin)corrosion)\\irritation:)Continued)or)prolonged)contact)may)irritate)the)skin)and)cause)a)skin)rash)(dermatitis).))  
 Serious)eye)damage)\\irritation:)Can)cause)moderate)irritation,)tearing)and)reddening.)))))  
 Respiratory)\\skin)sensitization:)May)cause)an)allergic)skin)reaction.))  
 Germ)cell)mutagenicity:)No)data)available.))  
 Carcinogenicity:)No)data)available.))  
 Reproductive)toxicity:)No)data)available.))  
 Specific)target)organ)toxicity-single)exposure:)No)data)available.))  
 ))Respiratory)irritation)\\Narcotic)effects:)No)data)available.))  
 Specific)target)organ)toxicity-repeated)exposure:)No)data)available.)Target)organs)potentially)affected)by)exposure:)Lungs)  
 Skin)Aspiration)hazard:)No)data)available.))  
 ))  
 Medical)Conditions)Aggravated)by)Exposure:)Skin)disease)including)eczema)and)sensitization,)Lung)disease))  
 ))

**SECTION)12:)ECOLOGICAL)INFORMATION)**

- 12.1.) Toxicity)-)No)ecological)information)available)for)this)product.))
- 12.2.) Persistence)and)Degradability)))

Persistence)and)Degradability)	No)data)available.))
--------------------------------	----------------------

- 12.3.) Bioaccumulative)Potential)No)data)available.)
- 12.4.) Mobility)in)Soil)No)data)available.))

**12.5.) Other)Adverse)Effects))  
Other)Information)**

)

**This product has not been tested for ecological effects. Relevant information for components is listed below:**

Rosin)ester.	Acute)Toxicity)(Fish): 96)Hr)LC50)Brachydanio)rerio):>400)mg/L)[static]) Acute)Toxicity)(Daphnia):)48)Hr)EC50)Daphnia)magna):259)mg/L) Acute)Toxicity)(Algae):)72)Hr)EC50)Pseudokirchneriella)subcapitata):>1000)mg/L
Urea	Acute)Toxicity)(Fish): 96)Hr)LC50)Poecilia)reticulata):16200)- 18300)mg/L) Acute)Toxicity)(Daphnia):)24)Hr)EC50)Daphnia)magna)Straus):>10000)mg/L;)48)Hr) EC50)Daphnia)magna):3910)mg/L)[Static]) Acute)Toxicity)(Algae):)Not)established

**SECTION)13:)DISPOSAL)CONSIDERATIONS**

**13.1.) Waste)treatment)methods)))**

Additional)Information:)))

To)the)best)of)our)knowledge,)this)product)does)not)meet)the)definition)of)hazardous)waste)under)the)U.S.)EPA)Hazardous)Waste)Regulations)40)CFR)261.)Solidify)and)dispose)of)in)an)approved)landfill.)Consult)state,)local)or)provincial)authorities)for)more)restrictive)requirements.)))

**SECTION)14:)TRANSPORT)INFORMATION**

**14.1.)In)Accordance)with)DOT) )))))(NOT REGULATED)\***

- Proper)Shipping)Name))) : )
- Hazard)Class) : )
- Identification)Number))) : )
- Label)Codes) : )
- Packing)Group))) : )
- ERG)Number) : )

**14.2.)In)Accordance)with)IMDG) )))))(NOT REGULATED)\***

- Proper)Shipping)Name))) : )
- Hazard)Class) : )
- Identification)Number))) : )
- Packing)Group))) : )
- Label)Codes) : )
- EmS-No.) (Fire)) : )
- EmS-No.) (Spillage)) : )
- MFAG)Number) : )

**14.3.)In)Accordance)with)IATA) )))))(NOT REGULATED)\***

- Proper)Shipping)Name))) : )
- Packing)Group))) : )
- Identification)Number))) : )
- Hazard)Class) : )
- Label)Codes) : )
- ERG)Code)(IATA)) : )

**\*Consult Bill of Lading for transportation information.**

**SECTION)15:)REGULATORY)INFORMATION)**

**15.1)US)Federal)Regulations))**

U.S.)EPA)TSCA:)) This)product)is)in)compliance)with)the)Toxic)Substances)Control  
Act's)Inventory)requirements.))

CANADIAN)CEPA)DSL:)) This)product)contains)a)component)that)is)not)on)the)DSL.)If)you  
are)the)importer)of)this)product)into)Canada,)contact)H.B.)Fuller  
for)chemical)tracking)and)notification)information.))

EUROPEAN)REACH:)) As)a)result)of)the)introduction)of)REACH)into)Europe,)this)product  
cannot)be)imported)into)Europe)unless)the)REACH)requirements  
are)met.))

AUSTRALIA)AICS:)) This)product)is)in)compliance)with)the)Australian)Inventory)of))  
Chemical)Substances)requirements.))

If)you)need)more)information)about)the)inventory)status)of)this)product)call)651-236-5858.))

)

This)product)may)contain)chemical)substances)that)are)regulated)for)export)by)various)government)agencies)(such)as)the  
Environmental)Protection)Agency,)the)Bureau)of)Industry)and)Security,)or)the)Drug)Enforcement))  
Administration,)among)others).)Before)exporting)this)product)from)the)USA)or)Canada,)we)recommend)you)contact)us)at  
reg.request@hbfuller.com)to)request)an)export)review.))

)

**FEDERAL)REPORTING))**

EPA)SARA)Title)III)Section)313))

Unless)listed)below,)this)product)does)not)contain)toxic)chemical(s)subject)to)the)reporting)requirements)of)section)313)of)Title  
III)of)the)Superfund)Amendments)and)Reauthorization)Act)of)1986)(SARA))and)40)CFR)part)372.))EPA)has)advised)that)when)a)  
percentage)range)is)listed)the)midpoint)may)be)used)to)fulfill)reporting)obligations.))

Chemical)Name))	CAS#))	)%)
)	)	)

)

WHMIS)STATUS:)Unless)listed)below,)this)product)is)not)controlled)under)the)Canadian)Workplace)Hazardous)Materials)  
Information)System.))

D2A)D2B)D1B)

)

**STATE)REPORTING))**

Proposition)65,)The)Safe)Drinking)Water)and)Toxic)Enforcement)Act)of)1986:))

Unless)listed)below,)this)product)does)not)contain)known)levels)of)any)chemical)known)to)the)State)of)California)to)cause)  
cancer)or)reproductive)harm.))

Chemical Name/List	CAS	Percent
Quartz (Carcinogen)	14808-60-7	0.01 - 0.1
Dibromoacetonitrile (Carcinogen)	3252-43-5	< 10 ppm
Acetaldehyde (Carcinogen)	75-07-0	< 10 ppm
1,4-Dioxane (Carcinogen)	123-91-1	< 10 ppm
Acrylamide (Carcinogen)	79-06-1	< 10 ppm
Ethyl acrylate (Carcinogen)	140-88-5	< 10 ppm
C.I. Direct blue 15 (Carcinogen)	2429-74-5	< 10 ppm
Acrylonitrile (Carcinogen)	107-13-1	< 10 ppm
Acrylamide (Developmental toxin)	79-06-1	< 10 ppm
Acrylamide (Male reproductive toxin)	79-06-1	< 10 ppm

)

)

Substances)of)Very)High)Concern)(SVHC)Content:))

Unless)listed)below,)this)product)does)not)contain)SVHC's.))

)

Safety)Data)Sheet)

According)To)Federal)Register)\\Vol.)77,)No.)58)\\Monday,)March)26,)2012)\\Rules)And)Regulations  
Revision)Date:))1/30/2015 Date)of)issue:))03/19/2015

**SECTION)16:)OTHER)INFORMATION,)INCLUDING)DATE)OF)PREPARATION)OR)LAST)REVISION)**

Revision)Date) :

Other)Information) :

SDS)VERSION)DATE:)) 01-30-2015))

)

This)Safety)Data)Sheet)is)prepared)to)comply)with)the)United)States)Occupational)Safety)and)Health)Administration)(OSHA))  
Hazard)Communication)Standard)(29)CFR)1910.1200)and)the)Canadian)Workplace)Hazardous)Materials)Information)System  
(WHMIS).))

HMIS)RATING:))HEALTH)--1)FLAMMABILITY)--0)REACTIVITY)--0))

See)SECTION)8:)EXPOSURE)CONTROLS/PERSONAL)PROTECTION)for)personal)protective)equipment)recommendations.))

)

Prepared)by:)The)Global)Regulatory)Department))

Phone:)651-236-5842))

)

The)information)and)recommendations)set)forth)herein)are)believed)to)be)accurate.))Because)some)of)the)information)is)  
derived)from)information)provided)to)H.B.)Fuller)Construction)Products,)Inc.)from)its)suppliers,)and)because)H.B.))  
Fuller)Construction)Products,)Inc.)has)no)control)over)the)conditions)of)handling)and)use,)H.B.)Fuller)Construction)Products,)  
Inc.)makes)no)warranty,)expressed)or)implied,)regarding)the)accuracy)of)the)data)or)the)results)to)be)obtained)from)the)use)  
thereof.))The)information)is)supplied)solely)for)your)information)and)consideration,)and)H.B.)Fuller)Construction)Products,)  
Inc.)assumes)no)responsibility)for)use)or)reliance)thereon.))It)is)the)responsibility)of)the)user)of)H.B.)Fuller)Construction)  
Products,)Inc.)products)to)comply)with)all)applicable)federal,)state)and)local)laws)and)regulations.)

)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS)US)(GHS)HazCom))





**SECTION 1: Identification and Company Details**

Product Name: Anchor1245 Carpet Pad Adhesive  
Product Code: ANCHOR1245

Manufacturer/ Supplier: Roberts Consolidated Industries, Inc.  
Address: 300 Cross Plains Blvd.  
Dalton, GA 30721

Emergency Phone: (800) 424-9300 (24-hour Response / CHEMTREC)  
Product Information: (706) 277-5294

Recommended Use: Adhesive

**SECTION 2: Hazard(s) Identification**

OSHA / HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture: Flammable Liquid- Category 2  
Skin irritant- Category 2  
Eye irritant- Category 2A  
Aspiration hazard- Category 1

Signal Word: Danger  
Hazard Statements: Highly flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation

Hazard Pictograms:



Precautionary Statements: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Use personal protective equipment as required.  
Do NOT induce vomiting.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
IF ON SKIN: Wash with soap and water.  
IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
IF exposed or concerned: Get medical advice/ attention

If irritation or a rash occurs: Get medical advice/ attention  
 In case of fire: Use fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish  
 Store locked up  
 Store in a well ventilated place. Keep container tightly closed and cool.  
 Dispose of contents/ container in accordance with local authority requirements. Incineration is the preferred method of disposal.

SECTION 3:	Composition / Information on Ingredients	Weight %	CAS #
	Hexane	30%	110-54-3
	Aliphatic Petroleum Distillates	24%	64742-89-8

**SECTION 4: First-Aid Measures**

**Inhalation:** Move victim to fresh air. Consult physician if necessary.  
**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Consult physician if necessary.  
**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if possible. Consult physician if necessary.  
**Ingestion:** Do not induce vomiting. Wash mouth with water. Consult physician.  
**Note to Physician:** *Eyes:* Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation. *Skin:* This compound can cause skin irritation. *Ingestion:* Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. *Respiratory:* Treatment is essentially symptomatic. Remove individual with symptoms from exposure and assist in breathing if necessary.

**SECTION 5: Fire-Fighting Measures**

**Flash Point:** -22°C (-8°F)  
**LEL:** 1.00

**Extinguishing Media:** In case of fire use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Hazardous Combustion Products:** No particular hazards known.

**Protection of Firefighters:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Water may not effectively extinguish fire; however, it should be used to keep fire- exposed containers and surfaces cool and prevent explosive rupture.

**SECTION 6: Accidental Release Measures**

**Personal Precautions:** Use protective gloves, goggles and suitable protective clothing. Ventilate the area with fresh air.  
 Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

**Environmental Precautions:** Do not allow product to get into drains, soil, or surface water.

**Methods of Clean-up:** Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material.  
 Mix in sufficient absorbent until it appears dry. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected

**SECTION 7: Handling and Storage**

**Handling Precautions:** Provide good ventilation. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**Storage:** Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C/ 40°F and 86°F. Protect from freezing and direct sunlight. Store away from oxidizing agents.

**SECTION 8: Exposure Control / Personal Protection**

**Exposure Guidelines:** Not determined  
**Engineering Controls:** Provide adequate ventilation.  
**Personal Protective Equipment:**

**Skin Protection** - Permeation resistant gloves (butyl rubber, nitrile rubber, PVC or polyvinyl alcohol).  
**Eye/Face Protection** - Glasses with side shields, chemical splash goggles and/or face shield.

<u>Chemical Name / CAS No.</u>	<u>OSHA Exposure Limits</u>	<u>ACGIH Exposure Limits</u>	<u>Other Exposure</u>
<u>Limits</u>			
Hexane/ 110-54-3	500ppm TWA; 1800mg/m3 TWA	50ppm TWA	NIOSH: 50ppm TWA; 180mg/m3 TWA
Aliphatic Petroleum Distillates/64742-89-8	Not Established	Not Established	Not Established

**SECTION 9: Physical and Chemical Properties**

**Appearance:** Light tan liquid  
**Odor:** Solvent odor  
**Relative Density:** .77  
**Odor Threshold:** Not available  
**Solubility:** Negligible  
**pH:** No data  
**Partition Coefficient:** n-octanol/water; Not determined  
**Melting Point:** Not determined  
**Freezing Point:** Not determined  
**Auto-ignition Temperature:** No data  
**Flash Point:** -22°C/ -8°F  
**Decomposition Temperature:** Not determined  
**Evaporation Rate:** Not determined  
**Viscosity:** Not determined  
**Flammability (Solid/Gas):** Not applicable  
**Upper/Lower Flammability:** Not determined  
**VOC Content:** 520 grams/liter  
**Vapor Pressure (mmHg at 20c):** 124  
**Boiling Point:** 69°C/156° F

**SECTION 10: Stability and Reactivity**

**Chemical Stability:** Stable under normal temperature conditions and recommended use.  
**Conditions to Avoid:** Excessive heat (sparks and/or flames), direct sunlight and/or frost.  
**Materials to Avoid:** Strong oxidizing agents.

**SECTION 11: Toxicological Information**

**Component Toxicity**

110-54-3 Hexane  
 Dermal LD50: 3,000mg/kg (Rabbit)  
 64742-89-8 Aliphatic Petroleum Distillates  
 Oral LD50:5,000 mg/kg (Mouse) Dermal LD50:3,000 mg/kg (Rabbit)

**Acute toxicity:**

**Ingestion:** Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.  
**Inhalation:** Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.  
**Skin Contact:** Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.  
 Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**SECTION 12: Ecological Information**

**Component Ecotoxicity**

ALPHATIC PETROLEUM DISTILLATES (A.P.D., LACOLENE) 72 Hr EC50 Pseudokirchneriella subcapitata : 4,700 mg/L

Hexane 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static] 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static] Pimephales promelas (fathead minnow) - 2.5 mg/l - 96.0 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 3,878.00 mg/l - 48 h Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 12,840.00 mg/l - 3 h EC50 - SKELETOMA - 0.30 mg/l - 8 h

**Mobility and Bioaccumulation Potential:** Not determined

**Degradation:** Not determined  
**Aquatic Toxicity:** Not determined  
**LC50 – 24 hour (Static):** Not determined

**SECTION 13: Disposal Considerations**

**Disposal:** Dispose of waste and residues in accordance with local authority requirements. Incineration is the preferred method of disposal.

**Wastes or Residues:** Same as above.

**SECTION 14: Transport Information**

**Road:** DOT Proper Shipping Name: (49CFR172.101-102): Adhesives (containing flammable solvents)  
 DOT Packing Group: II  
 DOT Hazard Class: 3  
 DOT Label: (49CFR172.101-102): Flammable  
 UN Number: 1133  
 D.O.T. PLACARDS REQUIRED (49CFR172.504): Flammable  
 Bill of lading Description: Adhesive, N.O.S (Hexane)

**Ocean:** Proper Shipping Name: Adhesives  
 Sea – IMO/IMDG Class: 3  
 UN Number: 1133  
 Packing Group: II

**Air:** Proper Shipping Name: Adhesives  
 Air – ICAO/IATA Class: 3  
 UN Number: 1133  
 Packing Group: II

**SECTION 15: Regulatory Information**

**Status on Substance Lists:** The concentrations shown in this document are maximum levels (weight %) to be used for regulations.

**TSCA:** The components of this product are contained on the chemical substance inventory list

**OSHA:** This product is a 'Hazardous Chemical' as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**IARC:** Not carcinogenic  
**OSHA PEL's** None

**Federal EPA:** Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA): Requires notification of the national response center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% by Weight	RQ
Hexane	110-54-3	30	5000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product at level

which could require reporting under this statute are:

Chemical Name	CAS Number	% by Weight	RQ
None	None	None	None

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known- **None**

**NJ RTK**

110-54-3 Hexane

**Pennsylvania RTK**

110-54-3 Hexane

**SARA 302** Extremely Hazardous Substances - None

**Massachusetts RTK**

110-54-3 Hexane

**EPA Hazard Classifications:**

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDSs that are distributed for this material. Components present in this product at level which could require reporting under the statute are:

Hexane/ 110-54-3

**Canada DSL:** All components are on the DSL list or exempt.

**California Proposition 65:** Does not contain any listed chemical to the best of our knowledge.

**SECTION 16: Other Information**

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

**HMIS RATING: HEALTH-2, FLAMMABILITY-4, REACTIVITY-0, PERSONAL PROTECTION- B.**

Prepared by: Roberts Consolidated Product Safety & Regulatory Compliance Group, (706) 277-5294

The information herein is given in good faith, but no warranty expressed or implied is made. Roberts Consolidated urges users of this product to evaluate its suitability and compliance with local regulations as Roberts Consolidated cannot foresee the final use of the product, nor the final location of usage.

Date of issue: 5/27/15



# Safety Data Sheet

Revision Date: 05/27/2015

## SECTION 1: Identification and Company Details

**Product Name:** ANCHOR 15 Carpet Seam Sealer  
**Product Code:** ANCHOR15OTC

**Manufacturer/ Supplier:** Roberts Consolidated Industries, Inc.  
**Address:** 300 Cross Plains Blvd.  
Dalton, GA 30721

**Emergency Phone:** (800) 424-9300 (24-hour Response / CHEMTREC)  
**Product Information:** (706) 277-5294

**Recommended Use:** Adhesive

## SECTION 2: Hazard(s) Identification

**OSHA / HCS Status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Classification of the substance or mixture:** Flammable liquid- Category 2  
Skin corrosive- Category 2  
Eye corrosive- Category 2A (Eye irritant: Subcategory 2A)  
Carcinogenicity- Category 1A  
Reproductive toxin- Category 1A  
Aspiration hazard- Category 1

**Signal Word:** Danger  
**Hazard Statements:** Highly flammable liquid and vapour  
May be fatal if swallowed and enters airways  
Causes skin irritation  
Causes serious eye irritation  
May cause cancer  
May damage fertility or the unborn child



**Hazard Pictograms:**

**Precautionary Statements:** Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Keep away from heat/sparks/open flames/hot surfaces- No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wash hands thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Specific treatment – treat symptomatically.

Take off contaminated clothing and wash before reuse  
 Wash contaminated clothing before reuse.  
 IF ON SKIN: Wash with soap and water.  
 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 If skin irritation occurs: Get medical advice/attention.  
 If skin irritation or a rash occurs: Get medical advice/attention.  
 Get medical advice/attention. Call a POISON CENTER or doctor/physician if needed.  
 Store locked up  
 Dispose of contents/container in accordance with local authority requirements

**SECTION 3: First-Aid Measures**

	<u>Weight %</u>	<u>CAS #</u>
Methyl Alcohol	50.00%	67-56-1
Toluene	12.00%	108-88-3

**SECTION 4: First-Aid Measures**

**Inhalation:** Move victim to fresh air. Consult physician if necessary.  
**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Consult physician if necessary.  
**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if possible. Consult physician if necessary.  
**Ingestion:** Do not induce vomiting. Wash mouth with water. Consult physician.  
**Note to Physician:** *Eyes:* Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation. *Skin:* This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. *Ingestion:* Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. *Respiratory:* Treatment is essentially symptomatic. Remove individual with symptoms from exposure and assist in breathing if necessary.

**SECTION 5: Fire-Fighting Measures**

**Flash Point:** 4°C (39°F)  
**LEL:** 1.00

**Extinguishing Media:** In case of fire use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Hazardous Combustion Products:** Aldehydes, hydrocarbons, carbon monoxide, carbon dioxide

**Protection of Firefighters:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Water may not effectively extinguish fire; however, it should be used to keep fire- exposed containers and surfaces cool and prevent explosive rupture.

**SECTION 6: Accidental Release Measures**

**Personal Precautions:** Use protective gloves, goggles and suitable protective clothing. Ventilate the area with



fresh air. Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

**Environmental Precautions:** Do not allow product to get into drains, soil, or surface water.

**Methods of Clean-up:** Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

### SECTION 7: Handling and Storage

**Handling Precautions:** Provide good ventilation. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**Storage:** Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C/ 40°F and 86°F. Protect from freezing and direct sunlight. Store away from oxidizing agents.

### SECTION 8: Exposure Control / Personal Protection

**Exposure Guidelines:** Not determined

**Engineering Controls:** Provide adequate ventilation.

**Personal Protective Equipment:**

**Skin Protection** - Permeation resistant gloves (butyl rubber, nitrile rubber, PVC or polyvinyl alcohol).

**Eye/Face Protection** - Glasses with side shields, chemical splash goggles and/or face shield.

<u>Chemical Name / CAS No.</u>	<u>OSHA Exposure Limits</u>	<u>ACGIH Exposure Limits</u>	<u>Other Exposure Limits</u>
Methyl Alcohol/67-56-1	200 ppm TWA; 260mg/m <sup>3</sup> TWA	250 ppm STEL; 200 ppm TWA	NIOSH: 200 ppm TWA 260mg/m <sup>3</sup> TWA; 250ppm ppm STEL; 325mg/m <sup>3</sup> STEL
Toluene/108-88-3	200 ppm TWA	20 ppm TWA	NIOSH: 100ppm TWA; 375mg/m <sup>3</sup> TWA; 150 ppm STEL; 560mg/m <sup>3</sup> STEL

### SECTION 9: Physical and Chemical Properties

**Appearance:** Thick Syrup

**Odor:** fruity like odor

**Relative Density:** 0.95

**Odor Threshold:** Not available

**Solubility:** Negligible

**pH:** N/A

**Partition Coefficient:** n-octanol/water; Not determined

**Melting Point:** Not determined

**Freezing Point:** Not determined

**Auto-ignition Temperature:** Not determined

Flash Point: 4°C (39°F)  
 Decomposition Temperature: Not determined  
 Evaporation Rate: Not determined  
 Viscosity: Not determined  
 Flammability (Solid/Gas): Not applicable  
 Upper/Lower Flammability: Not determined  
 VOC Content: 226 g/L  
 Vapor Pressure: 96 mmHg  
 Vapor Density: 1.1  
 Boiling Point: 65°C/149°F

**SECTION 10: Stability and Reactivity**

Chemical Stability: Stable under normal temperature conditions and recommended use.  
 Conditions to Avoid: Excessive heat (sparks and/or flames), direct sunlight and/or frost.  
 Materials to Avoid: Strong oxidizing agents.

**SECTION 11: Toxicological Information**

Mixture Toxicity: LC50: 107mg/L  
 Acute toxicity:  
 Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.  
 Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.  
 Skin Contact: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and Pain. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.  
 Component Toxicity: Toluene/108-88-3  
 Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13mg/L (Rat)

	<u>CAS Number</u>	<u>%Weight</u>
Toluene	108-88-3	12

**SECTION 12: Ecological Information**

Component Ecotoxicity:  
 Methyl Alcohol 96 hour LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 hour LC50 Pimephales promelas: >100 mg/L [static]; 96 hour LC50 Oncorhynchus mykiss: 19500-20700 mg/L [flow-through]; 96 hour LC50 Oncorhynchus mykiss: 18-20 mL/L [static]; 96 hour LC50 Lepomis macrochirus: 13500-17600 mg/L [flow-through]  
 Toluene 96 Hr LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static]; 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5

mg/L [static]

### SECTION 13: Disposal Considerations

**Disposal:** Dispose of waste and residues in accordance with local authority requirements. Incineration is the preferred method of disposal.

**Wastes or Residues:** Same as above.

### SECTION 14: Transport Information

**Road:** DOT Proper Shipping Name: (49CFR172.101-102): Adhesives (containing flammable solvents)  
DOT Packing Group: II  
DOT Hazard Class: 3  
DOT Label: (49CFR172.101-102): Flammable  
UN Number: 1133  
D.O.T. PLACARDS REQUIRED (49CFR172.504): Flammable  
Bill of Lading Description: **Adhesive, N.O.S (Toluene, Methyl Alcohol), Flammable liquid**

**Ocean:** Proper Shipping Name: **Adhesives**  
Sea – IMO/IMDG Class: 3  
UN Number: 1133  
Packing Group: II

**Air:** Proper Shipping Name: **Adhesives**  
Air – ICAO/IATA Class: 3  
UN Number: 1133  
Packing Group: II

### SECTION 15: Regulatory Information

**Status on Substance Lists:** The concentrations shown in this document are maximum levels (weight %) to be used for regulations.

**TSCA:** The components of this product are contained on the chemical substance inventory list

**OSHA:** This product is a 'Hazardous Chemical' as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**IARC:** Not carcinogenic  
**OSHA PEL's** Toluene/108-88-3

**Federal EPA:** Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA): Requires notification of the national response center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR

302.4. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% by Weight	RQ
Toluene	108-88-3	12	1000 lbs
Methyl alcohol	67-56-1	50	5000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product at level which could require reporting under this statute are:

Chemical Name	CAS Number	% by Weight	RQ
None	None	None	None

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known- **None**

**NJ RTK**

108-88-3 Toluene  
67-56-1 Methyl Alcohol

**Pennsylvania RTK**

108-88-3 Toluene  
67-56-1 Methyl Alcohol

**SARA 302** Extremely Hazardous Substances - None

**Massachusetts RTK**

108-88-3 Toluene  
67-56-1 Methyl Alcohol

**EPA Hazard Classifications:**

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDSs that are distributed for this material. Components present in this product at level which could require reporting under the statute are:

**Toluene/108-88-3**  
**Methyl Alcohol/67-56-1**

**Canada DSL:** This material is listed or exempted.

**California Proposition 65:** Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm: **Toluene/108-88-**

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

**HMIS RATING: HEALTH-2, FLAMMABILITY-3 REACTIVITY-0, PERSONAL PROTECTION-B**

Prepared by: Roberts Consolidated Product Safety & Regulatory Compliance Group, (706) 277-5294

The information herein is given in good faith, but no warranty expressed or implied is made. Roberts Consolidated urges users of this product to evaluate its suitability and compliance with local regulations as Roberts Consolidated cannot foresee the final use of the product, nor the final location of usage.

Date of issue:5/27/15



# Safety Data Sheet

Revision Date: 05/15/2015

## SECTION 1: Identification and Company Details

Product Name: Anchor 250 Contact Cement  
Product Code: ANCHOR 250

Manufacturer/ Supplier: Roberts Consolidated Industries, Inc.  
Address: 300 Cross Plains Blvd.  
Dalton, GA 30721

Emergency Phone: (800) 424-9300 (24-hour Response / CHEMTREC)  
Product Information: (706) 277-5294

Recommended Use: Adhesive

## SECTION 2: Hazard(s) Identification

OSHA / HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture: Inhalation Toxicity Acute Toxicity- Category 3  
Skin corrosive- Category 2  
Eye corrosive- Category 2  
Respiratory sensitizer- Category 1  
Skin sensitizer – Category 1  
Carcinogenicity- 1B  
Reproductive toxin- Category 1A  
Aspiration hazard- 1

Signal Word: Danger

Hazard Statements: Highly flammable liquid and vapour  
May be fatal if swallowed and enters airways  
Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
Toxic if inhaled  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause cancer  
May damage fertility or the unborn child



Hazard Pictograms:

Precautionary Statements: Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash hands thoroughly after handling

Use only outdoors or in a well-ventilated area  
 Contaminated work clothing should not be allowed out of the workplace  
 Use personal protective equipment as required  
 In case of inadequate ventilation wear respiratory protection  
 Specific treatment- treat symptomatically  
 Take off contaminated clothing and wash before reuse  
 IF ON SKIN: Wash with soap and water  
 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 IF exposed or concerned: Get medical advice/attention  
 If skin irritation or a rash occurs: Get medical advice/attention  
 Call a POISON CENTER or doctor/physician  
 Store in a well ventilated place. Keep container tightly closed  
 Dispose of contents/container in accordance with local authority requirement

### SECTION 3: Composition / Information on Ingredients

	<u>Weight %</u>	<u>CAS #</u>
Toluene	34%	108-88-3
Hexane	23%	110-54-3
Methyl ethyl ketone	5%	78-93-3

### SECTION 4: First-Aid Measures

**Inhalation:** Move victim to fresh air. Consult physician if necessary.  
**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Consult physician if necessary.  
**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Remove contact lenses if possible. Consult physician if necessary.  
**Ingestion:** Do not induce vomiting. Wash mouth with water. Consult physician.  
**Note to Physician:** *Eyes:* Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation. *Skin:* This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. *Ingestion:* Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. *Respiratory:* Treatment is essentially symptomatic. Remove individual with symptoms from exposure and assist in breathing if necessary.

### SECTION 5: Fire-Fighting Measures

**Extinguishing Media:** In case of fire use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.  
**Hazardous Combustion Products:** Aldehydes, hydrocarbons, carbon monoxide, carbon dioxide.  
**Protection of Firefighters:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Water may not effectively extinguish fire; however, it should be used to keep fire- exposed containers and surfaces cool and prevent explosive rupture.

### SECTION 6: Accidental Release Measures

**Personal Precautions:** Use protective gloves, goggles and suitable protective clothing. Ventilate the area with fresh air. Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

**Environmental Precautions:** Do not allow product to get into drains, soil, or surface water.

**Methods of Clean-up:** Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and Storage

**Handling Precautions:** Provide good ventilation. Keep away from heat/sparks/open flames/hot surfaces. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**Storage:** Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C/ 40°F and 86°F. Protect from freezing and direct sunlight. Store away from oxidizing agents.

## SECTION 8: Exposure Control / Personal Protection

**Exposure Guidelines:** Not determined

**Engineering Controls:** Provide adequate ventilation.

**Personal Protective Equipment:**  
*Skin Protection* - Permeation resistant gloves (butyl rubber, nitrile rubber, PVC or polyvinyl alcohol).  
*Eye/Face Protection* - Glasses with side shields, chemical splash goggles and/or face shield.

<u>Chemical Name / CAS No.</u>	<u>OSHA Exposure Limits</u>	<u>ACGIH Exposure Limits</u>	<u>Other Exposure Limits</u>
Toluene/ 108-88-3	20 ppm TWA	200 ppm TWA	NIOSH: 100 ppm TWA; 375 mg/m <sup>3</sup> TWA 150 ppm STEL; 560 mg/m <sup>3</sup> STEL
Hexane/ 110-54-3	500 ppm TWA 1800 mg/m <sup>3</sup> TWA	50 ppm TWA;	NIOSH: 50 ppm TWA; 180 mg/m <sup>3</sup> TWA
Methyl ethyl ketone/ 78-93-3	200 ppm TWA; 590 mg/m <sup>3</sup> TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 885 mg/m <sup>3</sup> STEL

## SECTION 9: Physical and Chemical Properties

**Appearance:** Tan liquid

**Odor:** Aromatic Solvent

**Relative Density:** 0.86

**Odor Threshold:** Not available

**Solubility:** Not soluble in water

**pH:** N/A

**Partition Coefficient:** n-octanol/water; Not determined

**Melting Point:** Not determined

**Freezing Point:** Not determined

**Auto-ignition Temperature:** Not determined

**Flash Point:** N/A



Decomposition Temperature: Not determined  
Evaporation Rate: Not determined  
Viscosity: Not determined  
Flammability (Solid/Gas): Not applicable  
Upper/Lower Flammability: Not determined  
VOC Content: 660 g/L  
Vapor Pressure: Not Determined  
Boiling Point: tested value

#### SECTION 10: Stability and Reactivity

Chemical Stability: Stable under normal temperature conditions and recommended use.  
Conditions to Avoid: Excessive heat (sparks and/or flames), direct sunlight and/or frost.  
Materials to Avoid: Strong oxidizing agents.

#### SECTION 11: Toxicological Information

Mixture Toxicity: Inhalation Toxicity LC50: 8mg/L  
Component Toxicity:  
108-88-3 TOLUENE Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat)  
110-54-3 Hexane Dermal LD50: 3,000 mg/kg (Rabbit)  
78-93-3 Methyl ethyl ketone Oral LD50: 2,483 mg/kg (Rat) Dermal LD50: 5,000 mg/kg (Rabbit)  
Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.  
Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.  
Skin Contact: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### SECTION 12: Ecological Information

##### Component Ecotoxicity:

Toluene 96 Hr LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static]  
48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L  
96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]  
Hexane 96 Hr LC50 Pimephales promelas: 2.1 - 2.98 mg/L [flow-through]  
Methyl ethyl ketone 96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through]  
48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]

#### SECTION 13: Disposal Considerations

Disposal: Dispose of waste and residues in accordance with local authority requirements. Incineration is the preferred method of disposal.  
Wastes or Residues: Same as above.

#### SECTION 14: Transport Information

**Road:** DOT Proper Shipping Name: (49CFR172.101-102): Adhesives (containing flammable solvents)  
 DOT Packing Group: II  
 DOT Hazard Class: 3  
 DOT Label: (49CFR172.101-102): Flammable  
 UN Number: 1133

**Ocean:** Proper Shipping Name: **Non-Regulated**  
 Sea – IMO/IMDG Class: N/A  
 UN Number: N/A  
 Label: N/A  
 Packing Group: N/A  
 Marine Pollutant: N/A  
 EMS: N/A

**Air:** Proper Shipping Name: **Non-Regulated**  
 Air – ICAO/IATA Class: N/A  
 UN Number: N/A  
 Label: N/A  
 Sub Class: N/A  
 Packing Group: N/A  
 Pack Instr. Passenger: N/A  
 Pack Instr. Cargo: N/A

**SECTION 15: Regulatory Information**

**Status on Substance Lists:** The concentrations shown in this document are maximum levels (weight %) to be used for regulations.

**TSCA:** The components of this product are contained on the chemical substance inventory list

**OSHA:** This product is a 'Hazardous Chemical' as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**IARC:** Not carcinogenic.  
**OSHA PEL's** 108-88-3 Toluene

**Federal EPA:** Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA): Requires notification of the national response center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% by Weight	RQ
Toluene	108-88-3	34	1000 lbs
Hexane	110-54-3	23	5000 lbs
Methyl ethyl ketone	78-93-3	5	5000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product at level which could require reporting under this statute are:

Chemical Name	CAS Number	% by Weight	RQ
None	None	None	None

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known- **None**

**SARA 302** Extremely Hazardous Substances - None

**EPA Hazard Classifications:**

Acute Hazard Yes	Chronic Hazard Yes	Fire Hazard Yes	Pressure Hazard No	Reactive Hazard No
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This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR.

110-54-3 Hexane

108-88-3 Toluene

**NJ RTK**

78-93-3 Methyl ethyl ketone

110-54-3 Hexane

108-88-3 Toluene

**Pennsylvania RTK**

78-93-3 Methyl ethyl ketone

110-54-3 Hexane

108-88-3 Toluene

**Massachusetts RTK**

78-93-3 Methyl ethyl ketone

110-54-3 Hexane

108-88-3 Toluene

**Canada DSL:** None

**California Proposition 65:** Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm: **Toluene/108-88-3**

**SECTION 16: Other Information**

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

**HMIS RATING: HEALTH- 2, FLAMMABILITY- 3, REACTIVITY- 0, PERSONAL PROTECTION- B**

Prepared by: Roberts Consolidated Product Safety & Regulatory Compliance Group, (706) 277-5294

The information herein is given in good faith, but no warranty expressed or implied is made. Roberts Consolidated urges users of this product to evaluate its suitability and compliance with local regulations as Roberts Consolidated cannot foresee the final use of the product, nor the final location of usage.

Date of issue: 5/28/15

## SAFETY DATA SHEET

REVISION DATE: 01-26-2015

SUPERSEDES: 08-08-2013

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### PRODUCT INFORMATION

PRODUCT: E3000  
 PRODUCT DESCRIPTION: Mastic  
 INTENDED USE: Adhesive  
 PRODUCT IDENTIFIER: 825565PM

#### COMPANY INFORMATION

Manufactured for:  
 L. Fishman & Sons, Inc.  
 6301 E. Lombard Street  
 Baltimore, MD 21224  
 410-633-0066

By:  
 H.B. Fuller Construction Products Inc.  
 1105 S. Frontenac Street  
 Aurora, IL 60504  
 Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758  
 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### GHS Hazard Symbols:



**GHS Signal Word:** Warning  
**GHS Classification:** Skin Sensitisation Category 1; Serious Eye Damage/Eye Irritation Category 2  
**GHS Hazard Phrases:** May cause an allergic skin reaction.; Causes serious eye irritation.  
**GHS Precautions:**  
**Safety Precautions:** Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.  
**First Aid Measures:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.  
**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Ethanol amine	141-43-5	1 - 5	Acute Tox. 3; H311 Acute Tox. 4; H302	

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			Acute Tox. 4; H332 Skin Corr. 1B; H314
Rosin, pentaerythritol ester	8050-26-8	0.1 - 1	Aquatic Chronic 4; H413 Eye Irrit. 2A; H319 Skin Sens. 1; H317
Modified rosin ester	Proprietary	0.1 - 1	Eye Irrit. 2; H319 Skin Sens. 1; H317

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

### SECTION 4: FIRST AID MEASURES

**IF IN EYES:** None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

**IF ON SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**IF INHALED:** Remove to fresh air. Call a physician if symptoms persist.

**IF SWALLOWED:** Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

### SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water spray, foam, dry chemical or carbon dioxide.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, Carbon monoxide Nitrogen containing gases

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**SPECIAL PROTECTION:** No health effects expected from the cleanup of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

**METHODS FOR CLEAN-UP:** Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

### SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid unnecessary exposure.

**Storage:** Store in a cool, dry place. Protect from freezing  
Consult the Technical Data Sheet for specific storage instructions.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE LIMITS:

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Kaolin clay	*(see below)	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Mineral oil		No data available.	5 mg/m <sup>3</sup> TWA (as mist)
Calcium carbonate	*(see below)	No data available.	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Ethanol amine		3 ppm TWA 6 ppm STEL	3 ppm TWA; 6 mg/m <sup>3</sup> TWA

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

#### ENGINEERING CONTROL METHODS:

- VENTILATION:** Use local exhaust ventilation or other engineering controls to minimize exposures.
- EYE PROTECTION:** Wear safety glasses when handling this product.
- SKIN PROTECTION:** Avoid skin contact by wearing chemically resistant gloves.
- GLOVES:** Nitrile
- RESPIRATORY PROTECTION:** Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Semi-solid
COLOR:	Tan
ODOR:	Slight Aromatic
ODOR THRESHOLD:	Not established
pH:	9.9
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	9.80
SPECIFIC GRAVITY:	1.170
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established

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VISCOSITY: No data available.  
 SOLIDS (% by weight): 55.5  
 VOC, weight percent Not determined  
 VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined) 0g/liter of material

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.  
 CHEMICAL INCOMPATIBILITY: Not established  
 HAZARDOUS POLYMERIZATION: Will not occur.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Nitrogen containing gases

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG
Ethanol amine	ORAL LD50 RAT 1,720 MG/KG DERMAL LD50 RABBIT 1.00 ML/KG

**This product is a mixture. Unless noted, the information below is based on components.**

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

Serious eye damage / irritation :No irritation hazard in normal industrial use.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

**SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.  
 MOBILITY: No data available.  
 PERSISTENCE: No data available.  
 BIOACCUMULATION: No data available.

**This product has not been tested for ecological effects. Relevant information for components is listed below:**

Component:	Ecotoxicity values:
Urea	Acute Toxicity (Fish): 96 Hr LC50 Poecilia reticulata: 16200 - 18300 mg/L

**SAFETY DATA SHEET**

	<p><b>Acute Toxicity (Daphnia):</b> 24 Hr EC50 Daphnia magna Straus: &gt;10000 mg/L; 48 Hr EC50 Daphnia magna: 3910 mg/L [Static]  <b>Acute Toxicity (Algae):</b> Not established</p>
Ethanol amine	<p><b>Acute Toxicity (Fish):</b> 96 Hr LC50 Pimephales promelas: 227 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 3684 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 300 - 1000 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 114 - 196 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: &gt;200 mg/L [flow-through]  <b>Acute Toxicity (Daphnia):</b> 48 Hr EC50 Daphnia magna: 65 mg/L  <b>Acute Toxicity (Algae):</b> 72 Hr EC50 Desmodesmus subspicatus: 15 mg/L</p>

**SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

**SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED  
 IATA: NOT REGULATED

**SECTION 15: REGULATORY INFORMATION**

**INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.  
 CANADIAN CEPA DSL: This product contains a component that is not on the DSL. If you are the importer of this product into Canada, contact H.B. Fuller for chemical tracking and notification information.  
 EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.  
 AUSTRALIA AICS: This product contains a component that is not on the Australian Inventory (AICS).

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at [reg.request@hbfuller.com](mailto:reg.request@hbfuller.com) to request an export review.

**FEDERAL REPORTING**

**EPA SARA Title III Section 313**

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.  
 D2B

**STATE REPORTING**

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains substance(s) known to the State of California to cause cancer or reproductive harm.



Print Date: 06-04-2015

E3000  
825565PM**SAFETY DATA SHEET**

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**Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's.

4-Nonylphenol, ethoxylated

**SECTION 16: OTHER INFORMATION**

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SDS VERSION DATE: 01-26-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 1 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

# SAFETY DATA SHEET

PRODUCT: Carpet Edge Sealer

## 1. Product and Company Identification

IDENTITY	ANCHOR FUSION 8850 CARPET EDGE SEALER	MANUFACTURERS	
SYNONYMS	Carpet Edge Sealer	NAME	TRAXX CORPORATION
CAS NUMBER	NONE	ADDRESS	1201 E. LEXINGTON AVE. POMONA, CA 91766
DATE OF LAST ALTERATION	June 1, 2015	EMERGENCY	
		TELEPHONE NO.	(909) 623-8032
		INFORMATION	
		TELEPHONE NO.	(909) 623-8032

## 2. Hazards Identifications

HMIS Rating:				
Health: 1	Fire: 0	Reactivity: 0	PPE: B	
This material is formulated with trade secret ingredients and does not contain any hazardous substances at or above OSHA and WHMIS reportable levels. Use this product as intended				

## 3. Composition/Information on Ingredients

HAZARDOUS INGREDIENTS			
HAZARDOUS COMPONENTS	C.A.S.Number	TLV/PEL	Weight Percent
Vinyl acetate (residual)	108-05-4	10 ppm	Less than 0.2%

## 4. First-Aid Measures

<b>EMERGENCY AND FIRST AID PROCEDURES:</b>
Get medical attention if irritation or other symptoms occur.
1. INHALATION: REMOVE FROM AREA TO FRESH AIR. SEEK MEDICAL ADVICE. (PRIMARY ROUTE OF EXPOSURE IS INHALATION).
2. EYES: MAY CAUSE EYE IRRITATION, FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
3. SKIN: MAY CAUSE SKIN IRRITATION, SEEK MEDICAL ADVICE.
4. INGESTION: NOT APPLICABLE UNDER NORMAL USE.

## 5. Fire-Fighting Measures

<b>FIRE AND EXPLOSION HAZARD DATA</b>			
APPEARANCE AND ODOR	White opaque viscous liquid with slight vinyl acetate odor.		
BOILING POINT ((760 mm, Hg)	100°C (212°F)	MELTING POINT	N/A
pH	5 - 7		
SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.05	VAPOR PRESSURE AT 20°C	N/A
VAPOR DENSITY (AIR=1)	N/A	WATER SOLUBILITY/MISCIBILITY.	Moderately soluble
PERCENT NON-VOLATILES	56%	EVAPORATION RATE	N/A
FLASH POINT	N/A	(BUTYL ACETATE = 1)	
EXTINGUISHING			
MEDIA:	WATER, SAND, CO <sub>2</sub> AND CHEMICAL EXTINGUISHERS.		
SPECIAL FIRE FIGHTING PROCEDURES:	USE NORMAL FIREFIGHTING METHODS FOR FIRES.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	NONE		

**6. Accidental Release Measures**

**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

SPILLED SUSTANCE INCREASES RISK OF SLIPPING..

**WASTE DISPOSAL METHOD:**

IF DISPOSED OR DISCARDED IN ITS PURCHASED FORM, INCINERATION IS PREFERABLE. DRY LAND DISPOSAL IS ACCEPTABLE IN MOST STATES. IT IS, HOWEVER, THE USER'S RESPONSIBILITY TO DETERMINE AT THE TIME OF DISPOSAL WHETHER THIS PRODUCT MEETS FEDERAL, STATE OR LOCAL REGULATIONS.

**7. Handling and Storage**

**PRECAUTIONS FOR SAFE HANDLING AND USE**

STORE IN COOL PLACE. KEEP FROM FREEZING. KEEP AWAY FROM OPEN FLAME AND CHILDREN. KEEP CONTAINER CLOSED. AVOID REPEATED OR PROLONGED CONTACT WITH SKIN. FOR INDUSTRIAL USE ONLY.

**8. Exposure Controls and Personal Protection**

**CONTROL MEASURES**

RESPIRATORY PROTECTION: GENERALLY NOT REQUIRED.

VENTILATION: NORMAL ROOM VENTILATION WITH FANS IF NECESSARY.

PROTECTIVE GLOVES: GENERALLY NOT REQUIRED.

EYE PROTECTION: SAFETY GLASSES RECOMMENDED.

WORK/HYGIENE PRACTICES: GENERAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE APPLICABLE.

**9. Physical and Chemical Properties**

APPEARANCE AND ODOR White opaque viscous liquid with slight vinyl acetate odor.

BOILING POINT ((760 mm, Hg)	100°C (212°F)	MELTING POINT	N/A
pH	5 - 7		
SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.05	VAPOR PRESSURE AT 20°C	N/A
VAPOR DENSITY (AIR=1)	N/A	WATER SOLUBILITY/MISCIBILITY.	Moderately soluble
PERCENT NON-VOLATILES	56%	EVAPORATION RATE	N/A
FLASH POINT	N/A	(BUTYL ACETATE = 1)	

**10. Stability and Reactivity**

**REACTIVITY DATA**

STABILITY: STABLE

CONDITIONS TO AVOID: AVOID CONTACT WITH OXIDIZING AGENTS.

INCOMPATIBILITY

(MATERIALS TO AVOID) OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE & CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

**11. Toxicological Information**

**HEALTH HAZARD DATA**

EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE:

BASED ON THE AVAILABLE DATA TOXIC EFFECTS ARE NOT EXPECTED AFTER SINGLE ORAL EXPOSURE.

PRODUST DETAILS:

ROUTE OF EXPOSURE	RESULT/EFFECT	SPECIES/TEST SYSTEM
ORAL	LD 50: 2000 MG/KG	RAT

EYE IRRITATION:

VAPORS MAY CAUSE EYE IRRITATION.

SKIN IRRITATION:

PROLONGED SKIN CONTACT MAY CAUSE SKIN IRRITATION.

INGESTION:

WILL CAUSE IRRITATION OF THE DIGESTIVE TRACT IF INGESTED.

CHRONIC OVEREXPOSURE:

NO TOXICOLOGICAL TEST DATA IS AVAILABLE FOR THE WHOLE PRODUCT.

**12. Ecological Information**

**Toxicity**

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

**Degradability**

Not readily biodegradable.

**Other adverse effects**

None Know

**13. Disposal Considerations**

**Product Disposal**

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

**Packaging Disposal**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

Recommended cleaning agent: water

**14. Transport Information**

**US DOT & TDG SURFACE**

Valuation..... Not regulated for transport

Other Information.....Protect from freezing, when exposed to cold temperatures approaching 0°C (32°F) or below.

**15. Regulatory Information**

**U.S. Federal Regulations**

TSCA inventory status:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

This material does not contain any TSCA 12 (b), CERCLA, SARA, and SARA 313 regulated chemicals above minimum levels.

**16. Other Information**

**DISCLAIMER:**

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (28 CFR1910.1200). The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. TRAXX Corporation MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the TRAXX product is fit for a particular purpose and suitable for user's method of use or application.

06012015

## Safety Data Sheet

### APAC 564

Safety Data Sheet dated: 8/1/2016 - version 4

Date of first edition: 5/27/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: APAC 564

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 1-800-747-2722

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

None

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No Data Available

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste white

Odour: like: Acrylate

Odour threshold: N.A.

pH: Not Relevant

Melting point / freezing point: N.A.

Initial boiling point and boiling range: Not Relevant

Flash point: Not Relevant

Evaporation rate: Slower than ether

Upper/lower flammability or explosive limits: N.A.

Vapour density: Heavier than air

Vapour pressure: N.A.

Relative density: N.A.  
Solubility in water: N.A.  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

**Other information**

Substance groups relevant properties: N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

**10. STABILITY AND REACTIVITY**

**Reactivity**

Stable under normal conditions

**Chemical stability**

Data not Available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

---

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

**Toxicological information on main components of the mixture:**

Sodium hydroxide                      a) acute toxicity                      LD50 Skin Rabbit = 1350mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

None

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

No Data Available

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

---

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

### UN number

ADR-UN number: N.A.

DOT-UN Number: N.A.

IATA-Un number: N.A.

IMDG-Un number: N.A.

### UN proper shipping name

ADR-Shipping Name: N.A.

DOT-Proper Shipping Name: N.A.

IATA-Technical name: N.A.

IMDG-Technical name: N.A.

### Transport hazard class(es)

ADR-Class: N.A.

DOT-Hazard Class: N.A.

IATA-Class: N.A.

IMDG-Class: N.A.

### Packing group

ADR-Packing Group: N.A.

DOT-Packing group: N.A.

IATA-Packing group: N.A.

IMDG-Packing group: N.A.

### Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

### Special precautions

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations



## **TSCA - Toxic Substances Control Act**

### **TSCA inventory:**

All the components are listed on the TSCA inventory

### **TSCA listed substances:**

no substances listed

## **SARA - Superfund Amendments and Reauthorization Act**

### **Section 302 - Extremely Hazardous Substances:**

no substances listed

### **Section 304 - Hazardous substances:**

no substances listed

### **Section 313 - Toxic chemical list:**

no substances listed

## **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

### **Substance(s) listed under CERCLA:**

no substances listed

## **CAA - Clean Air Act**

### **CAA listed substances:**

no substances listed

## **CWA - Clean Water Act**

### **CWA listed substances:**

no substances listed

## **USA - State specific regulations**

### **California Proposition 65**

#### **Substance(s) listed under California Proposition 65:**

no substances listed

### **Massachusetts Right to know**

#### **Substance(s) listed under Massachusetts Right to know:**

no substances listed

### **Pennsylvania Right to know**

#### **Substance(s) listed under Pennsylvania Right to know:**

no substances listed

### **New Jersey Right to know**

#### **Substance(s) listed under New Jersey Right to know:**

no substances listed

## **Canada- Federal regulations**

### **DSL - Domestic Substances List**

#### **DSL Inventory:**

All the substances are listed in the DSL.

### **NDSL - Non Domestic Substances List**

#### **NDSL Inventory:**

no substances listed

### **NPRI - National Pollutant Release Inventory**

#### **Substances listed in NPRI:**

no substances listed

---

## **16. OTHER INFORMATION**

**Additional classification information**



HMIS Health: 0 = Minimal

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = Minimal

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 11. TOXICOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION

## Ficha de datos de seguridad

### APAC 564

Ficha de datos de seguridad con fecha del: 8/1/2016 - Revisión 4

Fecha de la primera edición: 5/27/2015

## 1. IDENTIFICACIÓN

### Identificador del producto

Identificación del preparado:

Nombre comercial: APAC 564

### Usos recomendados y restricciones de uso del producto:

Uso aconsejado: Adhesivo

Restricciones de uso N.A.

### Nombre, dirección y teléfono del fabricante, importador u otro responsable del producto

Proveedor: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Tel. 1-800-747-2722

### Números de emergencia (24 horas):

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. IDENTIFICACIÓN DE RIESGO(S)

### Clasificación del producto

0 El producto no se considera peligroso de acuerdo con el OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Elementos de la etiqueta

El producto no se considera peligroso de acuerdo con el OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingrediente(s) cuya toxicidad aguda se desconoce:

Ninguno

### Riesgos no identificados durante el proceso de clasificación

Ninguno

## 3. COMPOSICIÓN/INFORMACIÓN RELATIVA A LOS INGREDIENTES

### Sustancias

N.A.

### Preparados

Clasificación de las sustancias peligrosas según el 29 CFR 1910.1200 y clasificaciones relacionadas:

Ninguno

## 4. PRIMEROS AUXILIOS

### Descripción de los primeros auxilios

En caso de contacto con la piel:

Lavar abundantemente con agua y jabón.

En caso de contacto con los ojos:

Lavar inmediatamente con agua.

En caso de ingestión:

No inducir el vómito, busque atención médica inmediata presentando la SDS (Ficha de Datos de Seguridad) y la etiqueta de productos peligrosos.

En caso de inhalación:

Trasladar al paciente al aire libre y mantenerlo en reposo y abrigado.

### Principales síntomas y efectos, agudos y retrasados

N.A.

### Indicación de toda atención médica y de los tratamientos especiales necesarios

## 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

### Medios de extinción

Medios de extinción apropiados:

Agua.

Dióxido de carbono (CO<sub>2</sub>).

**Medios de extinción no apropiados:**

Ninguno en particular.

**Peligros específicos derivados de la sustancia o preparado**

No inhalar los gases producidos por la explosión y por la combustión.

La combustión produce humo pesado.

Productos peligrosos emitidos por la combustión de la sustancia o preparado: N.A.

Propiedades explosivas: N.A.

Propiedades oxidantes: N.A.

**Protecciones y recomendaciones para el personal de lucha contra incendios.**

Utilizar equipos respiratorios apropiados.

Recoger por separado el agua contaminada utilizada para extinguir el incendio. No descargarla en la red de alcantarillado.

Si es posible hacerlo de manera segura, retirar de inmediato del área en peligro los contenedores no dañados.

---

**6. MEDIDAS EN CASO DE VERTIDO ACCIDENTAL**

**Precauciones personales, equipo de protección y procedimientos de emergencia**

Usar los dispositivos de protección individual.

Llevar las personas a un lugar seguro.

Consultar las medidas de protección expuestas en los puntos 7 y 8.

**Métodos y material de contención y de limpieza**

Material apropiado para la recogida: material absorbente, orgánico, arena

Lavar con abundante agua.

---

**7. MANIPULACIÓN Y ALMACENAMIENTO**

**Precauciones para una manipulación segura**

Evitar el contacto con la piel y los ojos, la inhalación de vapores y vahos.

No comer ni beber durante el trabajo.

Remitirse también al apartado 8 para los equipos de protección recomendados.

**Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

Temperatura de almacenamiento: N.A.

Materiales incompatibles:

Ninguno en particular.

Indicaciones para los locales:

Locales adecuadamente aireados.

---

**8. CONTROLES DE LA EXPOSICIÓN/PROTECCIÓN PERSONAL**

**Parámetros de control**

Ningún Dato Disponible

Controles técnicos apropiados: N.A.

**Medidas de protección individual**

Protección de los ojos:

No requerido para el uso normal. Operar según las buenas prácticas de trabajo.

Protección de la piel:

No se requiere ninguna precaución especial para el uso normal.

Protección de las manos:

No requerido para el uso normal.

Protección respiratoria:

N.A.

---

**9. PROPIEDADES FÍSICAS Y QUÍMICAS**

**Información sobre propiedades físicas y químicas básicas**

Estado físico: Líquido

Aspecto y color: Pasta blanco

Olor: como: acrilato

Umbral de olor: N.A.

pH: Irrelevante

Punto de fusión/congelamiento: N.A.

Punto de ebullición inicial e intervalo de ebullición: Irrelevante

Punto de ignición: Irrelevante

Velocidad de evaporación: Slower than ether

Límite superior/inferior de inflamabilidad o explosión: N.A.

Densidad de los vapores: Heavier than air

Presión de vapor: N.A.  
Densidad relativa: N.A.  
Hidrosolubilidad: N.A.  
Solubilidad en aceite: N.A.  
Coeficiente de reparto (n-octanol/agua): N.A.  
Temperatura de autoignición: N.A.  
Temperatura de descomposición: N.A.  
Viscosidad: N.A.  
Propiedades explosivas: N.A.  
Propiedades oxidantes: N.A.  
Inflamabilidad sólidos/gases: N.A.

#### **Información adicional**

Propiedades pertinentes de los grupos de sustancias: N.A.  
Miscibilidad: N.A.  
Liposolubilidad: N.A.  
Conductibilidad: N.A.

---

## **10. ESTABILIDAD Y REACTIVIDAD**

### **Reactividad**

Estable en condiciones normales

### **Estabilidad química**

Información no Disponible

### **Posibilidad de reacciones peligrosas**

Ninguno.

### **Condiciones que deben evitarse**

Estable en condiciones normales.

### **Materiales incompatibles**

Ninguna en particular.

### **Productos de descomposición peligrosos**

Ninguno.

---

## **11. INFORMACIÓN TOXICOLÓGICA**

### **Información sobre los efectos toxicológicos**

#### **Informaciones toxicológicas relativas al preparado:**

No existen datos toxicológicos relativos al preparado. Considere la concentración individual de cada una de las sustancias para evaluar los efectos toxicológicos derivados de la exposición al preparado

#### **A continuación, se han incluido las informaciones toxicológicas referentes a las principales sustancias presentes en el preparado:**

Sodium hydroxide                      a) toxicidad aguda                      DL50 Piel Conejo = 1350mg / kg

**Si no se especifica lo contrario, los datos requeridos por el reglamento y que se indican a continuación deben considerarse no disponibles.**

- a) toxicidad aguda
- b) corrosión/irritación cutánea
- c) lesiones/irritación ocular graves
- d) sensibilización respiratoria o cutánea
- e) mutagenicidad en células germinales
- f) carcinogenicidad
- g) toxicidad para la reproducción
- h) toxicidad específica en determinados órganos (STOT) - exposición única
- i) toxicidad específica en determinados órganos (STOT) - exposición repetida
- j) peligro de aspiración

#### **Sustancia(s) incluida(s) en las Monografías IARC:**

Ninguno

#### **Sustancia(s) incluida(s) como carcinógeno(s) OSHA:**

Ninguno

#### **Sustancia(s) incluida(s) como carcinógeno(s) NIOSH:**

Ninguno

#### **Sustancia(s) incluida(s) en el informe de la NTP sobre Carcinógenos:**

---

## 12. INFORMACIÓN ECOLÓGICA

### Toxicidad

Utilizar técnicas de trabajo adecuadas para evitar la dispersión del producto en el medio ambiente.

Información Ecotoxicológica:

### Lista de propiedades eco-toxicológicas del producto

Ningún Dato Disponible

### Persistencia y degradabilidad

N.A.

### Potencial de bioacumulación

N.A.

### Movilidad en el suelo

N.A.

### Otros efectos adversos

N.A.

---

## 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN

### Métodos de tratamiento de residuos

Los residuos deben ser tratados de acuerdo con todas las regulaciones federales, estatales, provinciales y locales. Consulte a las autoridades antes de desecharlo.

---

## 14. INFORMACIÓN RELATIVA AL TRANSPORTE

Producto no peligroso según los criterios de la reglamentación del transporte.

### Nivel de riesgo para el transporte

Número ADR-UN: N.A.

DOT-Número ONU: N.A.

Número -IATA-Un: N.A.

Número-IMDG-Un: N.A.

### Designación oficial de transporte de la ONU

ADR-Designación del transporte: N.A.

DOT-Nombre apropiado del envío: N.A.

Nombre técnico-IATA: N.A.

Nombre técnico-IMDG: N.A.

### Grupo de embalaje

ADR-Por carretera: N.A.

DOT-Clase de riesgo: N.A.

Clase-IATA: N.A.

Clase-IMDG: N.A.

### Transporte a granel con arreglo al anexo II del MARPOL73/78 y del Código IBC

ADR-Grupo de embalaje: N.A.

DOT-Grupo de embalaje: N.A.

Grupo de embalaje-IATA: N.A.

Grupo de embalaje-IMDG: N.A.

### Peligros para el medio ambiente

Agente de contaminación marina: No

Contaminante ambiental: N.A.

### número ONU

N.A.

### Precauciones especiales

Departamento de Transporte (DOT):

N.A.

Carretera y Ferrocarril (ADR-RID)

N.A.

Aire (IATA)

N.A.

Mar (IMDG)

N.A.

## 15. INFORMACIÓN REGULATORIA

### USA - Regulaciones Federales

#### TSCA - Toxic Substances Control Act

**Inventario TSCA:**

Todos los componentes están incluidos en el inventario de la TSCA

**Sustancias que aparecen en el TSCA:**

Ninguna sustancia incluida

#### SARA - Superfund Amendments and Reauthorization Act

**Sección 302 - Sustancias extremadamente peligrosas:**

Ninguna sustancia incluida

**Sección 304 - Sustancias peligrosas:**

Ninguna sustancia incluida

**Sección 313 - Lista de sustancias tóxicas:**

Ninguna sustancia incluida

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

**Sustancia(s) incluidas en CERCLA:**

Ninguna sustancia incluida

#### CAA - Clean Air Act

**Sustancias incluidas en CAA:**

Ninguna sustancia incluida

#### CWA - Clean Water Act

**Sustancias incluidas en CWA:**

Ninguna sustancia incluida

### USA - Regulaciones específicas estatales

#### California Proposition 65

**Sustancia(s) incluidas en la Proposición 65 de California**

Ninguna sustancia incluida

#### Massachusetts Right to know

**Sustancia(s) enumeradas en Massachusetts Right to know:**

Ninguna sustancia incluida

#### Pennsylvania Right to know

**Sustancia(s) enumeradas en Pennsylvania Right to know**

Ninguna sustancia incluida

#### New Jersey Right to know

**Sustancia(s) enumeradas en New Jersey Right to know:**

Ninguna sustancia incluida

### Canada - Regulaciones Federales

#### DSL - Lista de Sustancias Domésticas

**Inventario DSL:**

Todas las sustancias se enumeran en la DSL.

#### NDSL - Lista de Sustancias No Domésticas

**Inventario NDSL:**

Ninguna sustancia incluida

#### NPRI - Inventario Nacional de Emisiones de Contaminantes

**Sustancias incluidas en el NPRI:**

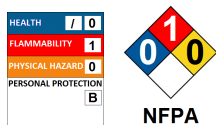
Ninguna sustancia incluida

## 16. OTRA INFORMACIÓN

Ficha de datos de seguridad con fecha del: 8/1/2016 - Revisión 4

Código de producto: 2844

### Información adicional de la clasificación



Peligro para la salud HMIS : 0 = Mínimo

Salud HMIS: ¿es crónico el peligro para la salud?: 0

Inflamabilidad HMIS : 1 = Combustible si se calienta

Reactividad HMIS : 0 = Mínimo

EPI HMIS: Gafas de seguridad, guantes

Peligro para la salud NFPA : 0 = Mínimo

Inflamabilidad NFPA : 1 = Combustible si se calienta

Reactividad NFPA : 0 = Mínimo

Riesgo especial NFPA: N.A.

Cuidado razonable se ha tomado en la preparación de esta información, pero el fabricante no ofrece ninguna garantía de comerciabilidad o cualquier otra garantía, expresa o implícita, con respecto a esta información. El fabricante no asume la responsabilidad y no asume ninguna responsabilidad por los daños directos, indirectos o consecuentes que resulten de su utilización. La información en este documento se presenta de buena fe y se cree que es exacta en la fecha efectiva. Es responsabilidad del comprador para asegurar que sus actividades cumplan con las leyes federales, estatales o provinciales, y las leyes locales.

Este documento ha sido preparado por una persona competente que ha recibido un entrenamiento adecuado

El usuario debe verificar que esta información sea apropiada y exacta en relación al uso específico que debe hacer del producto.

Esta ficha anula y sustituye toda edición precedente.

### Explicación de las abreviaturas y acrónimos utilizados en la ficha de datos de seguridad:

ADR: Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera.

RID: Normas relativas al transporte internacional de mercancías peligrosas por ferrocarril.

IMDG: Código marítimo internacional de mercancías peligrosas.

IATA: Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.

IATA-DGR: Normas aplicadas a las mercancías peligrosas por la "Asociación de Transporte Aéreo Internacional" (IATA).

ICAO: Organización de la Aviación Civil Internacional.

ICAO-TI: Instrucciones Técnicas de la "Organización de la Aviación Civil Internacional" (OACI).

GHS: Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.

CLP: Clasificación, etiquetado, embalaje.

EINECS: Catálogo Europeo de Sustancias Químicas Comercializadas.

INCI: Nomenclatura internacional de ingredientes cosméticos.

CAS: Chemical Abstracts Service (de la American Chemical Society).

GefStoffVO: Ordenanza sobre sustancias peligrosas, Alemania.

LC50: Concentración letal, para el 50% de la población expuesta.

LD50: Dosis letal, para el 50% de la población expuesta.

DNEL: Nivel sin efecto derivado.

PNEC: Concentración prevista sin efecto.

TLV: Valor límite umbral.

TWATLV: Valor límite umbral para el tiempo medio ponderado de 8 horas por día (Estándar ACGIH).

STEL: Nivel de exposición de corta duración.

STOT: Toxicidad específica en determinados órganos.

WGK: Clase de riesgos para las aguas (Alemania).

KSt: Coeficiente de explosión.

### Parágrafos modificados respecto la revisión anterior

- 1. IDENTIFICACIÓN DE LA SUSTANCIA O PREPARADO Y DE LA SOCIEDAD O EMPRESA
- 2. IDENTIFICACIÓN DE RIESGOS
- 3. COMPOSICIÓN/INFORMACIÓN RELATIVA A LOS INGREDIENTES
- 11. INFORMACIÓN TOXICOLÓGICA
- 15. INFORMACIÓN REGULATORIA



## Safety Data Sheet

### APAC 610

Safety Data Sheet dated: 8/1/2016 - version 2

Date of first edition: 5/27/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: APAC 610

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 1-800-747-2722

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

None

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No Data Available

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste cream

Odour: like: Acrylate

Odour threshold: N.A.

pH: 9.25

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: Not Applicable

Evaporation rate: Slower than ether

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.10 g/cm<sup>3</sup>  
Solubility in water: N.A.  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance groups relevant properties: N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Toxicological information of the product: No Data Available

### Substance(s) listed on the IARC Monographs:

None

### Substance(s) listed as OSHA Carcinogen(s):

None

### Substance(s) listed as NIOSH Carcinogen(s):

None

### Substance(s) listed on the NTP report on Carcinogens:

None

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

### List of Eco-Toxicological properties of the product

No Data Available

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

### 14. TRANSPORT INFORMATION

#### UN number

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

#### UN proper shipping name

ADR-Shipping Name: N/A  
DOT-Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

#### Transport hazard class(es)

ADR-Class: N/A  
DOT-Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

#### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

#### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

### 15. REGULATORY INFORMATION

#### USA - Federal regulations

## **TSCA - Toxic Substances Control Act**

### **TSCA inventory:**

All the components are listed on the TSCA inventory

### **TSCA listed substances:**

no substances listed

## **SARA - Superfund Amendments and Reauthorization Act**

### **Section 302 - Extremely Hazardous Substances:**

no substances listed

### **Section 304 - Hazardous substances:**

no substances listed

### **Section 313 - Toxic chemical list:**

no substances listed

## **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

### **Substance(s) listed under CERCLA:**

no substances listed

## **CAA - Clean Air Act**

### **CAA listed substances:**

no substances listed

## **CWA - Clean Water Act**

### **CWA listed substances:**

no substances listed

## **USA - State specific regulations**

### **California Proposition 65**

#### **Substance(s) listed under California Proposition 65:**

no substances listed

### **Massachusetts Right to know**

#### **Substance(s) listed under Massachusetts Right to know:**

no substances listed

### **Pennsylvania Right to know**

#### **Substance(s) listed under Pennsylvania Right to know:**

no substances listed

### **New Jersey Right to know**

#### **Substance(s) listed under New Jersey Right to know:**

no substances listed

## **Canada- Federal regulations**

### **DSL - Domestic Substances List**

#### **DSL Inventory:**

All the substances are listed in the DSL.

### **NDSL - Non Domestic Substances List**

#### **NDSL Inventory:**

no substances listed

### **NPRI - National Pollutant Release Inventory**

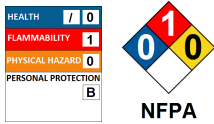
#### **Substances listed in NPRI:**

no substances listed

---

## **16. OTHER INFORMATION**

**Additional classification information**



HMIS Health: 0 = Minimal

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = Minimal

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

## Ficha de datos de seguridad

### APAC 610

Ficha de datos de seguridad con fecha del: 8/1/2016 - Revisión 2

Fecha de la primera edición: 5/27/2015

## 1. IDENTIFICACIÓN

### Identificador del producto

Identificación del preparado:

Nombre comercial: APAC 610

### Usos recomendados y restricciones de uso del producto:

Uso aconsejado: Adhesivo

Restricciones de uso N.A.

### Nombre, dirección y teléfono del fabricante, importador u otro responsable del producto

Proveedor: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Tel. 1-800-747-2722

### Números de emergencia (24 horas):

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. IDENTIFICACIÓN DE RIESGO(S)

### Clasificación del producto

0 El producto no se considera peligroso de acuerdo con el OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Elementos de la etiqueta

El producto no se considera peligroso de acuerdo con el OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingrediente(s) cuya toxicidad aguda se desconoce:

Ninguno

### Riesgos no identificados durante el proceso de clasificación

Ninguno

## 3. COMPOSICIÓN/INFORMACIÓN RELATIVA A LOS INGREDIENTES

### Sustancias

N.A.

### Preparados

Clasificación de las sustancias peligrosas según el 29 CFR 1910.1200 y clasificaciones relacionadas:

Ninguno

## 4. PRIMEROS AUXILIOS

### Descripción de los primeros auxilios

En caso de contacto con la piel:

Lavar abundantemente con agua y jabón.

En caso de contacto con los ojos:

Lavar inmediatamente con agua.

En caso de ingestión:

No inducir el vómito, busque atención médica inmediata presentando la SDS (Ficha de Datos de Seguridad) y la etiqueta de productos peligrosos.

En caso de inhalación:

Trasladar al paciente al aire libre y mantenerlo en reposo y abrigado.

### Principales síntomas y efectos, agudos y retrasados

N.A.

### Indicación de toda atención médica y de los tratamientos especiales necesarios

## 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

### Medios de extinción

Medios de extinción apropiados:

Agua.

Dióxido de carbono (CO<sub>2</sub>).

**Medios de extinción no apropiados:**

Ninguno en particular.

**Peligros específicos derivados de la sustancia o preparado**

No inhalar los gases producidos por la explosión y por la combustión.

La combustión produce humo pesado.

Productos peligrosos emitidos por la combustión de la sustancia o preparado: N.A.

Propiedades explosivas: N.A.

Propiedades oxidantes: N.A.

**Protecciones y recomendaciones para el personal de lucha contra incendios.**

Utilizar equipos respiratorios apropiados.

Recoger por separado el agua contaminada utilizada para extinguir el incendio. No descargarla en la red de alcantarillado.

Si es posible hacerlo de manera segura, retirar de inmediato del área en peligro los contenedores no dañados.

---

**6. MEDIDAS EN CASO DE VERTIDO ACCIDENTAL**

**Precauciones personales, equipo de protección y procedimientos de emergencia**

Usar los dispositivos de protección individual.

Llevar las personas a un lugar seguro.

Consultar las medidas de protección expuestas en los puntos 7 y 8.

**Métodos y material de contención y de limpieza**

Material apropiado para la recogida: material absorbente, orgánico, arena

Lavar con abundante agua.

---

**7. MANIPULACIÓN Y ALMACENAMIENTO**

**Precauciones para una manipulación segura**

Evitar el contacto con la piel y los ojos, la inhalación de vapores y vahos.

No comer ni beber durante el trabajo.

Remitirse también al apartado 8 para los equipos de protección recomendados.

**Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**

Temperatura de almacenamiento: N.A.

Materiales incompatibles:

Ninguno en particular.

Indicaciones para los locales:

Locales adecuadamente aireados.

---

**8. CONTROLES DE LA EXPOSICIÓN/PROTECCIÓN PERSONAL**

**Parámetros de control**

Ningún Dato Disponible

Controles técnicos apropiados: N.A.

**Medidas de protección individual**

Protección de los ojos:

No requerido para el uso normal. Operar según las buenas prácticas de trabajo.

Protección de la piel:

No se requiere ninguna precaución especial para el uso normal.

Protección de las manos:

No requerido para el uso normal.

Protección respiratoria:

N.A.

---

**9. PROPIEDADES FÍSICAS Y QUÍMICAS**

**Información sobre propiedades físicas y químicas básicas**

Estado físico: Líquido

Aspecto y color: Pasta crema

Olor: como: acrilato

Umbral de olor: N.A.

pH: 9.25

Punto de fusión/congelamiento: N.A.

Punto de ebullición inicial e intervalo de ebullición: >100 °C (212 °F)

Punto de ignición: Not Applicable

Velocidad de evaporación: Slower than ether

Límite superior/inferior de inflamabilidad o explosión: N.A.

Densidad de los vapores: N.A.



Presión de vapor: N.A.  
Densidad relativa: 1.10 g/cm<sup>3</sup>  
Hidrosolubilidad: N.A.  
Solubilidad en aceite: N.A.  
Coeficiente de reparto (n-octanol/agua): N.A.  
Temperatura de autoignición: N.A.  
Temperatura de descomposición: N.A.  
Viscosidad: N.A.  
Propiedades explosivas: N.A.  
Propiedades oxidantes: N.A.  
Inflamabilidad sólidos/gases: N.A.

**Información adicional**

Propiedades pertinentes de los grupos de sustancias: N.A.  
Miscibilidad: N.A.  
Liposolubilidad: N.A.  
Conductibilidad: N.A.

---

**10. ESTABILIDAD Y REACTIVIDAD**

**Reactividad**

Estable en condiciones normales

**Estabilidad química**

Información no Disponible

**Posibilidad de reacciones peligrosas**

Ninguno.

**Condiciones que deben evitarse**

Estable en condiciones normales.

**Materiales incompatibles**

Ninguna en particular.

**Productos de descomposición peligrosos**

Ninguno.

---

**11. INFORMACIÓN TOXICOLÓGICA**

**Información sobre los efectos toxicológicos**

Informaciones toxicológicas: Ningún Dato Disponible

**Sustancia(s) incluida(s) en las Monografías IARC:**

Ninguno

**Sustancia(s) incluida(s) como carcinógeno(s) OSHA:**

Ninguno

**Sustancia(s) incluida(s) como carcinógeno(s) NIOSH:**

Ninguno

**Sustancia(s) incluida(s) en el informe de la NTP sobre Carcinógenos:**

Ninguno

---

**12. INFORMACIÓN ECOLÓGICA**

**Toxicidad**

Utilizar técnicas de trabajo adecuadas para evitar la dispersión del producto en el medio ambiente.

Información Ecotoxicológica:

**Lista de propiedades eco-toxicológicas del producto**

Ningún Dato Disponible

**Persistencia y degradabilidad**

N.A.

**Potencial de bioacumulación**

N.A.

**Movilidad en el suelo**

N.A.

**Otros efectos adversos**

N.A.

---

### 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN

#### Métodos de tratamiento de residuos

Los residuos deben ser tratados de acuerdo con todas las regulaciones federales, estatales, provinciales y locales. Consulte a las autoridades antes de desecharlo.

---

### 14. INFORMACIÓN RELATIVA AL TRANSPORTE

#### Nivel de riesgo para el transporte

Número ADR-UN: N/A

DOT-Número ONU: N/A

Número -IATA-Un: N/A

Número-IMDG-Un: N/A

#### Designación oficial de transporte de la ONU

ADR-Designación del transporte: N/A

DOT-Nombre apropiado del envío: N/A

Nombre técnico-IATA: N/A

Nombre técnico-IMDG: N/A

#### Grupo de embalaje

ADR-Por carretera: N/A

DOT-Clase de riesgo: N/A

Clase-IATA: N/A

Clase-IMDG: N/A

#### Transporte a granel con arreglo al anexo II del MARPOL73/78 y del Código IBC

ADR-Grupo de embalaje: N/A

DOT-Grupo de embalaje: N/A

Grupo de embalaje-IATA: N/A

Grupo de embalaje-IMDG: N/A

#### Peligros para el medio ambiente

Agente de contaminación marina: No

Contaminante ambiental: N.A.

#### número ONU

N.A.

#### Precauciones especiales

Departamento de Transporte (DOT):

DOT-Precauciones especiales(s): N/A

DOT-Etiqueta(s): N/A

DOT-Símbolo: N/A

DOT-Aviones de cargo: N/A

DOT-Aviones de pasajeros: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Carretera y Ferrocarril (ADR-RID)

ADR-Etiquetado: N/A

ADR-Número de identificación del riesgo: N/A

ADR-Código de restricción en túnel: N/A

Aire (IATA)

Avión de pasajeros-IATA: N/A

Avión de carga-IATA: N/A

Etiquetado-IATA: N/A

Riesgo secundario-IATA: N/A

Erg-IATA: N/A

Disposiciones especiales-IATA: N/A

Mar (IMDG)

Código de estiba-IMDG: N/A

Nota de estiba-IMDG: N/A

Riesgo secundario-IMDG: N/A

Disposiciones especiales-IMDG: N/A

Página-IMDG: N/A

Etiquetado-IMDG: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

---

### 15. INFORMACIÓN REGULATORIA

## USA - Regulaciones Federales

### TSCA - Toxic Substances Control Act

#### Inventario TSCA:

Todos los componentes están incluidos en el inventario de la TSCA

#### Sustancias que aparecen en el TSCA:

Ninguna sustancia incluida

### SARA - Superfund Amendments and Reauthorization Act

#### Sección 302 - Sustancias extremadamente peligrosas:

Ninguna sustancia incluida

#### Sección 304 - Sustancias peligrosas:

Ninguna sustancia incluida

#### Sección 313 - Lista de sustancias tóxicas:

Ninguna sustancia incluida

### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

#### Sustancia(s) incluidas en CERCLA:

Ninguna sustancia incluida

### CAA - Clean Air Act

#### Sustancias incluidas en CAA:

Ninguna sustancia incluida

### CWA - Clean Water Act

#### Sustancias incluidas en CWA:

Ninguna sustancia incluida

## USA - Regulaciones específicas estatales

### California Proposition 65

#### Sustancia(s) incluidas en la Proposición 65 de California

Ninguna sustancia incluida

### Massachusetts Right to know

#### Sustancia(s) enumeradas en Massachusetts Right to know:

Ninguna sustancia incluida

### Pennsylvania Right to know

#### Sustancia(s) enumeradas en Pennsylvania Right to know

Ninguna sustancia incluida

### New Jersey Right to know

#### Sustancia(s) enumeradas en New Jersey Right to know:

Ninguna sustancia incluida

## Canada - Regulaciones Federales

### DSL - Lista de Sustancias Domésticas

#### Inventario DSL:

Todas las sustancias se enumeran en la DSL.

### NDSL - Lista de Sustancias No Domésticas

#### Inventario NDSL:

Ninguna sustancia incluida

### NPRI - Inventario Nacional de Emisiones de Contaminantes

#### Sustancias incluidas en el NPRI:

Ninguna sustancia incluida

## 16. OTRA INFORMACIÓN

Ficha de datos de seguridad con fecha del: 8/1/2016 - Revisión 2

Código de producto: 2847

### Información adicional de la clasificación



Peligro para la salud HMIS : 0 = Mínimo

Salud HMIS: ¿es crónico el peligro para la salud?: 0

Inflamabilidad HMIS : 1 = Combustible si se calienta

Reactividad HMIS : 0 = Mínimo

EPI HMIS: Gafas de seguridad, guantes

Peligro para la salud NFPA : 0 = Mínimo

Inflamabilidad NFPA : 1 = Combustible si se calienta

Reactividad NFPA : 0 = Mínimo

Riesgo especial NFPA: NINGUNO

Cuidado razonable se ha tomado en la preparación de esta información, pero el fabricante no ofrece ninguna garantía de comerciabilidad o cualquier otra garantía, expresa o implícita, con respecto a esta información. El fabricante no asume la responsabilidad y no asume ninguna responsabilidad por los daños directos, indirectos o consecuentes que resulten de su utilización. La información en este documento se presenta de buena fe y se cree que es exacta en la fecha efectiva. Es responsabilidad del comprador para asegurar que sus actividades cumplan con las leyes federales, estatales o provinciales, y las leyes locales.

Este documento ha sido preparado por una persona competente que ha recibido un entrenamiento adecuado

El usuario debe verificar que esta información sea apropiada y exacta en relación al uso específico que debe hacer del producto.

Esta ficha anula y sustituye toda edición precedente.

### Explicación de las abreviaturas y acrónimos utilizados en la ficha de datos de seguridad:

ADR: Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera.

RID: Normas relativas al transporte internacional de mercancías peligrosas por ferrocarril.

IMDG: Código marítimo internacional de mercancías peligrosas.

IATA: Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.

IATA-DGR: Normas aplicadas a las mercancías peligrosas por la "Asociación de Transporte Aéreo Internacional" (IATA).

ICAO: Organización de la Aviación Civil Internacional.

ICAO-TI: Instrucciones Técnicas de la "Organización de la Aviación Civil Internacional" (OACI).

GHS: Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.

CLP: Clasificación, etiquetado, embalaje.

EINECS: Catálogo Europeo de Sustancias Químicas Comercializadas.

INCI: Nomenclatura internacional de ingredientes cosméticos.

CAS: Chemical Abstracts Service (de la American Chemical Society).

GefStoffVO: Ordenanza sobre sustancias peligrosas, Alemania.

LC50: Concentración letal, para el 50% de la población expuesta.

LD50: Dosis letal, para el 50% de la población expuesta.

DNEL: Nivel sin efecto derivado.

PNEC: Concentración prevista sin efecto.

TLV: Valor límite umbral.

TWATLV: Valor límite umbral para el tiempo medio ponderado de 8 horas por día (Estándar ACGIH).

STEL: Nivel de exposición de corta duración.

STOT: Toxicidad específica en determinados órganos.

WGK: Clase de riesgos para las aguas (Alemania).

KSt: Coeficiente de explosión.

### Parágrafos modificados respecto la revisión anterior

- 1. IDENTIFICACIÓN DE LA SUSTANCIA O PREPARADO Y DE LA SOCIEDAD O EMPRESA
- 3. COMPOSICIÓN/INFORMACIÓN RELATIVA A LOS INGREDIENTES
- 15. INFORMACIÓN REGULATORIA
- 16. OTRA INFORMACIÓN

## Safety Data Sheet

### APAC 989

Safety Data Sheet dated: 8/5/2016 - version 4

Date of first edition: 5/29/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: APAC 989

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 1-800-747-2722

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Dam. 1	Causes serious eye damage.
Resp. Sens. 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	May cause an allergic skin reaction.

### Label elements

#### Symbols:



Danger

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261.1	Avoid breathing mist/vapours/spray.
P264.2	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310.B	Immediately call a doctor.
P321.A	Specific treatment (see supplementary instructions on this label).

P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311.B	If experiencing respiratory symptoms: Call a doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
10-25 %	Calcium oxide	CAS:1305-78-8	Skin Irrit. 2, H315; STOT SE 3, H335; Eye Dam. 1, H318
5-10 %	Soybean oil, methyl ester	CAS:67784-80-9	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.49-1 %	4,4' -Methylenediphenyl diisocyanate	CAS:101-68-8	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H351
0.25-0.49 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350; STOT RE 1, H372

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Obtain medical attention if skin related symptoms persist.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Calcium oxide	OSHA			5					
	ACGIH			2					upper respiratory tract irritation;
4,4' -Methylenediphenyl diisocyanate	ACGIH				0,005				respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI));
	OSHA		C			0,2	0,02		
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste beige

Odour: characteristic

Odour threshold: N.A.  
pH: 9.00  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: >100 °C (212 °F)  
Flash point: >100 °C (212 °F)  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: 1.1-1.2  
Vapour pressure: N.A.  
Relative density: 1.45 g/cm<sup>3</sup>  
Solubility in water: Soluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance groups relevant properties: N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Calcium oxide	a) acute toxicity	LD50 Oral Rat = 500mg/kg
4,4' -Methylenediphenyl diisocyanate	a) acute toxicity	LC50 Inhalation Rat = 369mg/m <sup>3</sup> 4h
Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity



- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

4,4' -Methylenediphenyl diisocyanate      Group 3  
 Silica Sand      Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
10-25 %	Calcium oxide	CAS: 1305-78-8	LC50 a) Aquatic acute toxicity Fish Cyprinus carpio= 1070mg/L 96h IUCLID
0.25-0.49 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: N/A  
 DOT-UN Number: N/A  
 IATA-Un number: N/A  
 IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A  
 DOT-Proper Shipping Name: N/A  
 IATA-Technical name: N/A  
 IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A  
 DOT-Hazard Class: N/A  
 IATA-Class: N/A  
 IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A  
 DOT-Packing group: N/A  
 IATA-Packing group: N/A  
 IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

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**15. REGULATORY INFORMATION**

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Calcium oxide	is listed in TSCA	Section 8b
Soybean oil, methyl ester	is listed in TSCA	Section 8b
4,4' -Methylenediphenyl diisocyanate	is listed in TSCA	Section 8b, Section 8a - PAIR
Silica Sand	is listed in TSCA	Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

4,4' -Methylenediphenyl diisocyanate

**Section 313 - Toxic chemical list:**

4,4' -Methylenediphenyl diisocyanate

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

4,4' -Methylenediphenyl diisocyanate                      Reportable quantity:                      5000                      pounds

**CAA - Clean Air Act**

**CAA listed substances:**

**CWA - Clean Water Act****CWA listed substances:**

no substances listed

**USA - State specific regulations****California Proposition 65****Substance(s) listed under California Proposition 65:**

Silica Sand Listed as carcinogen

**Massachusetts Right to know****Substance(s) listed under Massachusetts Right to know:**Calcium oxide  
4,4' -Methylenediphenyl diisocyanate  
Silica Sand**Pennsylvania Right to know****Substance(s) listed under Pennsylvania Right to know:**Calcium oxide  
4,4' -Methylenediphenyl diisocyanate  
Silica Sand**New Jersey Right to know****Substance(s) listed under New Jersey Right to know:**Calcium oxide  
4,4' -Methylenediphenyl diisocyanate  
Silica Sand**Canada- Federal regulations****DSL - Domestic Substances List****DSL Inventory:**

All the substances are listed in the DSL.

**NDSL - Non Domestic Substances List****NDSL Inventory:**

no substances listed

**NPRI - National Pollutant Release Inventory****Substances listed in NPRI:**

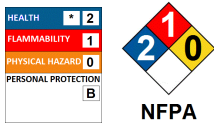
no substances listed

**16. OTHER INFORMATION**

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer .
H351	Suspected of causing cancer .
H372	Causes damage to organs through prolonged or repeated exposure .

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**Additional classification information**



HMIS Health: 2 = Moderate  
HMIS Health - Is health hazard chronic?: Yes  
HMIS Flammability: 1 = Combustible if heated  
HMIS Reactivity: 0 = Minimal  
HMIS P.P.E.: Safety glasses, gloves  
NFPA Health: 2 = Moderate  
NFPA Flammability: 1 = Combustible if heated  
NFPA Reactivity: 0 = Minimal  
NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- IMDG: International Maritime Code for Dangerous Goods.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- CLP: Classification, Labeling, Packaging.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- INCI: International Nomenclature of Cosmetic Ingredients.
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- LC50: Lethal concentration, for 50 percent of test population.
- LD50: Lethal dose, for 50 percent of test population.
- DNEL: Derived No Effect Level.
- PNEC: Predicted No Effect Concentration.
- TLV: Threshold Limiting Value.
- TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
- STEL: Short Term Exposure limit.
- STOT: Specific Target Organ Toxicity.
- WGK: German Water Hazard Class.
- KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

## Ficha de datos de seguridad

### APAC 989

Ficha de datos de seguridad con fecha del: 8/5/2016 - Revisión 4

Fecha de la primera edición: 5/29/2015

## 1. IDENTIFICACIÓN

### Identificador del producto

Identificación del preparado:

Nombre comercial: APAC 989

### Usos recomendados y restricciones de uso del producto:

Uso aconsejado: Adhesivo

Restricciones de uso N.A.

### Nombre, dirección y teléfono del fabricante, importador u otro responsable del producto

Proveedor: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Tel. 1-800-747-2722

### Números de emergencia (24 horas):

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. IDENTIFICACIÓN DE RIESGO(S)



### Clasificación del producto

Skin Irrit. 2	Provoca irritación cutánea.
Eye Dam. 1	Provoca lesiones oculares graves.
Resp. Sens. 1	Puede provocar síntomas de alergia o asma o dificultades respiratorias si se inhala.
Skin Sens. 1	Puede provocar una reacción cutánea alérgica.

### Elementos de la etiqueta

#### Símbolos:



Peligro

Código	Descripción
H315	Provoca irritación cutánea.
H317	Puede provocar una reacción cutánea alérgica.
H318	Provoca lesiones oculares graves.
H334	Puede provocar síntomas de alergia o asma o dificultades respiratorias si se inhala.
Código	Descripción
P201	Procurarse las instrucciones antes del uso.
P202	No manipular antes de haber leído y comprendido todas las precauciones de seguridad.
P261.1	Evite respirar la niebla/los vapores/el aerosol.
P264.2	Lavarse la piel cuidadosamente después de la manipulación.
P272	La ropa de trabajo contaminada no debe salir del lugar de trabajo.
P280	Usar guantes/ropa de protección/equipo de protección para los ojos/la cara.
P284	[En caso de ventilación insuficiente] Llevar equipo de protección respiratoria.
P302+P352.A	EN CASO DE CONTACTO CON LA PIEL: Lavar con abundante agua.
P304+P341	EN CASO DE INHALACIÓN: Si respira con dificultad, transportar la víctima al aire libre y mantenerla en reposo en una posición que le facilite la respiración.
P305+P351+P338	EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto, cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P308+P313	EN CASO DE exposición demostrada o supuesta: consultar a un médico.
P310.B	Llamar inmediatamente a un médico.

P321.A	Se necesita un tratamiento específico (véanse las instrucciones suplementarias en esta etiqueta).
P333+P313	En caso de irritación cutánea o sarpullido: consultar a un médico.
P342+P311.B	En caso de síntomas respiratorios: Llamar a un médico.
P362+P364	Quitar la ropa contaminada y lavarla antes de volverla a usar.
P405	Guardar bajo llave.
P501.A	Elimínese el producto / el recipiente en conformidad con la reglamentación.

#### **Ingrediente(s) cuya toxicidad aguda se desconoce:**

Ninguno

#### **Riesgos no identificados durante el proceso de clasificación**

Ninguno

Este producto contiene arena de sílice cristalina (arena de cuarzo). El AIRC ha clasificado a la arena sílice cristalina como un carcinógeno del Grupo 1. Tanto el IARC como el NTP consideran a la sílice cristalina como un reconocido carcinógeno humano. Esta clasificación está basada en la evidencia de la exposición crónica y de largo plazo que los trabajadores han tenido a las partículas de tamaño respirables de polvo de sílice cristalina. Debido a que este producto es en forma líquida o en pasta, no representa peligro debido al polvo; por lo tanto, esta clasificación es irrelevante. (Nota: el lijado del producto endurecido puede crear polvo de sílice que es peligroso).

### **3. COMPOSICIÓN/INFORMACIÓN RELATIVA A LOS INGREDIENTES**

#### **Sustancias**

N.A.

#### **Preparados**

Clasificación de las sustancias peligrosas según el 29 CFR 1910.1200 y clasificaciones relacionadas:

#### **Lista de los componentes**

<b>Cantidad</b>	<b>Nombre</b>	<b>Núm. Ident.</b>	<b>Clasificación</b>
10-25 %	Calcium oxide	CAS:1305-78-8	Skin Irrit. 2, H315; STOT SE 3, H335; Eye Dam. 1, H318
5-10 %	Soybean oil, methyl ester	CAS:67784-80-9	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.49-1 %	4,4'-Methylenediphenyl diisocyanate	CAS:101-68-8	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H351
0.25-0.49 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350; STOT RE 1, H372

### **4. PRIMEROS AUXILIOS**

#### **Descripción de los primeros auxilios**

En caso de contacto con la piel:

Quítese inmediatamente la ropa contaminada.

Obtenga atención médica si los síntomas cutáneos persisten.

Quitarse de inmediato la indumentaria contaminada y eliminarla de manera segura.

En caso de contacto con la piel, lavar de inmediato con abundante agua y jabón.

En caso de contacto con los ojos:

En caso de contacto con los ojos, enjuagarlos con agua durante un tiempo adecuado y manteniendo los párpados abiertos, consultar inmediatamente a un oftalmólogo.

Proteger el ojo ileso.

En caso de ingestión:

No inducir el vómito, busque atención médica inmediata presentando la SDS (Ficha de Datos de Seguridad) y la etiqueta de productos peligrosos.

En caso de inhalación:

Trasladar al paciente al aire libre y mantenerlo en reposo y abrigado.

#### **Principales síntomas y efectos, agudos y retrasados**

Irritación de los ojos

Daños en los ojos

Irritación cutánea

Eritema

#### **Indicación de toda atención médica y de los tratamientos especiales necesarios**

En caso de accidente o malestar, consultar inmediatamente a un médico (si es posible mostrarle las instrucciones de uso o la ficha de seguridad)

### **5. MEDIDAS DE LUCHA CONTRA INCENDIOS**

#### **Medios de extinción**

Medios de extinción apropiados:

Agua.

Dióxido de carbono (CO<sub>2</sub>).

#### **Medios de extinción no apropiados:**

Ninguno en particular.

## Peligros específicos derivados de la sustancia o preparado

- No inhalar los gases producidos por la explosión y por la combustión.
- La combustión produce humo pesado.
- Productos peligrosos emitidos por la combustión de la sustancia o preparado: N.A.
- Propiedades explosivas: N.A.
- Propiedades oxidantes: N.A.

## Protecciones y recomendaciones para el personal de lucha contra incendios.

- Utilizar equipos respiratorios apropiados.
- Recoger por separado el agua contaminada utilizada para extinguir el incendio. No descargarla en la red de alcantarillado.
- Si es posible hacerlo de manera segura, retirar de inmediato del área en peligro los contenedores no dañados.

## 6. MEDIDAS EN CASO DE VERTIDO ACCIDENTAL

### Precauciones personales, equipo de protección y procedimientos de emergencia

- Usar los dispositivos de protección individual.
- Llevar las personas a un lugar seguro.
- Consultar las medidas de protección expuestas en los puntos 7 y 8.

### Métodos y material de contención y de limpieza

- Material apropiado para la recogida: material absorbente, orgánico, arena
- Lavar con abundante agua.

## 7. MANIPULACIÓN Y ALMACENAMIENTO

### Precauciones para una manipulación segura

- Evitar el contacto con la piel y los ojos, la inhalación de vapores y vahos.
- Tenga el máximo cuidado al manipular o abrir el contenedor.
- No utilizar contenedores vacíos que no hayan sido previamente limpiados.
- Antes de realizar operaciones de transferencia, asegurarse de que no queden materiales residuos incompatibles en los contenedores.
- La indumentaria contaminada debe ser sustituida antes de ingresar a las áreas de comida.
- No comer ni beber durante el trabajo.
- Remitirse también al apartado 8 para los equipos de protección recomendados.

### Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

Temperatura de almacenamiento: N.A.

Materiales incompatibles:

- Ninguno en particular.

Indicaciones para los locales:

- Locales adecuadamente aireados.

## 8. CONTROLES DE LA EXPOSICIÓN/PROTECCIÓN PERSONAL

### Parámetros de control

Lista de los componentes en la fórmula con un valor OEL.

Componente	Tipo OEL	país	Límite (max).	Largo plazo mg/m3	Largo Plazo ppm	Corto plazo mg/m3	Corto plazo ppm	Comportamiento	Nota
Calcium oxide	OSHA			5					
	ACGIH			2					upper respiratory tract irritation;
4,4' -Methylenediphenyl diisocyanate	ACGIH				0,005				respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI));
	OSHA		C			0,2	0,02		
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Controles técnicos apropiados: N.A.

### Medidas de protección individual

Protección de los ojos:

- Utilizar gafas de protección cerradas, no usar lentes de contacto.

Protección de la piel:

- Utilizar indumentaria que garantice una protección total para la piel, por ejemplo de algodón, caucho, PVC o viton.

Protección de las manos:

- Utilizar guantes de protección que garanticen una protección total, por ejemplo de PVC, neopreno o caucho.

Protección respiratoria:

- Utilizar una protección respiratoria adecuada.

## 9. PROPIEDADES FÍSICAS Y QUÍMICAS

## Información sobre propiedades físicas y químicas básicas

Estado físico: Líquido  
Aspecto y color: Pasta beige  
Olor: característica  
Umbral de olor: N.A.  
pH: 9.00  
Punto de fusión/congelamiento: N.A.  
Punto de ebullición inicial e intervalo de ebullición: >100 °C (212 °F)  
Punto de ignición: >100 °C (212 °F)  
Velocidad de evaporación: N.A.  
Límite superior/inferior de inflamabilidad o explosión: N.A.  
Densidad de los vapores: 1.1-1.2  
Presión de vapor: N.A.  
Densidad relativa: 1.45 g/cm<sup>3</sup>  
Hidrosolubilidad: Soluble  
Solubilidad en aceite: N.A.  
Coeficiente de reparto (n-octanol/agua): N.A.  
Temperatura de autoignición: N.A.  
Temperatura de descomposición: N.A.  
Viscosidad: N.A.  
Propiedades explosivas: N.A.  
Propiedades oxidantes: N.A.  
Inflamabilidad sólidos/gases: N.A.

## Información adicional

Propiedades pertinentes de los grupos de sustancias: N.A.  
Miscibilidad: N.A.  
Liposolubilidad: N.A.  
Conductibilidad: N.A.

---

## 10. ESTABILIDAD Y REACTIVIDAD

### Reactividad

Estable en condiciones normales

### Estabilidad química

Información no Disponible

### Posibilidad de reacciones peligrosas

Ninguno.

### Condiciones que deben evitarse

Estable en condiciones normales.

### Materiales incompatibles

Ninguna en particular.

### Productos de descomposición peligrosos

Ninguno.

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## 11. INFORMACIÓN TOXICOLÓGICA

### Información sobre los efectos toxicológicos

#### Informaciones toxicológicas relativas al preparado:

No existen datos toxicológicos relativos al preparado. Considere la concentración individual de cada una de las sustancias para evaluar los efectos toxicológicos derivados de la exposición al preparado

#### A continuación, se han incluido las informaciones toxicológicas referentes a las principales sustancias presentes en el preparado:

Calcium oxide	a) toxicidad aguda	DL50 Oral Rata (macho) = 500mg / kg
4,4' -Methylenediphenyl diisocyanate	a) toxicidad aguda	CL50 Inhalación Rata (macho) = 369mg/m <sup>3</sup> 4h
Silica Sand	a) toxicidad aguda	DL50 Oral Rata (macho) = 500mg / kg

Si no se especifica lo contrario, los datos requeridos por el reglamento y que se indican a continuación deben considerarse no disponibles.

- a) toxicidad aguda
- b) corrosión/irritación cutánea
- c) lesiones/irritación ocular graves
- d) sensibilización respiratoria o cutánea



- e) mutagenicidad en células germinales
- f) carcinogenicidad
- g) toxicidad para la reproducción
- h) toxicidad específica en determinados órganos (STOT) - exposición única
- i) toxicidad específica en determinados órganos (STOT) - exposición repetida
- j) peligro de aspiración

**Sustancia(s) incluida(s) en las Monografías IARC:**

4,4' -Methylenediphenyl diisocyanate      Grupo 3  
 Silica Sand      Grupo 1

**Sustancia(s) incluida(s) como carcinógeno(s) OSHA:**

Silica Sand

**Sustancia(s) incluida(s) como carcinógeno(s) NIOSH:**

Silica Sand

**Sustancia(s) incluida(s) en el informe de la NTP sobre Carcinógenos:**

Silica Sand

## 12. INFORMACIÓN ECOLÓGICA

### Toxicidad

Utilizar técnicas de trabajo adecuadas para evitar la dispersión del producto en el medio ambiente.

Información Ecotoxicológica:

**Lista de componentes con propiedades ecotoxicológicas**

Cantidad	Componente	Núm. Ident.	Inform Ecotox
10-25 %	Calcium oxide	CAS: 1305-78-8	CL50 a) Toxicidad acuática aguda Pescado Cyprinus carpio= 1070mg / l 96h IUCLID
0.25-0.49 %	Silica Sand	CAS: 14808-60-7	CL50 a) Toxicidad acuática aguda carp> 10000,00000mg / l 72h

### Persistencia y degradabilidad

N.A.

### Potencial de bioacumulación

N.A.

### Movilidad en el suelo

N.A.

### Otros efectos adversos

N.A.

## 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN

### Métodos de tratamiento de residuos

Los residuos deben ser tratados de acuerdo con todas las regulaciones federales, estatales, provinciales y locales. Consulte a las autoridades antes de desecharlo.

## 14. INFORMACIÓN RELATIVA AL TRANSPORTE

### Nivel de riesgo para el transporte

Número ADR-UN: N/A  
 DOT-Número ONU: N/A  
 Número -IATA-Un: N/A  
 Número-IMDG-Un: N/A

### Designación oficial de transporte de la ONU

ADR-Designación del transporte: N/A  
 DOT-Nombre apropiado del envío: N/A  
 Nombre técnico-IATA: N/A  
 Nombre técnico-IMDG: N/A

### Grupo de embalaje

ADR-Por carretera: N/A  
 DOT-Clase de riesgo: N/A  
 Clase-IATA: N/A  
 Clase-IMDG: N/A

### Transporte a granel con arreglo al anexo II del MARPOL73/78 y del Código IBC

ADR-Grupo de embalaje: N/A

DOT-Grupo de embalaje: N/A  
Grupo de embalaje-IATA: N/A  
Grupo de embalaje-IMDG: N/A

### **Peligros para el medio ambiente**

Agente de contaminación marina: No  
Contaminante ambiental: N.A.

### **número ONU**

N.A.

### **Precauciones especiales**

Departamento de Transporte (DOT):

DOT-Precauciones especiales(s): N/A  
DOT-Etiqueta(s): N/A  
DOT-Símbolo: N/A  
DOT-Aviones de cargo: N/A  
DOT-Aviones de pasajeros: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Carretera y Ferrocarril (ADR-RID)

ADR-Etiquetado: N/A  
ADR-Número de identificación del riesgo: N/A  
ADR-Código de restricción en túnel: N/A

Aire (IATA)

Avión de pasajeros-IATA: N/A  
Avión de carga-IATA: N/A  
Etiquetado-IATA: N/A  
Riesgo secundario-IATA: N/A  
Erg-IATA: N/A  
Disposiciones especiales-IATA: N/A

Mar (IMDG)

Código de estiba-IMDG: N/A  
Nota de estiba-IMDG: N/A  
Riesgo secundario-IMDG: N/A  
Disposiciones especiales-IMDG: N/A  
Página-IMDG: N/A  
Etiquetado-IMDG: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

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## **15. INFORMACIÓN REGULATORIA**

### **USA - Regulaciones Federales**

#### **TSCA - Toxic Substances Control Act**

##### **Inventario TSCA:**

Todos los componentes están incluidos en el inventario de la TSCA

##### **Sustancias que aparecen en el TSCA:**

Calcium oxide	está incluida en el TSCA	Sección 8b
Soybean oil, methyl ester	está incluida en el TSCA	Sección 8b
4,4' -Methylenediphenyl diisocyanate	está incluida en el TSCA	Sección 8b, Sección 8a - PAIR
Silica Sand	está incluida en el TSCA	Sección 8b

#### **SARA - Superfund Amendments and Reauthorization Act**

##### **Sección 302 - Sustancias extremadamente peligrosas:**

Ninguna sustancia incluida

##### **Sección 304 - Sustancias peligrosas:**

4,4' -Methylenediphenyl diisocyanate

##### **Sección 313 - Lista de sustancias tóxicas:**

4,4' -Methylenediphenyl diisocyanate

#### **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Sustancia(s) incluidas en CERCLA:**

4,4' -Methylenediphenyl diisocyanate

Cantidad considerable:

5000

libras

**CAA - Clean Air Act****Sustancias incluidas en CAA:**

4,4' -Methylenediphenyl diisocyanate

está incluida en CAA Sección 112(b) - HAP, Sección 112(b) - HON

**CWA - Clean Water Act****Sustancias incluidas en CWA:**

Ninguna sustancia incluida

**USA - Regulaciones específicas estatales****California Proposition 65****Sustancia(s) incluidas en la Proposición 65 de California**

Silica Sand

Incluida como carcinógeno

**Massachusetts Right to know****Sustancia(s) enumeradas en Massachusetts Right to know:**

Calcium oxide

4,4' -Methylenediphenyl diisocyanate

Silica Sand

**Pennsylvania Right to know****Sustancia(s) enumeradas en Pennsylvania Right to know**

Calcium oxide

4,4' -Methylenediphenyl diisocyanate

Silica Sand

**New Jersey Right to know****Sustancia(s) enumeradas en New Jersey Right to know:**

Calcium oxide

4,4' -Methylenediphenyl diisocyanate

Silica Sand

**Canada - Regulaciones Federales****DSL - Lista de Sustancias Domésticas****Inventario DSL:**

Todas las sustancias se enumeran en la DSL.

**NDSL - Lista de Sustancias No Domésticas****Inventario NDSL:**

Ninguna sustancia incluida

**NPRI - Inventario Nacional de Emisiones de Contaminantes****Sustancias incluidas en el NPRI:**

Ninguna sustancia incluida

**16. OTRA INFORMACIÓN**

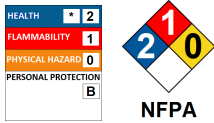
Código	Descripción
H315	Provoca irritación cutánea.
H317	Puede provocar una reacción cutánea alérgica.
H318	Provoca lesiones oculares graves.
H319	Provoca irritación ocular grave.
H320	Provoca irritación ocular.
H332	Nocivo si se inhala.
H334	Puede provocar síntomas de alergia o asma o dificultades respiratorias si se inhala.

- H335 Puede irritar las vías respiratorias.
- H350 Puede provocar cáncer .
- H351 Susceptible de provocar cáncer .
- H372 Provoca daños en los órganos tras exposiciones prolongadas o repetidas <indíquese la vía de exposición si se ha demostrado concluyentemente que ninguna otra vía es peligrosa>.

Ficha de datos de seguridad con fecha del: 8/5/2016 - Revisión 4

Código de producto: 1829

### Información adicional de la clasificación



- Peligro para la salud HMIS : 2 = Moderado  
 Salud HMIS: ¿es crónico el peligro para la salud?: Si  
 Inflamabilidad HMIS : 1 = Combustible si se calienta  
 Reactividad HMIS : 0 = Mínimo  
 EPI HMIS: Gafas de seguridad, guantes  
 Peligro para la salud NFPA : 2 = Moderado  
 Inflamabilidad NFPA : 1 = Combustible si se calienta  
 Reactividad NFPA : 0 = Mínimo  
 Riesgo especial NFPA: NINGUNO

Cuidado razonable se ha tomado en la preparación de esta información, pero el fabricante no ofrece ninguna garantía de comerciabilidad o cualquier otra garantía, expresa o implícita, con respecto a esta información. El fabricante no asume la responsabilidad y no asume ninguna responsabilidad por los daños directos, indirectos o consecuentes que resulten de su utilización. La información en este documento se presenta de buena fe y se cree que es exacta en la fecha efectiva. Es responsabilidad del comprador para asegurar que sus actividades cumplan con las leyes federales, estatales o provinciales, y las leyes locales.

Este documento ha sido preparado por una persona competente que ha recibido un entrenamiento adecuado

El usuario debe verificar que esta información sea apropiada y exacta en relación al uso específico que debe hacer del producto.

Esta ficha anula y sustituye toda edición precedente.

### Explicación de las abreviaturas y acrónimos utilizados en la ficha de datos de seguridad:

- ADR: Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera.
- RID: Normas relativas al transporte internacional de mercancías peligrosas por ferrocarril.
- IMDG: Código marítimo internacional de mercancías peligrosas.
- IATA: Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.
- IATA-DGR: Normas aplicadas a las mercancías peligrosas por la "Asociación de Transporte Aéreo Internacional" (IATA).
- ICAO: Organización de la Aviación Civil Internacional.
- ICAO-TI: Instrucciones Técnicas de la "Organización de la Aviación Civil Internacional" (OACI).
- GHS: Sistema Globalmente Armonizado de clasificación y etiquetado de productos químicos.
- CLP: Clasificación, etiquetado, embalaje.
- EINECS: Catálogo Europeo de Sustancias Químicas Comercializadas.
- INCI: Nomenclatura internacional de ingredientes cosméticos.
- CAS: Chemical Abstracts Service (de la American Chemical Society).
- GefStoffVO: Ordenanza sobre sustancias peligrosas, Alemania.
- LC50: Concentración letal, para el 50% de la población expuesta.
- LD50: Dosis letal, para el 50% de la población expuesta.
- DNEL: Nivel sin efecto derivado.
- PNEC: Concentración prevista sin efecto.
- TLV: Valor límite umbral.
- TWATLV: Valor límite umbral para el tiempo medio ponderado de 8 horas por día (Estándar ACGIH).
- STEL: Nivel de exposición de corta duración.
- STOT: Toxicidad específica en determinados órganos.
- WGK: Clase de riesgos para las aguas (Alemania).
- KSt: Coeficiente de explosión.

### Parágrafos modificados respecto la revisión anterior

- 1. IDENTIFICACIÓN DE LA SUSTANCIA O PREPARADO Y DE LA SOCIEDAD O EMPRESA
- 2. IDENTIFICACIÓN DE RIESGOS
- 3. COMPOSICIÓN/INFORMACIÓN RELATIVA A LOS INGREDIENTES
- 9. PROPIEDADES FÍSICAS Y QUÍMICAS
- 12. INFORMACIÓN ECOLÓGICA
- 15. INFORMACIÓN REGULATORIA
- 16. OTRA INFORMACIÓN

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's name and address:



ARDEX Engineered Cements  
400 Ardex Park Dr.  
Aliquippa, PA 15001 USA

Supplier's name and address:

Refer to Manufacturer

Information Telephone No. : (724) 203-5000  
Website Address : <http://www.ardexamericas.com>  
24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)  
Product Identifier : **ARDEX CA 20 P**  
Product ID No. : N/Av  
Trade Name/Synonyms : ARDEX CA 20 P  
Material Use : Multi-Purpose Construction Adhesive and Sealant  
Uses Advised Against : No information available

### SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)  
Serious Eye Damage/Irritation, Category 2A.

GHS Pictograms



Signal Word

Warning

Hazard Statements

Causes serious eye irritation.

Precautionary Statements

Wear protective gloves/eye protection. Wash hands and exposed skin thoroughly after handling. Protect from sunlight. Do not subject to grinding. Store in a dry, well ventilated place, in a closed container. Protect from freezing. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

During normal usage of the product as recommended, airborne dusts will not be present. See Section 7 (Handling and Storage) for further details.

Hazards Not Otherwise Classified

Contact with moisture liberates methanol.

% With Unknown Acute Toxicity : Up to 35% by weight of this product consists of ingredients with unknown acute toxicity.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
3-(Trimethoxysilyl)-propylamine	13822-56-5	1.00 – 5.00
Trimethoxyvinylsilane	2768-02-7	0.10 – 1.00
Methanol	67-56-1	< 0.1

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

## SECTION 4 – FIRST AID MEASURES

- General** : Call a Poison Center or doctor if you feel unwell.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: call a doctor/physician.
- Skin contact** : Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- Notes for Physician** : Treat symptomatically.

### Signs and symptoms of short-term (acute) exposure

- Inhalation* : May cause minor, temporary irritation to respiratory tract. Symptoms may include coughing.
- Skin* : May cause mild skin irritation. Symptoms may include redness and itching.
- Eyes* : Causes serious irritation to eyes. Symptoms may include redness, itching, blurred vision or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

### Effects of long-term (chronic) exposure

- : Not expected to cause additional health effects due to chronic exposure.

### Indication of need for immediate medical attention or special treatment

- : Difficulty breathing persists after removing the person to fresh air.
- Any exposure to the eye which causes irritation.
- Ingestion.

## SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, appropriate foam or water fog.
- Unsuitable extinguishing media** : Water jet may spread the fire.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, nitrogen oxides, and other toxic vapors and gases that are common to thermal degradation of organic compounds.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.
- Environmental precautions** : Do not allow material to enter drains or contaminate ground water system.
- Fire hazards/conditions of flammability** : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
- Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)** : Not flammable

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.
- Protective equipment** : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
- Emergency Procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002). Outside of the U.S. call the emergency number listed in Section 1.  
US CERCLA Reportable quantity (RQ): Methanol: 5000 lbs. (2270 kg)
- Methods and materials for containment and cleaning up** : Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and contaminated absorbent material, and place in suitable container for later disposal (see Section 13). Residual of product, while still wet, can be cleaned up with warm soapy water. Spilled material may create a slip hazard. Notify the appropriate authorities as required.
- Prohibited materials** : None.
- Environmental precautions** : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.
- Reference to other sections** : See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

- Safe handling procedures** : Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing flooring (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly closed.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Keep from freezing. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.
- Incompatible materials** : See Section 10.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Permissible Exposure Limits** : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
3-(Trimethoxysilyl)-propylamine	13822-56-5	N/Av	N/Av	N/Av	N/Av
Trimethoxyvinylsilane	2768-02-7	N/Av	N/Av	N/Av	N/Av
Methanol	67-56-1	200 ppm	250 ppm	260 mg/m <sup>3</sup>	325 mg/m <sup>3</sup>

- Engineering Controls** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.
- Personal Protection Equipment**
- Eye / face protection** : Safety glasses must be worn when using this product.

- Skin protection** : Wear chemical resistant protective clothing and impervious gloves. Glove materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.
- Body protection** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.
- Respiratory protection** : If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.
- Site safety equipment** : An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- |   |                          |   |                   |
|---|--------------------------|---|-------------------|
| <b>Physical state</b>                       | : Paste                  | <b>Appearance</b>                             | : Off-white paste |
| <b>Odor</b>                                 | : None.                  | <b>Odor threshold</b>                         | : N/Av            |
| <b>pH</b>                                   | : N/Av                   | <b>Specific gravity</b>                       | : 1.44            |
| <b>Boiling point</b>                        | : N/Av                   | <b>Coefficient of water/oil distribution</b>  | : N/Av            |
| <b>Melting/Freezing point</b>               | : N/Av                   | <b>Solubility in water</b>                    | : insoluble       |
| <b>Vapor pressure (mm Hg @ 20°C / 68°F)</b> | : N/Av                   | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av            |
| <b>Vapor density (Air = 1)</b>              | : N/Av                   | <b>Volatiles (% by weight)</b>                | : N/Av            |
| <b>Volatile organic compounds (VOCs)</b>    | : 0 g/L SCAQMD Rule 1168 |   |                   |
| <b>Particle size</b>                        | : N/Av                   | <b>Flammability classification</b>            | : Not flammable   |
| <b>Flash point</b>                          | : N/Av                   | <b>Lower flammable limit (% by vol)</b>       | : Not available   |
| <b>Flash point method</b>                   | : N/Av                   | <b>Upper flammable limit (% by vol)</b>       | : Not available   |
| <b>Auto-ignition temperature</b>            | : N/Av                   | <b>Decomposition temperature</b>              | : Not available   |
| <b>Viscosity</b>                            | : Not available          | <b>Oxidizing properties</b>                   | : Not available   |
- Explosion data: Sensitivity to mechanical impact / static discharge**  
: Not expected to be sensitive to mechanical impact or static discharge.

## SECTION 10 – REACTIVITY AND STABILITY INFORMATION

- Reactivity** : Reaction with water (humidity, moisture) liberates Methanol.
- Stability** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : High temperatures.
- Materials to avoid and incompatibility** : Acids, Oxidizing agents, water.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- Routes of exposure** : *Inhalation*: YES    *Skin Absorption*: NO    *Skin and Eyes*: Yes    *Ingestion*: YES
- Symptoms of exposure** : See Section 4.
- Calculated Acute Toxicity Estimates for the Product**
  - Inhalation* : Not Available
  - Oral* : Not Available
  - Dermal* : Not Available
- Toxicological data** : There are no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

	LC50 (4 hr)	LD50
--	-------------	------



Ingredients	Inhalation, rat	Oral, rat	Dermal, rabbit
3-(Trimethoxysilyl)-propylamine	N/Av	> 2000 mg/kg	> 2000 mg/kg
Trimethoxyvinylsilane	16.8 mg/L	7120 mg/kg	3540 mg/kg
Methanol	85.26 mg/L	5628 mg/kg	15800 mg/kg

- Skin corrosion or irritation** : May cause mild irritation to skin.
- Serious eye damage / eye irritation** : Seriously irritating to eyes.
- Respiratory or skin sensitization** : None known.
- Germ cell mutagenicity** : None known.
- Carcinogenic status** : This product contains trace amounts of Crystalline silica. Crystalline silica (respirable size) is classified as carcinogenic by inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). During normal usage of the product as recommended, airborne dusts will not be present. See Section 7 for more information. No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : None known.
- Specific Target Organ Toxicity, Single Exposure** : None known.
- Specific Target Organ Toxicity, Repeated Exposure** : None known.
- Aspiration hazard** : None known.
- Additional information** : Trace amounts of Methanol are evolved when the product is exposed to moisture. At high levels of exposure, Methanol is known to be toxic to humans, and causes Central Nervous System effects as well as visual effects, including blindness. It has been associated with birth defects in laboratory animals. Evidence suggests that primates (including humans) are more sensitive to Methanol exposure than rats and other rodents. The level of Methanol evolved from this product is much lower than the levels investigated in the studies mentioned above.

## SECTION 12 – ECOLOGICAL INFORMATION

- Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Ecotoxicological** : No data is available on the product itself. Information on components is listed below.
  - 3-(Trimethoxysilyl)propylamine [13822-56-5]
    - NOEC, (72h), *Desmodemus subspicatus*: 1.3 mg/L
    - EC50, (5.75h), *Pseudomonas putida*: 43 mg/L
    - LC50, (48h), *Daphnia magna*: 331 mg/L
    - LC50, (96h), *Brachidanio rerio*: 934 mg/L
    - EC50 (72h), *Desmodemus subspicatus*: > 603 mg/L
  - Trimethoxyvinyl silane [2768-02-7]
    - EC50, (48h), *Daphnia magna*: 168.7 mg/L
    - EC10, (5h), *Pseudomonas putida*: 1000 mg/L
    - LC50, (96h), *Oncorhynchus mykiss*: 191 mg/L
    - EC50, (7d), *Pseudokirchneriella subcapitata*: 210 mg/L
  - Methanol [67-56-1]
    - EC50, (48h), *Daphnia magna*: > 10,000 mg/L
    - LC50, (96h), *Lepomis machrochirus*: 15,400 mg/L

- Biodegradability** : No data available.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- PBT and vPvB assessment** : No data available.
- Other adverse effects** : No data available.

## SECTION 13 – DISPOSAL CONSIDERATION

- Handling for disposal** : Handle waste according to recommendations in Section 7.

- Methods of disposal** : You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 – TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None				

**SECTION 15 – REGULATORY INFORMATION**

**Canadian Information:**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) Health Hazard

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

**U.S. State Right To Know Laws**

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer. It contains trace levels of crystalline silica, of which the respirable particles (< 4 micron diameter) may cause cancer by inhalation.

Other State Right to Know Laws: Limestone [CAS# 1317-65-3] (MA, MN, NJ, PA, RI); Methanol [CAS # 67-56-1] (CA, MN, NJ, PA, RI); Crystalline silica [CAS# 14808-60-7] (MA, MN, NJ, PA, RI).

## SECTION 16 – OTHER INFORMATION

HMIS Rating : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
*Health: \*1 Flammability 1 Physical Hazard 0 PPE: Gloves, safety glasses*

**Legend** :

- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- DSL: Domestic Substances List
- EPA: Environmental Protection Agency
- GHS: Globally Harmonized System
- HPR: Hazardous Products Regulations
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- N/Av: Not Available
- N/Ap: Not Applicable
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

### Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. ARDEX Engineered Cements will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

**Prepared By:**  
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Visit our Website: <http://www.ardexamericas.com>

**Revision date:** : 24-Aug-2016

**End of Document**

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's name and address:



ARDEX Engineered Cements  
400 Ardex Park Dr.  
Aliquippa, PA 15001 USA

Supplier's name and address:

Refer to Manufacturer

Information Telephone No. : (888) 512-7339 or (724) 203-5000  
Website Address : <http://www.ardexamericas.com>  
24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)  
Product Identifier : **ARDEX CP™ Concrete Patch**  
Product ID No. : 70011281  
Trade Name/Synonyms : CP  
Material Use : Fast Setting Trowelable Patch for Repairing Concrete.  
Uses Advised Against : No information available

### SECTION 2 – HAZARDS IDENTIFICATION

**GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)**

Skin corrosion/irritation, Category 1A  
Serious eye damage/eye irritation, Category 1  
Carcinogenicity, Category 1A  
Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3  
Specific target organ toxicity, repeated exposure, Category 1.

**GHS Pictograms**



**Signal Word**

Danger

**Hazard Statements**

Causes severe skin burns and eye damage.  
May cause cancer by inhalation.  
May cause respiratory irritation.  
Causes damage to lungs through prolonged or repeated inhalation.

**Precautionary Statements**

Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

**Hazards Not Otherwise Classified**

None

**% With Unknown Acute Toxicity** : Up to 84% by weight of this product consists of ingredients with unknown acute toxicity.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Crystalline silica, quartz	14808-60-7	30 – 60
Calcium aluminat cement	65997-16-2	10 – 30
Portland cement	65997-15-1	10 – 30
Calcium sulfate	7778-18-9	5 – 10
Limestone	1317-65-3	5 – 10
Vinyl acetate copolymer	24937-78-8	1 - 5
Amorphous fumed silica	69012-64-2	1 – 5

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

### SECTION 4 – FIRST AID MEASURES

- General** : Call a Poison Center or doctor if you feel unwell.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: call a doctor/physician.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Seek immediate medical attention/advice.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- Notes for Physician** : Treat symptomatically.

**Signs and symptoms of short-term (acute) exposure**

- Inhalation* : Symptoms may include coughing and shortness of breath.
- Skin* : Symptoms may include redness and itching. Contact with wet material, or moist areas of skin, causes skin burns. Skin thickening, cracking, or fissuring may occur.
- Eyes* : Direct contact may strongly irritate or burn the eyes. Could cause blindness.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

**Effects of long-term (chronic) exposure**

- : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease).

**Indication of need for immediate medical attention or special treatment**

- : Difficulty breathing persists after removing the person to fresh air.
- Any burn to the skin.
- Any exposure to the eye which causes irritation.
- Ingestion.

### SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, foam.
- Unsuitable extinguishing media** : Water. Contact with water may cause hydration and formation of caustic alkaline material.
- Hazardous combustion products** : Calcium oxide, calcium oxalate, vinyl acetate, acetic acid, formic acid, formaldehydes, carbon monoxide, and carbon dioxide.

**Special fire-fighting procedures/equipment**

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

**Environmental precautions** : Do not allow material to enter drains or contaminate ground water system.

**Fire hazards/conditions of flammability**

- : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**

- : Not flammable

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.

**Protective equipment** : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Emergency Procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

US CERCLA Reportable quantity (RQ): None reported.

**Methods and materials for containment and cleaning up**

- : Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see Section 13). Avoid adding water, material becomes alkaline when wet. Notify the appropriate authorities as required.

**Prohibited materials** : Avoid adding water, material becomes alkaline when wet.

**Environmental precautions** : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.

**Reference to other sections** : See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Special instructions** : Mixing the product according to the directions in the Technical Data Sheet will produce airborne dusts, including crystalline silica. Wear a dust mask (N-95 or higher) while mixing. Use ventilation to control levels of dust in the work area.

**Safe handling procedures** : Corrosive! Wear chemically resistant protective equipment during handling. Use in a well-ventilated area. Training the workers on the potential health hazards associated with product dust is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid wet or humid conditions. Keep away from acids and incompatibles. Avoid and control operations which create dust. Keep containers tightly closed when not in use. Wash thoroughly after handling.

**Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

**Incompatible materials** : See Section 10.

**Special packaging materials** : Always keep in containers made of the same materials as the supply container.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible Exposure Limits** : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Threshold Limit Values for the Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Limestone	1317-65-3	TLV Withdrawn In 2007	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Calcium aluminate cement	65997-16-2	1 mg/m <sup>3</sup> (as Aluminum metal and insoluble compounds)	N/Av	N/Av	N/Av
Calcium sulfate	7778-18-9	10 mg/m <sup>3</sup> (inhalable)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Portland cement	65997-15-1	1 mg/m <sup>3</sup> (respirable, no asbestos and < 1% crystalline silica)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Vinyl acetate copolymer	24937-78-8	10 mg/m <sup>3</sup> (Total dust); 3 mg/m <sup>3</sup> (respirable)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Crystalline silica, quartz	14808-60-7	0.025 mg/m <sup>3</sup> (respirable fraction)	N/Av	0.1 mg/m <sup>3</sup> (respirable) (final rule limit)	N/Av
Amorphous fumed silica	69012-64-2	2 mg/m <sup>3</sup> (respirable)	N/Av	N/Av	N/Av

**Engineering Controls** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

**Personal Protection Equipment**

**Eye / face protection** : Safety glasses or chemical goggles must be worn when using this product. Additionally, a face shield is recommended if splashing is possible.

**Skin protection** : Wear chemical resistant protective clothing and impervious gloves. Glove materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

**Body protection** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

**Respiratory protection** : If work process generates excessive quantities of dust, or exposures in excess of any PEL, wear an appropriate particulate respirator (dust mask). Mask should be rated at N-95 or higher.

**Site safety equipment** : An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations** : Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: solid	<b>Appearance</b>	: gray powder
<b>Odor</b>	: No odor	<b>Odor threshold</b>	: N/Av
<b>pH</b>	: 10 – 12	<b>Specific gravity</b>	: 2.7 – 3.1
<b>Boiling point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	: N/Av

<b>Melting/Freezing point</b>	: N/Av	<b>Solubility in water</b>	: < 55 g/L
<b>Vapor pressure (mm Hg @ 20°C / 68°F)</b>	: N/Av	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Vapor density (Air = 1)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: N/Av
<b>Volatile organic compounds (VOCs)</b>	: 0 g/L		
<b>Particle size</b>	: N/Av	<b>Flammability classification</b>	: Not flammable
<b>Flash point</b>	: N/Av	<b>Lower flammable limit (% by vol)</b>	: Not available
<b>Flash point method</b>	: N/Av	<b>Upper flammable limit (% by vol)</b>	: Not available
<b>Auto-ignition temperature</b>	: N/Av	<b>Decomposition temperature</b>	: Not available
<b>Viscosity</b>	: Not available	<b>Oxidizing properties</b>	: Not available
<b>Explosion data: Sensitivity to mechanical impact / static discharge</b>			
	: Not expected to be sensitive to mechanical impact or static discharge.		

## SECTION 10 – REACTIVITY AND STABILITY INFORMATION

<b>Reactivity</b>	: Contact with water may cause hydration and formation of caustic calcium hydroxide.
<b>Stability</b>	: Stable under the recommended storage and handling conditions prescribed.
<b>Hazardous reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: High temperatures.
<b>Materials to avoid and incompatibility</b>	: Oxidizing agents.
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Routes of exposure</b>	: <i>Inhalation</i> : YES <i>Skin Absorption</i> : NO <i>Skin and Eyes</i> : Yes <i>Ingestion</i> : YES
<b>Symptoms of exposure</b>	: See Section 4.
<b>Calculated Acute Toxicity Estimates for the Product</b>	
<i>Inhalation</i>	: Not Available
<i>Oral</i>	: Not Available
<i>Dermal</i>	: Not Available
<b>Toxicological data</b>	: There are insufficient data for estimating the product's acute toxicity. Several components become caustic in the presence of water, and therefore should not be inhaled, ingested, or allowed to contact skin. See below for individual ingredient acute toxicity data.

Acute Toxicity Parameters for the Ingredients	CAS #	LC50, Inhalation mg/L, Rat, 4 hr	LD50, Oral mg/kg, rat	LD50, Dermal mg/kg, rabbit
Limestone	1317-65-3	N/Av	6,450	N/Av
Calcium aluminat cement	65997-16-2	N/Av	N/Av	N/Av
Calcium sulfate	7778-18-9	N/Av	> 3,000	N/Av
Portland cement	65997-15-1	N/Av	N/Av	N/Av
Vinyl acetate copolymer	24937-78-8	N/Av	> 1,000	N/Av
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av
Amorphous fumed silica	69012-64-2	N/Av	>22,500	N/Av

<b>Skin corrosion or irritation</b>	: Causes skin corrosion when wet.
<b>Serious eye damage / eye irritation</b>	: Causes eye burns. May cause blindness.
<b>Respiratory or skin sensitization</b>	: Portland cement may cause an allergic skin reaction, in hypersensitive individuals possibly due to trace amounts of chromium.
<b>Germ cell mutagenicity</b>	: None known.



- Carcinogenic status** : This product contains Crystalline silica. Crystalline silica (respirable size) is classified as carcinogenic by inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : None known.
- Specific Target Organ Toxicity, Single Exposure** : May cause respiratory irritation.
- Specific Target Organ Toxicity, Repeated Exposure** : May cause lung damage upon repeated or prolonged exposure.
- Aspiration hazard** : None known.
- Additional information** : N/Av

**SECTION 12 – ECOLOGICAL INFORMATION**

- Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Ecotoxicological** : No data is available on the product itself.
- Ecotoxicity** : No data available.
- Biodegradability** : No data available.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- PBT and vPvB assessment** : No data available.
- Other adverse effects** : No data available.

**SECTION 13 – DISPOSAL CONSIDERATION**

- Handling for disposal** : Handle waste according to recommendations in Section 7.
- Methods of disposal** : You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 – TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
<b>TDG</b>	<b>None</b>	This product is not regulated according to Canadian TDG regulations.	<b>None</b>	<b>None</b>	<b>None</b>
<b>TDG Additional Information</b>	<b>None</b>				
<b>49 CFR/DOT</b>	<b>None</b>	This product is not regulated according to US DOT regulations.	<b>None</b>	<b>None</b>	<b>None</b>
<b>49 CFR/DOT Additional Information</b>	<b>None</b>				

**SECTION 15 – REGULATORY INFORMATION**

**Canadian Information:**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:  
Immediate (Acute) Health Hazard  
Chronic Health Hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right To Know Laws  
California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer. It contains Crystalline silica, quartz.

Other State Right to Know Laws:

Ingredient on State RTK Law?	CAS #	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	YES	No	YES	YES	YES
Portland cement	65997-15-1	No	YES	No	YES	YES	YES
Calcium sulfate	7778-18-9	No	YES	No	YES	YES	No
Crystalline silica, quartz	14808-60-7	No	YES	YES	YES	YES	YES
Amorphous fumed silica	69012-64-2	No	YES	No	YES	No	No

**SECTION 16 – OTHER INFORMATION**

HMIS Rating : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
*Health: \*3 Flammability 0 Physical Hazard 1 PPE: G*  
Gloves, safety glasses, and dust respirator

Legend : ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
DSL: Domestic Substances List  
EPA: Environmental Protection Agency  
GHS: Globally Harmonized System  
HPR: Hazardous Products Regulations  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
N/Av: Not Available  
N/Ap: Not Applicable  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

#### **Disclaimer of Liability**

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. ARDEX Engineered Cements will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

**Prepared By:**  
ARDEX Engineered Cements  
400 Ardex Park Drive  
Aliquippa, PA, U.S.A.  
15001

(724) 203-5000  
Visit our Website: <http://www.ardexamericas.com>

**Revision date:** : 05-Mar-2015

**End of Document**

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's name and address:



ARDEX Engineered Cements  
400 Ardex Park Dr.  
Aliquippa, PA 15001 USA

Supplier's name and address:

Refer to Manufacturer

Information Telephone No. : (888) 512-7339 or (724) 203-5000  
Website Address : <http://www.ardexamericas.com>  
24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)  
Product Identifier : **ARDEX FEATHER FINISH®**  
Product ID No. : 70012141  
Trade Name/Synonyms : SD-F  
Material Use : Cement-based Finishing Underlayment  
Uses Advised Against : No information available.

### SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Skin corrosion/irritation, Category 1A  
Serious eye damage/eye irritation, Category 1  
Carcinogenicity, Category 1A  
Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3  
Specific target organ toxicity, repeated exposure, Category 1.

GHS Pictograms



Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.  
May cause cancer by inhalation.  
May cause respiratory irritation.  
Causes damage to lungs through prolonged or repeated inhalation.

Precautionary Statements

Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Classified

None

**% With Unknown Acute Toxicity** : Up to 40% by weight of this product consists of ingredients with unknown acute toxicity.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Calcium aluminate cement	65997-16-2	30 – 60
Limestone	1317-65-3	30 – 60
Calcium sulfate	7778-18-9	10 – 30
Vinyl acetate copolymer	24937-78-8	10 – 30
Cellulose	9004-34-6	1 - 5
Portland cement	65997-15-1	1 - 5
Crystalline silica, quartz**	14808-60-7	0.1 – 0.25

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

\*\*Note: Crystalline Silica (Quartz) is not intentionally added to this product, but is a naturally occurring component in limestone (Calcium Carbonate).

### SECTION 4 – FIRST AID MEASURES

- General** : Call a Poison Center or doctor if you feel unwell.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: call a doctor/physician.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Seek immediate medical attention/advice.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- Notes for Physician** : Treat symptomatically.

#### Signs and symptoms of short-term (acute) exposure

- Inhalation* : Symptoms may include coughing and shortness of breath.
- Skin* : Symptoms may include redness and itching. Contact with wet material, or moist areas of skin, causes skin burns. Skin thickening, cracking, or fissuring may occur.
- Eyes* : Direct contact may strongly irritate or burn the eyes. Could cause blindness.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

#### Effects of long-term (chronic) exposure

- : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease).

#### Indication of need for immediate medical attention or special treatment

- : Difficulty breathing persists after removing the person to fresh air.  
Any burn to the skin.  
Any exposure to the eye which causes irritation.  
Ingestion.

### SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, foam.

**Unsuitable extinguishing media** : Water. Contact with water may cause hydration and formation of caustic alkaline material.

**Hazardous combustion products** : Calcium oxide, calcium oxalate, vinyl acetate, acetic acid, formic acid, formaldehydes, carbon monoxide, and carbon dioxide.

**Special fire-fighting procedures/equipment**

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

**Environmental precautions** : Do not allow material to enter drains or contaminate ground water system.

**Fire hazards/conditions of flammability**

: Not flammable under normal conditions of use.

**Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**

: Not flammable

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.

**Protective equipment** : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Emergency Procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002). Outside of the U.S. call the emergency number listed in Section 1.

US CERCLA Reportable quantity (RQ): None reported.

**Methods and materials for containment and cleaning up**

: Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see Section 13). Avoid adding water, material becomes alkaline when wet. Notify the appropriate authorities as required.

**Prohibited materials** : Avoid adding water, material becomes alkaline when wet.

**Environmental precautions** : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.

**Reference to other sections** : See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Special instructions** : Mixing the product according to the directions in the Technical Data Sheet will produce airborne dusts, including crystalline silica. Wear a dust mask (N-95 or higher) while mixing. Use ventilation to control levels of dust in the work area.

**Safe handling procedures** : Corrosive! Wear chemically resistant protective equipment during handling. Use in a well-ventilated area. Training the workers on the potential health hazards associated with product dust is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid wet or humid conditions. Keep away from acids and incompatibles. Avoid and control operations which create dust. Keep containers tightly closed when not in use. Wash thoroughly after handling.

**Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

**Incompatible materials** : See Section 10.

**Special packaging materials** : Always keep in containers made of the same materials as the supply container.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible Exposure Limits** : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Threshold Limit Values for the Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Limestone	1317-65-3	TLV Withdrawn In 2007	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Calcium aluminate cement	65997-16-2	1 mg/m <sup>3</sup> (as Aluminum metal and insoluble compounds)	N/Av	N/Av	N/Av
Calcium sulfate	7778-18-9	10 mg/m <sup>3</sup> (inhalable)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Portland cement	65997-15-1	1 mg/m <sup>3</sup> (respirable, no asbestos and < 1% crystalline silica)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Cellulose	9004-34-6	10 mg/m <sup>3</sup>	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Vinyl acetate copolymer	24937-78-8	10 mg/m <sup>3</sup> (Total dust); 3 mg/m <sup>3</sup> (respirable)	N/Av	15 mg/m <sup>3</sup> (Total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av
Crystalline silica, quartz	14808-60-7	0.025 mg/m <sup>3</sup> (respirable fraction)	N/Av	0.05 mg/m <sup>3</sup> (respirable fraction) (final rule limit)	N/Av

**Engineering Controls** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

**Personal Protection Equipment**

**Eye / face protection** : Safety glasses or chemical goggles must be worn when using this product. Additionally, a face shield is recommended if splashing is possible.

**Skin protection** : Wear chemical resistant protective clothing and impervious gloves. Glove materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

**Body protection** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

**Respiratory protection** : If work process generates excessive quantities of dust, or exposures in excess of any PEL, wear an appropriate particulate respirator (dust mask). Mask should be rated at N-95 or higher.

**Site safety equipment** : An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations** : Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: solid	<b>Appearance</b>	: gray powder
<b>Odor</b>	: No odor	<b>Odor threshold</b>	: N/Av
<b>pH</b>	: 10 – 12	<b>Specific gravity</b>	: 2.7 – 3.1
<b>Boiling point</b>	: N/Av	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Melting/Freezing point</b>	: N/Av	<b>Solubility in water</b>	: < 55 g/L
<b>Vapor pressure (mm Hg @ 20°C / 68°F)</b>	: N/Av	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Vapor density (Air = 1)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: N/Av
<b>Volatile organic compounds (VOCs)</b>	: 0 g/L		
<b>Particle size</b>	: N/Av	<b>Flammability classification</b>	: Not flammable
<b>Flash point</b>	: N/Av	<b>Lower flammable limit (% by vol)</b>	: Not available
<b>Flash point method</b>	: N/Av	<b>Upper flammable limit (% by vol)</b>	: Not available
<b>Auto-ignition temperature</b>	: N/Av	<b>Decomposition temperature</b>	: Not available
<b>Viscosity</b>	: Not available	<b>Oxidizing properties</b>	: Not available

**Explosion data: Sensitivity to mechanical impact / static discharge**  
: Not expected to be sensitive to mechanical impact or static discharge.

## SECTION 10 – REACTIVITY AND STABILITY INFORMATION

<b>Reactivity</b>	: Contact with water may cause hydration and formation of caustic calcium hydroxide.
<b>Stability</b>	: Stable under the recommended storage and handling conditions prescribed.
<b>Hazardous reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: High temperatures.
<b>Materials to avoid and incompatibility</b>	: Oxidizing agents.
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Routes of exposure</b>	: <i>Inhalation</i> : YES <i>Skin Absorption</i> : NO <i>Skin and Eyes</i> : YES <i>Ingestion</i> : YES
<b>Symptoms of exposure</b>	: See Section 4.
<b>Calculated Acute Toxicity Estimates for the Product</b>	
<i>Inhalation</i>	: Not Available
<i>Oral</i>	: Not Available
<i>Dermal</i>	: Not Available
<b>Toxicological data</b>	: There are insufficient data for estimating the product's acute toxicity. Several components become caustic in the presence of water, and therefore should not be inhaled, ingested, or allowed to contact skin. See below for individual ingredient acute toxicity data.

Acute Toxicity Parameters for the Ingredients	CAS #	LC50, Inhalation mg/L, Rat, 4 hr	LD50, Oral mg/kg, rat	LD50, Dermal mg/kg, rabbit
Limestone	1317-65-3	N/Av	6,450	N/Av
Calcium aluminat cement	65997-16-2	N/Av	N/Av	N/Av
Calcium sulfate	7778-18-9	N/Av	> 3,000	NAv
Portland cement	65997-15-1	N/Av	N/Av	N/Av
Cellulose	9004-34-6	> 5.8	> 2,000	> 2,000
Vinyl acetate copolymer	24937-78-8	N/Av	> 1,000	N/Av
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av

<b>Skin corrosion or irritation</b>	: Causes skin corrosion when wet.
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- Serious eye damage / eye irritation** : Causes eye burns. May cause blindness.
- Respiratory or skin sensitization** : Portland cement may cause an allergic skin reaction, in hypersensitive individuals possibly due to trace amounts of chromium.
- Germ cell mutagenicity** : None known.
- Carcinogenic status** : This product contains Crystalline silica. Crystalline silica (respirable size) is classified as carcinogenic by inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : None known.
- Specific Target Organ Toxicity, Single Exposure** : May cause respiratory irritation.
- Specific Target Organ Toxicity, Repeated Exposure** : May cause lung damage upon repeated or prolonged exposure.
- Aspiration hazard** : None known.
- Additional information** : N/Av

**SECTION 12 – ECOLOGICAL INFORMATION**

- Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Ecotoxicological** : No data is available on the product itself.
- Ecotoxicity** : No data available.
- Biodegradability** : No data available.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- PBT and vPvB assessment** : No data available.
- Other adverse effects** : No data available.

**SECTION 13 – DISPOSAL CONSIDERATION**

- Handling for disposal** : Handle waste according to recommendations in Section 7.
- Methods of disposal** : You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 – TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None

<b>49 CFR/DOT Additional Information</b>	<b>None</b>
--	-------------

**IATA** : Not regulated for Air Transport

**IMDG** : Not regulated for Ocean Transport

**SECTION 15 – REGULATORY INFORMATION**

**Canadian Information:**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) Health Hazard

Chronic Health Hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right To Know Laws

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer. It contains Crystalline silica, quartz.

Other State Right to Know Laws:

Ingredient on State RTK Law?	CAS #	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	YES	No	YES	YES	YES
Portland cement	65997-15-1	No	YES	No	YES	YES	YES
Calcium sulfate	7778-18-9	No	YES	No	YES	YES	No
Cellulose	9004-34-6	No	YES	No	YES	YES	YES
Crystalline silica, quartz	14808-60-7	No	YES	YES	YES	YES	YES

**SECTION 16 – OTHER INFORMATION**

**HMIS Rating** : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe

*Health: \*3 Flammability 0 Physical Hazard 1 PPE: G*

Gloves, safety glasses, and dust respirator

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CFR: Code of Federal Regulations

DOT: Department of Transportation

DSL: Domestic Substances List

EPA: Environmental Protection Agency

GHS: Globally Harmonized System  
HPR: Hazardous Products Regulations  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
N/Av: Not Available  
N/Ap: Not Applicable  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

#### **Disclaimer of Liability**

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No warranty of any kind is given or implied. ARDEX Engineered Cements will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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Visit our Website: <http://www.ardexamericas.com>

**Revision date:** : 23-Mar-2017

**End of Document**



### SAFETY DATA SHEET

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Armstrong S-202 Static Dissipative Tile Adhesive**  
 Product Code : 70010773  
 Trade Name/Synonyms : S-202  
 Recommended Use : Flooring adhesive for static dissipative tiles.  
 Uses Advised Against : No information available.  
**Supplier's name and address:**  
 Armstrong World Industries, Inc.  
 2500 Columbia Ave.  
 Lancaster, PA, USA 17603

Information Telephone No. : (800) 233-3823  
 Website Address : <http://www.floorexpert.com>  
**24 Hr Emergency Telephone #** : **CHEM-TEL: 1-800255-3924 OR 1-813-248-0585 (call collect)**

## SECTION 2 – HAZARDS IDENTIFICATION

**GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)**  
 Carcinogenicity, Category 2  
 Specific target organ toxicity, single exposure; Narcotic effects Category 3  
 Aspiration hazard, Category 2.

### GHS Pictograms



### Signal Word

Warning.

### Hazard Statements

Suspected of causing cancer.  
 May cause drowsiness or dizziness.  
 May be harmful if swallowed and enters airways.

### Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. Avoid breathing dust or vapours. Use only outdoors or in a well-ventilated area. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

During normal usage of the product as recommended, airborne dusts will not be present. See Section 7 (Handling and Storage) for further details.

### Hazards Not Otherwise Classified

None.

### % with Unknown Acute Toxicity

None.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS



Ingredients	CAS #	% (by weight)
Carbon black	1333-86-4	3.00 – 7.00
Stoddard Solvent	8052-41-3	1.00 – 5.00
Vinyl acetate	108-05-4	0.10 – 0.50

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

## SECTION 4 – FIRST AID MEASURES

- General** : Call a Poison Center or doctor if you feel unwell.
- Inhalation** : If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If irritations or symptoms develop, seek medical attention/advice.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- Notes for Physician** : Treat symptomatically.

### Signs and symptoms of short-term (acute) exposure

- Inhalation* : Symptoms may include coughing and shortness of breath. Exposure to high vapour concentration can cause dizziness, nausea and central nervous system depression.
- Skin* : Symptoms may include redness and itching.
- Eyes* : Symptoms may include redness, itching, or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur. If large amounts are ingested, symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

### Effects of long-term (chronic) exposure

- : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath.

### Indication of need for immediate medical attention or special treatment

- : Difficulty breathing persists after removing the person to fresh air.
- : Any exposure to the eye which causes irritation.

## SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, alcohol foam or water spray.
- Unsuitable extinguishing media** : Water jet.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, nitrogen oxides (NO<sub>x</sub>) and other toxic vapors and gases which are common to thermal degradation of organic compounds.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.
- Environmental precautions** : Do not allow material to enter drains or contaminate ground water system.
- Fire hazards/conditions of flammability**



: Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Ammonia gas may be liberated at high temperatures.

**Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**

: Not flammable under normal conditions of handling.

**NFPA Rating**

: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

*Health: 1 Flammability 1 Instability 0 Special Hazards: None*

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

: Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.

**Protective equipment**

: Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Emergency Procedures**

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

US CERCLA Reportable quantity (RQ): Vinyl acetate: 5000 lbs.

**Methods and materials for containment and cleaning up**

: Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal (see Section 13). Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as required.

**Prohibited materials**

: Avoid strong oxidizing agents

**Environmental precautions**

: Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.

**Reference to other sections**

: See Section 14 for disposal information.

**SECTION 7 – HANDLING AND STORAGE**

**Safe handling procedures**

: Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing flooring (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly closed.

**Storage requirements**

: Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

**Incompatible materials**

: See Section 10.

**Special packaging materials**

: Always keep in containers made of the same materials as the supply container.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Permissible Exposure Limits**

: No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.



Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Carbon black	1333-86-4	3.0 mg/m <sup>3</sup> (inhalable)	N/Av	3.5 mg/m <sup>3</sup>	N/Av
Stoddard Solvent	8052-41-3	100 ppm	N/Av	500 ppm	N/Av
Vinyl acetate	108-05-4	10 ppm	15 ppm	10 ppm	20 ppm (final rule limits)

- Engineering Controls** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor generated from the handling of this product.
- Personal Protection Equipment**
- Eye / face protection** : Chemical goggles or safety glasses, as appropriate for the job.
  - Skin protection** : Wear gloves which are impervious to the material. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended. Consult with glove manufacturers regarding breakthrough time for this material.
  - Body protection** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.
  - Respiratory protection** : If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.
- Site safety equipment** : An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors/dust. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands thoroughly. Remove soiled clothing and wash it thoroughly before reuse. Clean all equipment and clothing at end of each work shift.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- |   |                      |   |                 |
|---|----------------------|---|-----------------|
| <b>Physical state</b>                       | : Paste              | <b>Appearance</b>                             | : Black paste   |
| <b>Odor</b>                                 | : Ammonia odor       | <b>Odor threshold</b>                         | : N/Av          |
| <b>pH</b>                                   | : 9.5                | <b>Specific gravity</b>                       | : 1.02          |
| <b>Boiling point</b>                        | : 212°F (100°C)      | <b>Coefficient of water/oil distribution</b>  | : N/Av          |
| <b>Melting/Freezing point</b>               | : N/Av               | <b>Solubility in water</b>                    | : Appreciable   |
| <b>Vapor pressure (mm Hg @ 20°C / 68°F)</b> | : N/Av               | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av          |
| <b>Vapor density (Air = 1)</b>              | : N/Av               | <b>Volatiles (% by weight)</b>                | : 40 %          |
| <b>Volatile organic compounds (VOCs)</b>    | : 50 g/L SCAQMD 1168 |   |                 |
| <b>Particle size</b>                        | : N/Av               | <b>Flammability classification</b>            | : Not flammable |
| <b>Flash point</b>                          | : >93.3°C (200°F)    | <b>Lower flammable limit (% by vol)</b>       | : Not available |
| <b>Flash point method</b>                   | : Setflash closed    | <b>Upper flammable limit (% by vol)</b>       | : Not available |
| <b>Auto-ignition temperature</b>            | : N/Av               | <b>Decomposition temperature</b>              | : Not available |
| <b>Viscosity</b>                            | : Not available      | <b>Oxidizing properties</b>                   | : Not available |
- Explosion data: Sensitivity to mechanical impact / static discharge**  
: Not expected to be sensitive to mechanical impact or static discharge.

## SECTION 10 – REACTIVITY AND STABILITY INFORMATION

- Reactivity** : Not reactive.
- Stability** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : High temperatures.
- Materials to avoid and incompatibility**



: Strong oxidizing agents; Acids; halogenated compounds.

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Routes of exposure** : *Inhalation*: YES      *Skin Absorption*: NO      *Skin and Eyes*: Yes      *Ingestion*: YES

**Symptoms of exposure** : See Section 4.

**Calculated Acute Toxicity Estimates for the Product**

*Inhalation* : > 30 mg/L  
*Oral* : > 3000 mg/kg  
*Dermal* : > 3000 mg/kg

**Toxicological data** : See below for individual ingredient acute toxicity data.

Ingredients	LC50 (4 hr) LD50		
	Inhalation, rat	Oral, rat	Dermal, rabbit
Carbon black	6750 mg/m <sup>3</sup>	> 15,400 mg/kg	> 3000 mg/Kg
Stoddard Solvent	> 5500 mg/m <sup>3</sup>	> 5000 mg/kg	> 3000 mg/kg
Vinyl acetate	3250 – 4100 ppm	2900 mg/kg	2300 mg/kg

**Skin corrosion or irritation** : May cause slight irritation to skin.

**Serious eye damage / eye irritation** : May cause slight irritation to eyes.

**Respiratory or skin sensitization** : Not expected to cause skin or respiratory sensitization reactions.

**Germ cell mutagenicity** : Contains Carbon black. Test results for Carbon black are:

Ames test (*S. typhimurium*) – Result: negative  
Hamster (ovary) – Result: negative  
DNA repair (rat, female) – Result: negative

**Carcinogenic status** : This product contains Carbon black and Vinyl acetate. Carbon black and Vinyl acetate are each classified as possibly carcinogenic to humans by IARC (Group 2B) based on rat inhalation studies. ACGIH has classified Carbon black as not classifiable as a human carcinogen (Group A4). ACGIH has classified Vinyl acetate as a proven animal carcinogen (Group A3). NTP and OSHA have not classified Carbon black or Vinyl acetate in terms of carcinogenicity. During normal usage of the product as recommended, airborne dusts will not be present. See Section 7 for more information. No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive toxicity** : None known.

**Specific Target Organ Toxicity, Single Exposure**

: Overexposure may cause Central Nervous System effects.

**Specific Target Organ Toxicity, Repeated Exposure**

: None known.

**Aspiration hazard**

: None known.

**Additional information**

: N/Av

**SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Ecotoxicity** : No data available.  
**Biodegradability** : No data available.  
**Bioaccumulative potential** : No data available.  
**Mobility in soil** : No data available.  
**PBT and vPvB assessment** : No data available.  
**Other adverse effects** : No data available.

**SECTION 13 – DISPOSAL CONSIDERATION**





- Handling for disposal** : Handle waste according to recommendations in Section 7.
- Methods of disposal** : You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 – TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
<b>TDG</b>	<b>None</b>	This product is not regulated according to Canadian TDG regulations.	<b>None</b>	<b>None</b>	<b>None</b>
<b>TDG Additional Information</b>	<b>None</b>				
<b>49 CFR/DOT</b>	<b>None</b>	This product is not regulated according to US DOT regulations.	<b>None</b>	<b>None</b>	<b>None</b>
<b>49 CFR/DOT Additional Information</b>	<b>None</b>				

**SECTION 15 – REGULATORY INFORMATION**

**Canadian Information:**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Vinyl acetate: 5000 lbs.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: This product contains an Extremely Hazardous Substance under SARA Section 302. This product contains: vinyl acetate.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their *de minimus* concentrations. This product contains: vinyl acetate.

**U.S. State Right To Know Laws**

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer and/or reproductive/developmental effects.



Other State Right to Know Laws: Carbon black [CAS# 1333-86-4] (CA, MA, MN, NJ, PA, RI); Stoddard solvent [CAS# 8052-41-3] (CA, MA, MN, NJ, PA, RI), Vinyl acetate [CAS# 108-05-4] (CA, MA, MN, NJ, NY, PA, RI).

**SECTION 16 – OTHER INFORMATION**

HMIS Rating : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
Health: \*2 Flammability 1 Physical Hazard: 0 PPE: Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
DSL: Domestic Substances List  
EPA: Environmental Protection Agency  
GHS: Globally Harmonized System  
HPR: Hazardous Products Regulations  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
N/Av: Not Available  
N/Ap: Not Applicable  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**Disclaimer of Liability**

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. Armstrong World Industries, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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**End of Document**

# MATERIAL SAFETY DATA SHEET



## S-240

Prepared 6/12

Armstrong World Industries, Inc.  
P. O. Box 3001  
Lancaster, PA 17604  
1-877-276-7876, Option 2,3,3

### I. PRODUCT IDENTIFICATION

Name: Armstrong S-240 Epoxy Adhesive (Part A and Part B)  
Description: Epoxy-type resin adhesive

### II. DEPARTMENT OF TRANSPORTATION INFORMATION

SHIPPING NAME: Not classified. HAZARD CLASS: N/A. ID#: N/A.  
EMERGENCY ONLY CONTACT: CHEM-TEL-1-800-255-3924.

### III. HMIS (0=minimal hazard; 4 = severe hazard)

Health = 2 Flammability = 1 Reactivity = 0

### IV. PRODUCT CONTENT

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are on TSCA inventory. This product does NOT contain asbestos.

### V. HAZARDOUS INGREDIENTS

(Chemical Identity; Common Name)	C.A.S. No.	%	OSHA PEL	ACGIH TLV
Part A: Epichlorohydrin, Bisphenol A Resin	25068-38-6	<50	N/A	N/A
Part B: Polyamide Resin	68410-23-1	<70	N/A	N/A

### VI. PHYSICAL DATA

APPEARANCE: Part A: Off-white thin paste, mild epoxy resin odor; Part B: Light amber paste with ammonia odor. BOILING POINT (degrees F): N/A. VAPOR PRESSURE (mm Hg @ 20°C): N/A. VAPOR DENSITY (air = 1): N/A. % VOLATILE BY WEIGHT (30 min. @ 275°F): N/K. EVAPORATION RATE (butyl acetate = 1): N/A. WT/GAL (water =8.3): Part A: 12.5; Part B: 9.4. SOLUBILITY IN WATER: None. SPECIFIC GRAVITY(H2O =1): N/A. VOC: Part A and PART B: <10 g/l calculated at 70°F/21°C, SCAQMD. pH: N/K.

### VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): Part A: >400°F, Part B: >340° F (T.O.C.) FLAMMABLE RANGE: LEL: N/A; UEL: N/A. EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or water spray. SPECIAL FIRE FIGHTING PROCEDURES: Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers in a fire may rupture due to pressure build-up; use water to cool containers to prevent this.

### VIII. HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Inhalation, and direct dermal exposure. TARGET ORGANS: Upper respiratory tract, skin, eyes. EFFECTS OF OVEREXPOSURE: SKIN AND EYES: Part A - Prolonged or repeated skin exposure can cause mild skin irritation. Contact with eyes may cause irritation. Part B - Repeated or prolonged exposure to the skin can cause irritation and may cause sensitization and allergic reaction. Contact with eyes can cause irritation, redness and tearing. INHALATION: Part B - May cause irritation of respiratory tract. CARCINOGENICITY: NTP: No; IARC Monographs: No; OSHA Regulated: No MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any condition generally aggravated by a pulmonary irritant. Existing skin conditions. FIRST AID PROCEDURES: SKIN AND EYES: Flush any eye contact with plenty of water. Additionally with skin contact, wash with soap and water. Refer to physician if irritation or symptoms persist. INHALATION: Remove to fresh air. Seek medical attention if symptoms persist. INGESTION: Do not induce vomiting. Call a Poison Control Center or physician for guidance.

### IX. REACTIVITY DATA

STABILITY: Stable. INCOMPATIBILITY: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation of organic compounds. HAZARDOUS POLYMERIZATION: Mixing of the two components Part A with Part B generates heat.

### X. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area of spill or release. Contain spill, preventing it from entering sewer lines or waterways. Use absorbent to assist with the pick-up of material. Scrape up product and place into container. Residual of product, while still wet, can be cleaned up with warm soapy water. Clean-up personnel must avoid skin and eye contact while scrapping up material. WASTE DISPOSAL METHOD: Dispose of container and any unused contents in accordance with Federal, State, and Local Waste Disposal Regulations. Do not flush unused contents or residue down drains. Do not reuse container.

### XI. SPECIAL HANDLING AND USE INFORMATION

VENTILATION: Normal ambient ventilation should be sufficient. RESPIRATORY PROTECTION: With adequate ventilation, respiratory equipment should not be needed. If adequate ventilation is not afforded, wear respiratory equipment approved for organic vapors. SKIN AND EYE PROTECTION: During normal end-product use, cotton or loop-pile gloves and spectacle-type safety glasses are recommended to prevent contact with this product.

### XII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep out of reach of children. Keep containers tightly closed. Store in a cool, dry place. Recommended storage temperature is below 90° F. and above 35°F. OTHER PRECAUTIONS: Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. WORK SITE ENVIRONMENT: Initially there may be a potential adverse impact on indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate person that: • It will be necessary to establish and maintain adequate ventilation of the work area, without causing the entry of contaminants to other parts of building; and • Persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

N/A - not applicable or not available  
N/K - none known or not known

# Material Safety Data Sheet

## Armstrong S-288 Residential Flooring Adhesive

### \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Material Name:** Acrylic Latex, Resin Blend

**Product Use:** Flooring Adhesive

**Manufactured For:** Armstrong World Industries, 2500 Columbia Ave. Lancaster PA 17603, 877-276-7876

**In the event of a chemical emergency involving a spill, leak, fire, explosion, exposure or accident, contact the following number:** emergency 24 hour number: CHEM-TEL: 1-800-255-3924 or 1-813-248-0585 (call collect)

### \*\*\* Section 2 - Hazards Identification \*\*\*

**Emergency Overview:** This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Irritating to eyes.

**Hazard Statements:** Inhalation may cause respiratory tract irritation. Contact with eyes and skin may result in irritation, Ingestion may result in gastric disturbances.

**Potential Health Effects--Eyes:** Vapor may cause mild irritation

**Potential Health Effects--Skin:** May cause slight skin irritation

**Potential Health Effects--Ingestion:** Not a likely route of entry under proper handling conditions. May cause vomiting. Symptoms may be same as inhalation.

**Potential Health Effects--Inhalation:** May cause slight irritation to the upper respiratory tract.

**Medical Conditions Aggravated by Exposure:** None known.

**Potential Environmental Effects:** None identified.

**HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0 Pers. Protection:** Safety glasses, gloves.

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
Proprietary	Acrylic Copolymer	40-100
Proprietary	Resin-Rosin Ester Mixture	10-15

# Material Safety Data Sheet

## Armstrong S-288 Residential Flooring Adhesive

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### \*\*\* Section 4 - First Aid Measures \*\*\*

**First Aid–Eyes:** Wash eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

**First Aid–Skin:** Remove from skin and wash with soap and water. If irritation persists, seek medical attention.

**First Aid–Ingestion:** If swallowed, call physician. Do not induce vomiting.

**First Aid–Inhalation:** Move to fresh air. Administer oxygen if necessary. Seek medical attention.

**First Aid–Notes to Physician:** Provide general supportive measures and treat symptomatically.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**General Fire Hazards:** This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a slight fire hazard.

**Hazardous Combustion Products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Extinguishing Media:** Water spray, carbon dioxide, foam, dry chemical.

**Fire Fighting Equipment/Instructions:** Use self-contained breathing apparatus.

**NFPA Ratings:** Health–1, Fire–0, Reactivity–0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

**Personal Precautions:** Wear appropriate protective equipment and clothing during clean-up.

**Containment Procedures:** Keep out of sewer systems to prevent blockage due to polymer deposits. Use absorbent material to collect and/or scrape up excess and place into closed DOT approved containers for disposal.

**Environmental Precautions:** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**Clean-Up Procedures:** Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up.

**Evacuation Procedures:** None identified.

**Special Procedures:** Regulations vary. Consult local authorities before disposal.

# Material Safety Data Sheet

## Armstrong S-288 Residential Flooring Adhesive

### \*\*\* Section 7 - Handling and Storage \*\*\*

**Handling Procedures:** Do not induce vomiting if ingested. Use this product with adequate ventilation. Keep out of the reach of children.

**Storage Procedures:** Protect from extreme temperature conditions.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

**A: Component Exposure Limits:** ACGIH, OSHA, NIOSH or the provinces of Canada have not developed exposure limits for any of this product's components.

**Ventilation and Engineering Controls:** Use local exhaust. Do not use closed air-circulating system. Open windows and doors if necessary.

#### PERSONAL PROTECTIVE EQUIPMENT

**Personal Protective Equipment–Eyes/Face:** Wear safety glasses with side shields.

**Personal Protective Equipment–Skin:** The use of nitrile-latex gloves is recommended.

**Personal Protective Equipment–Respiratory:** NIOSH respirator if needed.

**Personal Protective Equipment–General:** Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Off white	<b>Odor:</b>	Mild
<b>Physical State:</b>	Viscous Aqueous Paste	<b>pH:</b>	8.0 – 9.5
<b>Vapor Pressure:</b>	Low	<b>Vapor Density:</b>	Same as water
<b>Boiling Point:</b>	Same as water	<b>Melting Point:</b>	N/A
<b>Solubility (H2O):</b>	Not established	<b>Specific Gravity:</b>	1.0 – 1.10
<b>Evaporation Rate:</b>	Same as water	<b>VOC:</b>	negligible
<b>Octanol/H2O Coeff.:</b>	Not established	<b>Flash Point:</b>	NA
<b>Flash Point Method:</b>	Pensky-Martin C.C.	<b>Upper Flammability Limit (UFL):</b>	NA
<b>Lower Flammability Limit (LFL):</b>	NA	<b>Burning Rate:</b>	NA
<b>Auto Ignition:</b>	NA		

**Physical Properties–Additional Information:** The data provided in this section is to be used for product safety handling purposes only.

# Material Safety Data Sheet

## Armstrong S-288 Residential Flooring Adhesive

### \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

**Chemical Stability:** Stable.

**Chemical Stability–Conditions to Avoid:** Keep away from extreme temperature conditions.

**Incompatibility:** Oxidizing materials.

**Hazardous Decomposition:** Oxides of carbon, water, and organic compounds of unknown structure.

**Hazardous Polymerization:** Will not occur.

### \* \* \* Section 11 - Toxicological Information \* \* \*

#### Acute Dose Effects

**A: General Product Information:** No information available for the product.

**B: Component Analysis - LD50/LC50:** No information available for the product.

#### Carcinogenicity

**A: General Product Information:** No information available for the product.

**B: Component Carcinogenicity:** None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**Sensitization:** No information available for the product.

### \* \* \* Section 12 - Ecological Information \* \* \*

#### Ecotoxicity

**A: General Product Information:** No information available for the product.

**B: Component Analysis–Ecotoxicity–Aquatic Toxicity:** No ecotoxicity data are available for this product's components.

### \* \* \* Section 13 - Disposal Considerations \* \* \*

#### US EPA Waste Number & Descriptions

**A: General Product Information:** No additional information available.

**B: Component Waste Numbers:** No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions:** Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

# Material Safety Data Sheet

## Armstrong S-288 Residential Flooring Adhesive

### \*\*\* Section 14 - Transportation Information \*\*\*

**International Transportation Regulations:** Not regulated as dangerous goods.

### \*\*\* Section 15 - Regulatory Information \*\*\*

#### US Federal Regulations

**A: General Product Information:** All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

**B: Component Analysis:** None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

#### State Regulations

**A: General Product Information:** Other state regulations may apply. Check individual state requirements.

**B: Component Analysis–State:** None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

**California Proposition 65:** This product contains a chemical(s) known to the State of California to cause cancer and/or reproductive harm.

#### Canadian WHMIS Information

**A: General Product Information:** Not regulated

**B: Component Analysis - WHMIS IDL:** No components are listed in the WHMIS IDL.

**WHMIS Classification:** Not Regulated

#### Additional Regulatory Information

**A: General Product Information:** Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

#### B: Component Analysis–Inventory

Component	CAS #	TSCA	CAN
Acrylic Copolymer	Proprietary	Yes	DSL
Resin-Rosin Ester Mixture	Proprietary	Yes	DSL



# Material Safety Data Sheet

## Armstrong S-288 Residential Flooring Adhesive

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<b>* * * Section 16 - Other Information * * *</b>
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**Other Information:** Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

**Key/Legend:** NA = Not available or Not Applicable; NFPA = National Fire Protection Association; HMIS = Hazardous Material Information System; CFR = Code of Federal Regulations; EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NJTSR = New Jersey Trade Secret Registry.

**GHS product identifier** : Armstrong S-525 Biobased Tile Adhesive  
**Product type** : Liquid  
**CAS #** : mixture  
**Address** : Armstrong World Industries Inc  
2500 Columbia Avenue  
Lancaster, PA 17603  
**Contact person** : [www.floorexpert.com](http://www.floorexpert.com)  
**Telephone** : 877-276-7876  
**In case of emergency** : Chem-Tel 800-255-3924 (24 Hours)  
**Product code** : S-525  
**Date of Revision** : 5/26/2015  
**Chemical Family** : Adhesive

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

## Section 2. Hazards Identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN CORROSION/IRRITATION – Category 2  
SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2B

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 24.7%

**GHS label elements****Hazard pictograms** :**Signal word** : Danger**Hazard statements** : Causes skin and eye irritation.**Precautionary statements****General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.**Prevention** : Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.

## Section 2. Hazards identification

**Response** : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

### Hazardous ingredients

#### United States

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 - 10

#### Canada

Name	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 - 10

#### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Not available.	5 - 10	2500 mg/m <sup>3</sup>	2	1	0	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : No specific data.
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 0°C (32°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

#### Occupational exposure limits

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>NIOSH REL (United States, 10/2013).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist <b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
Distillates (petroleum), hydrotreated heavy naphthenic	US ACGIH 4/2014	-	5	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	5	-	-	10	-	-	-	-	[b]
	ON 1/2013	-	5	-	-	10	-	-	-	-	[c]
	QC 1/2014	-	5	-	-	10	-	-	-	-	[c]

Form: [a]Inhalable fraction [b]Mist [c]mist

### Mexico

#### Occupational exposure limits

Ingredient	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 5 mg/m <sup>3</sup> 8 hours. Form: mist LMPE-CT: 10 mg/m <sup>3</sup> 15 minutes. Form: mist

Consult local authorities for acceptable exposure limits.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid. [Paste.]
- Color** : Beige.
- Odor** : Characteristic. [Slight]
- Odor threshold** : Not available.
- pH** : 9.6
- Melting point** : Not available.
- Boiling point** : 100°C (212°F)
- Flash point** : Closed cup: >93.333°C (>200°F) [Setaflash.]
- VOC (less water, less exempt solvents)** : 16.2 g/l
- Relative density** : 1.11

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

- Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-

## Section 11. Toxicological information

### Conclusion/Summary

- Skin** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Eyes** : This product may irritate eyes upon contact.
- Respiratory** : Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

## Section 12. Ecological information

### Toxicity

**Conclusion/Summary** : Not available.

### Persistence and degradability

Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains



**Section 13. Disposal considerations**

and sewers.

**Section 14. Transport information**

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>Mexico Classification</b>	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according  
to Annex II of MARPOL  
73/78 and the IBC Code** : Not available.

**Section 15. Regulatory information**

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Air Act Section 112  
(b) Hazardous Air  
Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602  
Class I Substances** : Not listed

**Clean Air Act Section 602  
Class II Substances** : Not listed

**SARA 302/304****Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Immediate (acute) health hazard

**Composition/information on ingredients**

**Section 15. Regulatory information**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Distillates (petroleum), hydrotreated heavy naphthenic	5 - 10	No.	No.	No.	Yes.	No.

**State regulations**

- Massachusetts** : None of the components are listed.  
**New York** : None of the components are listed.  
**New Jersey** : The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED)  
**Pennsylvania** : None of the components are listed.  
**California Prop. 65**

Not available.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Not applicable.				

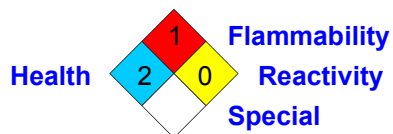
**Canada****Canadian lists**

- Canadian NPRI** : None of the components are listed.  
**CEPA Toxic substances** : None of the components are listed.  
**Canada inventory** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Mexico**

**Classification** :

**International regulations**

- International lists** :
- Australia inventory (AICS)**: All components are listed or exempted.
  - China inventory (IECSC)**: All components are listed or exempted.
  - Japan inventory**: Not determined.
  - Korea inventory**: All components are listed or exempted.
  - Malaysia Inventory (EHS Register)**: Not determined.
  - New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted.
  - Philippines inventory (PICCS)**: Not determined.
  - Taiwan inventory (CSNN)**: All components are listed or exempted.

**Europe** : Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

## Section 15. Regulatory information

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	1
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

**Date of printing** : 5/26/2015.  
**Date of issue/Date of revision** : 5/26/2015.  
**Date of previous issue** : No previous validation.  
**Version** : 4

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 UN = United Nations

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Armstrong S-543 Premium Plus Commercial Sheet Flooring Adhesive**

Product Code : 70012273

Trade Name/Synonyms : S-543

Recommended Use : Adhesive for installing Vinyl Sheet Flooring

Uses Advised Against : No information available.

**Supplier's name and address:**  
Armstrong World Industries, Inc.  
2500 Columbia Ave.  
Lancaster, PA, USA 17603

Information Telephone No. : (800) 233-3823

Website Address : <http://www.floorexpert.com>

24 Hr Emergency Telephone # : CHEM-TEL: 1-800255-3924 OR 1-813-248-0585 (call collect)

### SECTION 2 – HAZARDS IDENTIFICATION

**GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)**

Not classified as hazardous

**GHS Pictograms**

None.

**Signal Word**

None.

**Hazard Statements**

None.

**Safe Handling Instructions:**

Avoid eye and skin contact. It is recommended to use safety glasses and gloves during handling. During installation process, adequate ventilation of the work area should be maintained. Although the adhesive is low VOC, persons who are sensitive to odors or chemicals should avoid the work area during installation. Keep container closed.

**Hazards Not Otherwise Classified**

None.

**% With Unknown Acute Toxicity :**

5% by weight of this product consists of ingredients with unknown acute toxicity.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
No hazardous ingredients	N/Ap	100

### SECTION 4 – FIRST AID MEASURES

**General** : Call a doctor if you feel unwell.



- Inhalation** : If a worker develops breathing problems while working with this material, remove the worker to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash with plenty of soap and water. If irritations or symptoms develop, seek medical attention/advice.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a doctor/physician if you feel unwell.
- Notes for Physician** : Treat symptomatically.

**Signs and symptoms of short-term (acute) exposure**

- Inhalation* : None known.
- Skin* : Symptoms may include mild redness or itching.
- Eyes* : Symptoms may include mild redness, itching, or pain.
- Ingestion* : None known.

**Effects of long-term (chronic) exposure**

- : None known.

**Indication of need for immediate medical attention or special treatment**

- : Difficulty breathing persists after removing the person to fresh air.
- : Any exposure to the eye which causes irritation.

**SECTION 5 – FIRE FIGHTING MEASURES**

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, alcohol foam or water spray.
- Unsuitable extinguishing media** : Water jet may spread the burning material.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, as well as other toxic vapors and gases which are common to thermal degradation of organic compounds.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.
- Environmental precautions** : Do not allow material to enter drains or contaminate ground water system.
- Fire hazards/conditions of flammability** : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
- Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)** : Not flammable.
- NFPA Rating** : 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
*Health: 1 Flammability 1 Instability 0 Special Hazards: None*

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.
- Protective equipment** : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
- Emergency Procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
US CERCLA Reportable quantity (RQ): None reported.



**Methods and materials for containment and cleaning up**

- : Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal (see Section 13). Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as required.

**Prohibited materials**

- : None known.

**Environmental precautions**

- : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.

**Reference to other sections**

- : See Section 14 for disposal information.

**SECTION 7 – HANDLING AND STORAGE**

**Safe handling procedures**

- : Wear suitable protective equipment during handling. (See Section 8.) Observe good hygiene standards. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with eyes, skin, or clothing. When removing this product from existing flooring (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. Keep container tightly closed.

**Storage requirements**

- : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

**Incompatible materials**

- : See Section 10.

**Special packaging materials**

- : Always keep in containers made of the same materials as the supply container.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Permissible Exposure Limits**

- : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
No hazardous ingredients	N/Ap	N/Ap	N/Ap	N/Ap	N/Ap

**Engineering Controls**

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor generated from the handling of this product.

**Personal Protection Equipment**

**Eye / face protection**

- : Chemical goggles or safety glasses, as appropriate for the job.

**Skin protection**

- : Wear gloves which are impervious to the material. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

**Body protection**

- : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

**Respiratory protection**

- : Under normal conditions of use with adequate ventilation, respiratory protection should not be necessary. If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.

**Site safety equipment**

- : An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**

- : Avoid contact with eyes, skin and clothing. Avoid breathing vapors/dust. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands thoroughly. Remove soiled clothing and wash it thoroughly before reuse. Clean all equipment and clothing at end of each work shift.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**



<b>Physical state</b>	: Paste	<b>Appearance</b>	: Off-white paste
<b>Odor</b>	: Mild	<b>Odor threshold</b>	: N/Av
<b>pH</b>	: 8.0 – 9.0	<b>Specific gravity</b>	: 1.05
<b>Boiling point</b>	: 212°F (100°C)	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Melting/Freezing point</b>	: N/Av	<b>Solubility in water</b>	: Dispersible
<b>Vapor pressure (mm Hg @ 20°C / 68°F)</b>	: N/Av	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: N/Av
<b>Vapor density (Air = 1)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: Approximately 34 – 35%
<b>Volatile organic compounds (VOCs)</b>	: 0 g/L SCAQMD 1168		
<b>Particle size</b>	: N/Av	<b>Flammability classification</b>	: Not flammable
<b>Flash point</b>	: >146°C (>295°F)	<b>Lower flammable limit (% by vol)</b>	: Not available
<b>Flash point method</b>	: Setaflash closed	<b>Upper flammable limit (% by vol)</b>	: Not available
<b>Auto-ignition temperature</b>	: N/Av	<b>Decomposition temperature</b>	: Not available
<b>Viscosity</b>	: 90,000 cSt	<b>Oxidizing properties</b>	: Not available

**Explosion data: Sensitivity to mechanical impact / static discharge**  
: Not expected to be sensitive to mechanical impact or static discharge.

**SECTION 10 – REACTIVITY AND STABILITY INFORMATION**

<b>Reactivity</b>	: Not reactive.
<b>Stability</b>	: Stable under the recommended storage and handling conditions prescribed.
<b>Hazardous reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: Extreme heat.
<b>Materials to avoid and incompatibility</b>	: Strong oxidizing agents.
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Routes of exposure** : *Inhalation*: YES    *Skin Absorption*: NO    *Skin and Eyes*: Yes    *Ingestion*: YES

**Symptoms of exposure** : See Section 4.

**Calculated Acute Toxicity Estimates for the Product**

<i>Inhalation</i>	: > 50 mg/L
<i>Oral</i>	: > 5000 mg/kg
<i>Dermal</i>	: > 5000 mg/kg

**Toxicological data** : See below for individual ingredient acute toxicity data.

Ingredients	LD50		
	LC50 (4 hr) Inhalation, rat	Oral, rat	Dermal, rabbit
No hazardous ingredients.	N/Av	N/Av	N/Av

<b>Skin corrosion or irritation</b>	: May cause mild irritation to skin.
<b>Serious eye damage / eye irritation</b>	: May cause mild, temporary irritation to eyes.
<b>Respiratory or skin sensitization</b>	: None known.
<b>Germ cell mutagenicity</b>	: None known.
<b>Carcinogenic status</b>	: No components are classified as carcinogenic by IARC, ACGIH, NTP, and OSHA.
<b>Reproductive toxicity</b>	: None known.
<b>Specific Target Organ Toxicity, Single Exposure</b>	: None known.
<b>Specific Target Organ Toxicity, Repeated Exposure</b>	: None known.





: None known.  
**Aspiration hazard** : None known.  
**Additional information** : N/Av

**SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Ecotoxicity** : No data available.  
**Biodegradability** : No data available.  
**Bioaccumulative potential** : No data available.  
**Mobility in soil** : No data available.  
**PBT and vPvB assessment** : No data available.  
**Other adverse effects** : No data available.

**SECTION 13 – DISPOSAL CONSIDERATION**

**Handling for disposal** : Handle waste according to recommendations in Section 7.  
**Methods of disposal** : You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.  
**Packaging** : Handle contaminated packaging in the same manner as the product.  
**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14 – TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None				

**SECTION 15 – REGULATORY INFORMATION**

**Canadian Information:**  
This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.  
Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

**US Federal Information:**



TSCA: All ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Not Hazardous.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

**U.S. State Right To Know Laws**

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other State Right to Know Laws: Not applicable.

**SECTION 16 – OTHER INFORMATION**

HMIS Rating : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
*Health: 1 Flammability 1 Physical Hazard: 0 PPE: Gloves, safety glasses*

- Legend :
- ACGIH: American Conference of Governmental Industrial Hygienists
  - CAS: Chemical Abstract Services
  - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
  - CFR: Code of Federal Regulations
  - DOT: Department of Transportation
  - DSL: Domestic Substances List
  - EPA: Environmental Protection Agency
  - GHS: Globally Harmonized System
  - HPR: Hazardous Products Regulations
  - IARC: International Agency for Research on Cancer
  - Inh: Inhalation
  - N/Av: Not Available
  - N/Ap: Not Applicable
  - NIOSH: National Institute of Occupational Safety and Health
  - NTP: National Toxicology Program
  - OSHA: Occupational Safety and Health Administration
  - PEL: Permissible exposure limit
  - RCRA: Resource Conservation and Recovery Act
  - SARA: Superfund Amendments and Reauthorization Act
  - STEL: Short Term Exposure Limit
  - TDG: Canadian Transportation of Dangerous Goods Act & Regulations
  - TLV: Threshold Limit Values
  - TSCA: Toxic Substance Control Act
  - TWA: Time Weighted Average
  - WHMIS: Workplace Hazardous Materials Identification System

**Disclaimer of Liability**

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. Armstrong World Industries, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

**Prepared By:**  
Armstrong World Industries, Inc.  
2500 Columbia Ave.



Armstrong S-543 Premium Plus Commercial Sheet Flooring Adhesive  
04-Mar-2015

Armstrong World Industries  
2500 Columbia Ave.  
Lancaster, PA USA 17603  
Telephone: (800) 233-3823  
Page 7 of 7

Lancaster, PA, USA 17603

(800) 233-3823  
Visit our Website: <http://www.floorexpert.com>

**Revision date:** : 04-Mar-2015

**End of Document**

# Safety Data Sheet

## Bentley Healthbond 1000 Premium Multi Purpose Adhesive

Revision date: October 5, 2015

Version: 1

### 1. Identification

**Bentley Healthbond 1000** Premium Multi Purpose Adhesive

Recommended use of the chemical and restriction on use: interior installation of flooring material over approved subfloors – all non- vinyl backed carpet in direct glue down and double stick installations.

#### Details of the supplier of the safety data sheet

Manufactured for: Bentley Mills  
14641 E. Don Julian Rd.  
City of Industry, CA 91746

Company: W.F.Taylor LLC  
11545 Pacific Avenue  
Fontana, CA 92337, USA

Telephone number: (951) 360-6677  
**Emergency Telephone Number:** 1-800-535-5053

#### Other Means of Identification

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Chemical Family: Synthetic latex and Hydrocarbon resin blend

### 2. Hazards identification

According to regulation 2012 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

**Classification of the Product:**

No need for classification according to GHS criteria for this product.

**Label Elements**

This product does not require a hazard warning label in accordance with GHS criteria.

**Hazards not otherwise classified**

None known if used according to instructions. Irritation may occur when in contact with eyes and skin.

**Emergency Overview**

Caution:

May cause skin irritation if not removed after skin contact.

Use with Use with local exhaust ventilation.

Use protective equipment for eyes, skin protection.

---

**3. Composition / Information on Ingredients**

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

<u>CAS number</u>	<u>Content</u>	<u>Chemical Name</u>
Trade Secret	1-10	Tackifier Resin
Trade Secret	1-10	SBR latex
1332-58-7	15-25	Kaolin Clay
7732-18-5	25-40	Water

---

#### 4. First Aid Measures

##### Description of First Aid measures

###### General Advice:

Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

###### If inhaled:

Remove individual to fresh air if needed.

###### If on Skin:

Wash with mild soap and water.

###### If in eyes:

Open eyelids and flush with running water for at least 15 minutes.

###### If Swallowed:

Do not induce vomiting. Seek medical help immediately.

##### Most Important symptoms and effects, both acute and delayed

Not expected due to non- classification of the product.

##### Indication of any immediate medical attention and special treatment needed

###### Note to physician

Treatment: Symptomatic treatment

---

#### 5. Fire-Fighting Measures

##### Extinguishing Media

None needed in wet state. Product is water based.

Dry material will burn. Use Water spray, foam, dry powder when needed.

##### Special hazards arising from the substance or mixture

Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

Advice for fire-fighters

Wear self-contained breathing apparatus and turn out gear.

**Further Information:**

Dispose debris and contaminated clothing in accordance with regulations.

---

**6. Accidental release measures**

Further accidental release measures: Slip hazard when spilled.

**Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid contact with skin and eyes.

**Environmental Precautions**

Do not release spilled material into natural waters.

**Methods and material for containment and cleaning up**

Remove material using absorbents. Scrape off excess and place in closed DOT approved containers for disposal.

**7. Handling and Storage**

**Precautions for Safe Handling**

Do not puncture. Keep out of the reach of children.

**Conditions for safe storage, including any incompatibilities**

Keep from freezing. Avoid extreme temperatures.

**8. Exposure Control/ Personal Protection**

**Advice on system design:** Maintain proper ventilation.

---

**Personal protective equipment:**

**Respiratory protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin protection:** chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye protection:** safety glasses, goggles, or face shield

**General safety and hygiene safety measures:**

Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

---

## 9. Physical and Chemical Properties

**Form:** medium viscosity liquid

**Odor:** mild

**Odor threshold:** no data

**Color:** off white to cream

**pH value:** 9.8 - 10

**Melting point:** not applicable

**Boiling point:** similar to water

**Flash point:** not applicable

**Flammability:** none flammable

**Lower Explosion Limit:** low

**Upper Explosion Limit:** low

**Vapor Pressure:** low

**Density:** 9.3 – 9.9 lbs. per gallon **Relative**

**density:** 1.11 – 1.19 grams / cm<sup>3</sup>

**Vapor density:** low

**Partition Coefficient n-octanol /water (log Pow):** no data **Self- ignition temperature:** not applicable

**Viscosity, dynamic:** 100,000 – 175,000 cps

**Solubility in water:** limited

**Miscibility in water:** miscible

**Evaporation rate:** same as water

**Other information:**

**VOC, g/l less water, less exempt solvents:** 15

---

## 10. Stability and Reactivity

**Reactivity:** Stable

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None, product is stable.

**Conditions to avoid:** Extreme temperatures.

**Incompatible materials:** None known

**Hazardous decomposition products:** None known.



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**11. Toxicological Information**

No data available

**Primary routes of exposure:** respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

**Acute Toxicity / Effects**

Acute toxicity: May cause irritation upon contact.

**Chronic Toxicity Effects**

Repeated dose toxicity: no data available  
Genetic toxicity: no data available  
Carcinogenicity: not carcinogenic  
Reproductive toxicity: no data available  
Teratogenicity: no data available  
Experiences in humans

Other Information

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**12. Ecological Information**

No data available

---

**13. Disposal Considerations**

Abide by all State, federal and local regulations

---

**14. Transport Information**

Proper Shipping name: Not applicable  
Proper Hazard Class: Not hazardous  
Hazard Code: None hazardous  
Bill of Lading Description: **Adhesives, NOI**

---

**15. Regulatory Information:**

## **Federal Regulations**

### **Registration status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

### **State regulations:**

#### **CA Prop 65:**

**Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.**

#### **NFPA Hazard Codes:**

**Health: 1      Fire: 0      Reactivity: 0      Special:**

#### **HMIS rating:**

**Health: 1      Flammability: 0      Physical hazard: 0**

---

## **16. Other Information**

**SDS prepared by:** WFTaylor LLC SDS group

**SDS prepared on:** October 5, 2015

W.F. Taylor LLC believes the data set forth herein are accurate as of the date hereof. Taylor makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product name</b>	<b>LVT-LOCK</b>
<b>MSDS name</b>	LVT-Lock
<b>CAS #</b>	Mixture
<b>Product use</b>	Carpet and Vinyl Adhesive
<b>Generic description</b>	Aqueous Polymer Based Dispersion
<b>Manufacturer</b>	Bostik, Inc. 11320 Watertown Plank Rd Wauwatosa, WI 53226 USA
<b>24 hour emergency assistance</b>	Telephone: 1-800-227-0332 (Outside U.S.) 1-703-527-3887
<b>General assistance</b>	Telephone: 1-800-843-0844
<b>MSDS assistance</b>	Telephone: 1-800-843-0844

## 2. Hazards Identification

<b>Emergency overview</b>	Contact with this material can cause irritation to the skin, eyes and mucous membranes. This product contains a component which may be a potential skin sensitizer.
<b>Potential health effects</b>	
<b>Eyes</b>	This product may cause irritation to the eyes.
<b>Skin</b>	Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.
<b>Inhalation</b>	Inhalation: Inhalation of vapors may cause respiratory irritation. Prolonged or repeated exposure may cause asthmatic or other pulmonary responses. This product may cause sensitization by inhalation.
<b>Ingestion</b>	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 3. Composition / Information on Ingredients

<b>Components</b>	<b>CAS #</b>	<b>Percent</b>
Diethylene glycol monobutyl ether	112-34-5	1 - 5
Silica, Quartz	14808-60-7	0.1 - 1

## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.
<b>Skin contact</b>	For skin contact, flush with large amounts of water. If irritation persists, get medical attention.
<b>Inhalation</b>	If inhaled, immediately remove the affected person to fresh air. If symptoms persist, get medical attention.
<b>Ingestion</b>	If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.

## 5. Fire Fighting Measures

<b>Hazardous combustion products</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical, foam, carbon dioxide.
<b>Fire fighting equipment/instructions</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.

<b>Sensitivity to static discharge</b>	None Known
<b>Unusual fire &amp; explosion hazards</b>	During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water.

## 6. Accidental Release Measures

<b>Emergency action</b>	Wear appropriate protective equipment and clothing during clean-up. Do not allow product to enter sewer or waterways. Follow all Local, State, Federal and Provincial regulations for disposal.
<b>Containment procedures</b>	Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Cover spills with absorbant clay or sawdust and place in closed chemical waste containers. Use caution to avoid falls. Spilled adhesive is very slippery.
<b>Reporting</b>	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

## 7. Handling and Storage

<b>Handling</b>	Do not get this material in your eyes, on your skin, or on your clothing. Wash hands after handling and before eating. Launder work clothes frequently.
<b>Storage</b>	Keep the container tightly closed and in a cool, well-ventilated place. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. Do not freeze.
<b>Empty container precaution</b>	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## 8. Exposure Controls / Personal Protection

<b>Engineering controls</b>	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
<b>Personal protective equipment</b>	
<b>Eye protection</b>	Wear safety glasses; chemical goggles (if splashing is possible).
<b>Skin and body protection</b>	Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.
<b>Respiratory protection</b>	None required where adequate ventilation conditions exist. Special applications may necessitate the use of more stringent respiratory protection equipment.
<b>General</b>	Eyewash fountains and emergency showers should be readily available.

## 9. Physical & Chemical Properties

<b>Target solids</b>	100 %
<b>pH</b>	9
<b>Density</b>	1.27 G/CC
<b>Color</b>	White
<b>Physical state</b>	Liquid
<b>Freeze protect</b>	No

## 10. Chemical Stability & Reactivity Information

<b>Hazardous reactions/decomposition products</b>	Hazardous combustion products may include carbon monoxide, carbon dioxide and hydrocarbon fragments.
<b>Hazardous polymerization</b>	Will not occur.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Do not freeze.
<b>Stability</b>	Stable under normal conditions.

## 11. Toxicological Information

<b>Carcinogenicity</b>	If this product contains any carcinogens, they will be noted below:
------------------------	---

## 12. Ecological Information

**Ecotoxicological information** No data available for this product.

## 13. Disposal Considerations

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

**Waste disposal** Waste must be handled in accordance with all federal, state, provincial, and local regulations.

## 14. Transport Information

### DOT

Not regulated as hazardous goods.

### DOT NON-BULK

Not regulated as hazardous goods.

### IATA

Not regulated as hazardous goods.

### IMDG

Not regulated as hazardous goods.

## 15. Regulatory Information

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200

### Federal regulations

All components are on the U.S. EPA TSCA Inventory List.

### State regulations

If this product contains any California Proposition 65 chemicals at reportable levels they will be listed below:

### Restriction of Hazardous Substances (RoHS)

The product(s) covered by this (M)SDS do not contain or are under the prescribed levels of prohibited substances listed under 2011/65/EU Hazardous Substances Restricted or Prohibited in Electrical Equipment, including lead (CAS # 7439-92-1), mercury (CAS # 7439-97-6), cadmium (CAS # 7440-43-9), hexavalent chromium (CAS # 7440-47-3), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

### International regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

### Substances of Very High Concern (SVHC)

The product(s) covered by this (M)SDS do not include any of the substances above a concentration of 0.1% weight by weight (w/w) in the Candidate List of Substances of Very High Concern (SVHC) for authorization published or proposed by ECHA on the following dates:

- October 28, 2008
- August 31, 2009
- January 13, 2010
- March 8, 2010
- June 18, 2010
- October 14, 2010
- December 15, 2010
- June 20, 2011
- December 19, 2011
- February 17, 2012
- June 18, 2012
- December 19, 2012
- June 20, 2013
- December 16, 2013

### HMIS Ratings

Health: 2\*  
Flammability: 0  
Physical hazard: 1  
Personal protection: X

**SARA 311/312 HAZARD CATEGORIES**

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No  
Controlled

**WHMIS status**

**WHMIS labeling**



**WHMIS classification**

D2A - Other Toxic Effects-VERY TOXIC  
D2B - Other Toxic Effects-TOXIC

**16. Other Information**

**Disclaimer**

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

**Issue date**

02/04/2014

**Prepared by**

Bostik, Inc. Regulatory Affairs

**Supersedes**

02/04/2014

# Material Safety Data Sheet

## CBC 5001

### High Performance Adhesive

Issued: September 19, 2014

#### MANUFACTURED FOR:

CBC Flooring  
Commack, NY 11725

#### 24-hour Emergency:

Chemtrec 1-800-424-9300

#### PRODUCT IDENTIFICATION:

Class: Water Based Acrylic Adhesive  
Product Name: CBC 5001 High Performance Adhesive  
Trade Name: CBC 5001 High Performance Adhesive

#### HAZARDOUS INGREDIENTS:

	% BY Wt.	CAS Number	EXPOSURE GUIDELINES		
			ACGIH TLV	OSHA TLV-TWA	OSHA PEL-STEL
Material					
No known hazardous ingredients at levels above 1% by weight					

#### HAZARDOUS IDENTIFICATIONS:

**EMERGENCY OVERVIEW:** May cause slight eye irritation.

#### POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** May slight irritation.  
**SKIN CONTACT:** No known effect  
**INGESTION:** Not likely to occur  
**INHALATION:** Remove to fresh air. Contact physician if irritation occurs

#### CHRONIC / CARCINOGENICITY (CANCER CAUSING):

IARC: ..... Not suspected as a human carcinogen.  
OSHA: ..... Not suspected as a human carcinogen.  
NTP: ..... Not suspected as a human carcinogen.  
OTHER: None known.

#### FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Contact physician if irritation occurs.

**SKIN:** Wash with soap and water. Contact a physician if irritation occurs.

**INGESTION:** If swallowed, induce vomiting and seek medical attention immediately.

**INHALATION:** Remove to fresh air. Contact a physician if irritation occurs.

#### FIRE FIGHTING MEASURES AND FIRE HAZARDS

**FLASHPOINT:** None

**LOWER EXPLOSIVE LIMIT:** Not applicable

**UPPER EXPLOSIVE LIMIT:** Not applicable

**FIRE FIGHTING EQUIPMENT:** Use protective clothing and self contained breathing apparatus.

**EXTINGUISHING MEDIA:** Water fog, CO<sub>2</sub>, dry chemical or chemical foam.

**DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, smoke and fumes, and hydrocarbon fragments.

#### ACCIDENTAL RELEASE MEASURES (SPILLS OR LEAKS)

Dispense sand or vermiculite. Collect and place in waste container. Wash area thoroughly with water.

#### HANDLING AND STORAGE

**HANDLING:**

Use good hygiene practices. (Wash hands before eating, using wash room or smoking). Keep out of reach of children.

**STORAGE:** Store above 40°F

**EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Normally not required with good ventilation

**SKIN PROTECTION:** Wear gloves if contact with material is likely.

**EYE PROTECTION:** Wear splash goggles if contact with material is likely.

**ENGINEERING CONTROLS:** Normal room ventilation.

**STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable

**INCOMPATIBLE MATERIALS:** None known

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition is unlikely to occur

**HAZARDOUS POLYMERIZATION:** Will not occur.

**PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Off-white paste with low odor

**SPECIFIC GRAVITY:** Approx. 0.98 (68°F – 20°C)

**pH:** 7.5-8.5

**BOILING POINT:** >212°F, >100°C

**FREEZING POINT:** <32°F, <0°C

**SOLUBILITY IN WATER:** soluble

**% SOLIDS (BY WEIGHT):** 58-60

**% VOLATILE (BY WEIGHT):** 40-44

**VAPOR PRESSURE:** Same as water

**VAPOR DENSITY (AIR = 1):** same as water

**EVAPORATION RATE (BUTYL ACETATE=1):** Slower than butyl acetate

**EVAPORATION RATE (ETHYL ETHER = 1):** Slower than ethyl ether

**TOXICOLOGICAL INFORMATION**

This product has been tested for toxicity (acute inhalation; acute dermal; skin irritation; oral) and has been found to be non-toxic as defined by The Federal Hazardous Substance Act, 16 CFR 1500.3

**ECOLOGICAL INFORMATION**

No data available.

**DISPOSAL CONSIDERATIONS**

Incinerate at an EPA approved facility or dispose of in accordance with all federal, state/provincial and local regulations. PROPER WASTE DISPOSAL IS THE RESPONSIBILITY OF THE OWNER OF THE WASTE!

**TRANSPORTATION INFORMATION**

D.O.T. / T.D.G.: NOT REGULATED

**REGULATORY INFORMATION**

**TSCA:** Components of this product are listed on the TSCA inventory.

**WHMIS INFORMATION:** NOT CONTROLLED

**OSHA:** Not hazardous.

**SECTION 313:** This product contains the following substances subject to the reporting requirements of Section 313 of TITLE III of Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372: None known.

**PROPOSITION 65:** This product contains the following chemicals known to the state of California to cause cancer or reproductive toxicity: None known.

**V.O.C.:** <1.0 Lbs. / Gal. (SCAQMD Rule 1168)  
<0.1 G/L

**VHAP:** 0 lb. /lb solids

**HAZARD INDEX:**

- 0: Minimal Hazard
- 1: Slight Hazard
- 2: Moderate Hazard
- 3: Serious Hazard
- 4: Severe Hazard

**HMIS RATINGS:**

HEALTH: ..... 1  
FLAMMABILITY: ..... 1  
REACTIVITY: ..... 0  
PERSONAL PROTECTION: Depends on application and ventilation.

**OTHER INFORMATION**

Version No. 1

All employees or contractors, etc., who use this product must have access to this Material Safety Data Sheet.

**PREPARED BY:** CBC Flooring



# MATERIAL SAFETY DATA SHEET

Product Name: **CENTI 2001 Wet Set Adhesive**

Solid Vinyl Tile and Plank Adhesive



Product Code:

Key Number: **D-2001**

MSDS Number: **825608PM**

Page 1 of 4

MSDS Date: **08/07/2008**

Emergency Telephone Numbers: **256.767.4990**

Manufactured in the USA for Centiva by International Floors of America, Inc.

## Flooring Products

<b>HEALTH</b>	<b>0</b>
<b>FIRE</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>SPECIFIC</b>	<b>N/A</b>

**KEEP OUT OF REACH OF CHILDREN. FOR EMERGENCY MEDICAL INFORMATION, CALL 1-888-853-1758.**

### 1. IDENTIFICATION

See Addendum:

Reference Page:

Chemical Name: **LD50/LC50I**

Chemical Family: **Clay/Glycol**

CAS # **1332-58-7, 57-55-6**

*Unlisted ingredients are not hazardous per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 9 for any additional exposure limit guidelines.*

Synonyms/Common Name: **Kaolin Clay/Propylene Glycol**

DOT Information: **Not regulated**

### 2. PHYSICAL DATA

See Addendum:

Reference Page:

Appearance:

Color: **Off-white**

State: **Semi-Solid**

Odor Characteristics: **Odorless**

pH: **9.5**

Viscosity:

Specific Gravity (Water=1): **1.13**

Vapor Density (Air=1): **Heavier than air**

Vapor Pressure::

Melting Point: **Not established**

Boiling Point: **Not established**

Flash Point: **Non-Flammable**

Freezing Point: **Not established**

Percent Volatility:

Evaporation Rate (BAc=1): **Not established**

Solubility in Water: **Soluble**

Solubility in Oil: **Not established**

Solubility in Acetone: **Not established**

### 3. INGREDIENTS

See Addendum:

Reference Page:

Material/Components	CAS#	CAS Name	TLV Units	Approximate %
<b>Kaolin Clay</b>	<b>1332-58-7</b>			<b>10-30%</b>
<b>Propylene Glycol</b>	<b>27-55-6</b>			<b>1-5%</b>

*Contains Crystalline Silica. Prolonged overexposure to dust created by abrasion of product in its cured state may cause permanent lung damage and reduce pulmonary function. Avoid breathing dust.*

*May be skin and eye irritant. Avoid contact with skin or eyes. For eye contact, flush thoroughly with water for 20 minutes and get immediate medical attention. For skin contact, rinse well with water.*

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Product Name: **CENTI 2001 Wet Set Adhesive**

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MSDS Date: **08/07/2008**

Emergency Telephone Numbers: **256.767.4990**

Manufactured in the USA for Centiva by International Floors of America, Inc.

## 4. HAZARDS IDENTIFICATION

See Addendum:

Reference Page:

HMIS Rating: **Health—0%, Flammability—0%, Reactivity—0%**

Potential Health Effects by Route of Entry:

Eye: **No irritation hazard in normal industrial use.**

Skin: **Can cause minor skin irritation, defatting, and dermatitis.**

Inhalation: **Can cause minor respiratory irritation. Inhalation of dusts produced during cutting, grinding, or sanding of this product may cause irritation of the respiratory tract.**

*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.*

Ingestion: **Ingestion is not an anticipated route of exposure. No hazard in normal industrial use.**

Long-Term (Chronic) Health Effects:

Target Organ(s): **Lungs**

Regulated Carcinogen Status: **Unless noted, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.**

Existing Health Conditions Affected by Exposure: **Lung Disease.**

## 5. FIRST AID MEASURES

See Addendum:

Reference Page:

Inhalation: **Remove to fresh air. Call a physician if symptoms persist.**

Skin Contact: **Wash with soap and water.**

Eye Contact: **Use an eye wash to remove any chemical from your eye.**

Ingestion: **Do not induce vomiting. Seek medical attention if symptoms develop.**

Notes to Physician: **Provide medical care provider with this MSDS.**

## 6. FIRE FIGHTING MEASURES

See Addendum:

Reference Page:

Flash Point: **Non-Flammable**

Auto-Ignition Temperature: **Not Established**

Lower Explosive Limit (% in air): **Not established**

Upper Explosive Limit (% in air): **Not established**

Extinguishing Media: **Use water spray, foam, dry chemical, or carbon dioxide.**

Hazardous Combustion Products: **Carbon dioxide, Carbon monoxide.**

Extinguishing Media: **Use water spray, foam, dry chemical, or carbon dioxide.**

Special Fire-Fighting Procedures: **Persons exposed to products of combustion should wear self-contained breathing apparatus And full protective equipment.**

Unusual Fire and Explosion Hazards: **There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.**

# MATERIAL SAFETY DATA SHEET

Product Name: **CENTI 2001 Wet Set Adhesive**

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Product Code:

Key Number: **D-2001**

MSDS Number: **825608PM**

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MSDS Date: **08/07/2008**

Emergency Telephone Numbers: **256.767.4990**

Manufactured in the USA for Centiva by International Floors of America, Inc.

## 7. ACCIDENTAL RELEASE MEASURES

See Addendum:

Reference Page:

Special Protection: **No adverse health effects are expected from clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.**

Clean Up: **Dike if necessary. Contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.**

**Transport Emergency Telephone Number (CHEMTREC): 1.800.424.9300**

## 8. HANDLING AND STORAGE

See Addendum:

Reference Page:

Storage/Special Precautions: **Store in a cool, dry place.**

Handling/Other Precautions: **No special handling instructions due to toxicity.**

## 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

See Addendum:

Reference Page:

Respiratory Protection: **Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).**

Eye Protection: **Wear safety glasses when handling this product.**

Skin Protection: **Avoid skin contact by wearing chemically resistant gloves.**

Other Clothing: **None required**

Other Equipment:

Work/Hygienic Practices: **Thorough washing of skin with soap.**

Ventilation: **Local exhaust; use with adequate ventilation. Open doors and windows to create cross ventilation during use and until adhesive dries.**

## 10. HEALTH HAZARD DATA

See Addendum:

Reference Page:

Threshold Limit Value: **N/A**

Effects of Overexposure: **None known**

Inhalation: **None known**

Skin Contact: **None known**

Eye Contact: **None known**

Ingestion: **None known**

Delayed Effects: **None known**

Medical Conditions Aggravated by Exposure: **None known**

# MATERIAL SAFETY DATA SHEET

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## 11. STABILITY AND REACTIVITY DATA

See Addendum:

Reference Page:

Stability: **Stable**

Incompatibility (materials to avoid): **Oxidizing agents and caustics**

Hazardous Combustion or Decomposition Products: **Carbon dioxide, carbon monoxide.**

Hazardous Polymerization: **Will not occur**

Conditions to Avoid: **N/A**

## 12. TOXICOLOGICAL INFORMATION

See Addendum:

Reference Page:

Kaolin Clay: **Not Established**

Propylene Glycol: **Oral LD50 Rat = 20 g/kg, Dermal LD50 Rabbit = 20800 mg/kg**

## 13. DISPOSAL CONSIDERATION

See Addendum:

Reference Page:

**To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local, or provincial authorities for more restrictive requirements.**

## 14. SPILL OR LEAK PROCEDURES

See Addendum:

Reference Page:

Actions to Take for Leaks and Spills: **Scrape up excess and place in DOT approved container. Clean with soapy water.**

Waste Disposal Method: **Dispose of as per local, state, and federal regulations.**

## 15. TRANSPORTATION INFORMATION

See Addendum:

Reference Page:

Consult **Bill of Lading** for transportation information.

DOT: **Not regulated**

IATA: **No regulated.**

# MATERIAL SAFETY DATA SHEET

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Product Code:

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## 16. REGULATORY INFORMATION

See Addendum:

Reference Page:

### INVENTORY STATUS

**U.S. EPA TSCA:** This product is in compliance with the Toxic Substances Control Act Inventory requirements.

**Canadian CEPA DSL:** This product is in compliance with the Canadian Domestic Substance List requirements.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-655-1306 xs227 (Canada) to request an export review.

### FEDERAL REPORTING

**EPA SARA Title III Section 313**

This product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

**WHMIS STATUS:** This product is not controlled under the Canadian Workplace Hazardous Materials Information System

### STATE REPORTING

**Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:** This product contains substances known to the State of California to cause cancer or reproductive harm.

## 17. ADDITIONAL INFORMATION

See Addendum:

Reference Page:

This Material Safety data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Prepared by: **The Global Regulatory Department**

Telephone: **651-236-5842**

*This information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Specialty Construction Brands, Inc. from its suppliers, and because Specialty Construction Brands, Inc. has no control over the conditions of handling and use, Specialty Construction Brands, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Specialty Construction Brands, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Specialty Construction Brands, Inc. products to comply with all applicable federal, state, and local laws and regulations.*

**CENTI SP 6000**

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 06/02/2015

Version: 2.1

**SECTION 1: IDENTIFICATION****Product Identifier****Product Form:** Mixture**Product Name:** CENTI SP 6000**Intended Use of the Product****Use of the Substance/Mixture:** No use is specified.**Name, Address, and Telephone of the Responsible Party****Company**

Tandus | Centiva by Tarkett USA

1701 Mars Hill road,

Florence AL 35630.

**Manufacturer**

Tarkett Inc.

30000 Aurora Rd.

Solon Ohio 44139

**Emergency Telephone Number****Emergency Number** : CHEMTREC 1-800-424-9300**SECTION 2: HAZARDS IDENTIFICATION****Classification of the Substance or Mixture****Classification (GHS-US)**

Not classified

**Label Elements****GHS-US Labeling** No labeling applicable**Other Hazards**

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Name	Product Identifier	% (w/w)
Quartz*	14808-60-7	0.1 - 1

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

**SECTION 4: FIRST AID MEASURES****Description of First Aid Measures****General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.**Skin Contact:** Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse.**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

# CENTI SP 6000

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** None expected under normal conditions of use.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** May cause mild skin irritation.

**Eye Contact:** May cause minor eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Product is not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions are unlikely to occur under normal circumstances.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Do not allow run-off from firefighting to enter drains or water courses. Do not breathe fumes from fires or vapors from decomposition.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

**Other Information:** Refer to Section 9 for flammability properties.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all contact with skin, eyes, or clothing. Do not breathe vapor, mist, spray.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Place absorbed material in closed containers for disposal. Clean up spills immediately and dispose of waste safely. Notify authorities if product enters sewers or public waters.

### **Reference to Other Sections**

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

# CENTI SP 6000

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Paste
Appearance	: Off White paste
Odor	: Mild odor
Odor Threshold	: Not available
pH	: 9.0 – 10.0
Evaporation Rate	: Same as Water
Melting Point	: Not available
Freezing Point	: ≈ 32 °F (0 °C)
Boiling Point	: ≈ 212 °F (100.00 °C) (aqueous phase)
Flash Point	: None
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: None
Upper Flammable Limit	: None
Vapor Pressure	: Same as Water
Relative Vapor Density at 20 °C	: Same as Water
Relative Density	: Not available
Specific Gravity	: 1.1648



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<b>Solubility</b>	: Not available
<b>Partition Coefficient: N-Octanol/Water</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge.
<b>VOC Content</b>	: <1 g/L (<0.1 lbs/gal)

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**pH:** 7.5 - 10

**Serious Eye Damage/Irritation:** Not classified

**pH:** 7.5 - 10

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause mild skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause minor eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** No additional information available

**Persistence and Degradability** Not available

**Bioaccumulative Potential**

**Mobility in Soil** Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

# CENTI SP 6000

## Safety Data Sheet

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### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

#### US State Regulations

#### Canadian Regulations

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 06/02/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **Party Responsible for the Preparation of This Document**

Tarkett NA / 30000 Arora Rd. Solon Ohio 44139 (800) 899-8916 ext. 9297

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

**SAFETY DATA SHEET**

REVISION DATE: 02-17-2016

SUPERSEDES: 06-01-2015

**SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER****PRODUCT INFORMATION**

PRODUCT: CHAPCO 29  
PRODUCT DESCRIPTION: Solvent based adhesive  
INTENDED USE: Adhesive  
PRODUCT IDENTIFIER: 827865PM

**COMPANY INFORMATION**

H.B. Fuller Construction Products Inc.  
1105 S. Frontenac Street  
Aurora, IL 60504  
Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758  
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION****GHS Hazard Symbols:****GHS Signal Word:**

Danger

**GHS Classification:**

Flammable Liquid Category 1; Germ Cell Mutagenicity Category 1B; Carcinogenicity Category 1B; Skin Corrosion/Irritation Category 2; Reproductive Toxicity Category 2; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2; Hazardous to the aquatic environment - Acute Category 3

**GHS Hazard Phrases:**

Extremely flammable liquid and vapour.; Causes skin irritation.; May cause genetic defects.; May cause cancer.; Suspected of damaging fertility or the unborn child.; May cause damage to organs through prolonged or repeated exposure.; Harmful to aquatic life.

**GHS Precautions:****Safety Precautions:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**First Aid Measures:**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash before reuse. In case of fire: Use water spray, foam, dry chemical or carbon dioxide to extinguish.

**Storage:**

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	PERCENT	Classification	Note
Aliphatic petroleum distillate	64742-89-8	50 - 70	Asp. Tox. 1; H304 Carc. 1B; H350 Muta. 1B; H340	
Toluene	108-88-3	10 - 30	Asp. Tox. 1; H304 Acute Tox. 4; H302 Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 STOT RE 2; H373 STOT SE 3; H336	

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

**SECTION 4: FIRST AID MEASURES**

**IF IN EYES:** Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

**IF ON SKIN:** Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

**IF INHALED:** Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

**IF SWALLOWED:** Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

**SECTION 5: FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water spray, foam, dry chemical or carbon dioxide.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors are heavier than air and can travel to a source of ignition and flash back.

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, Carbon monoxide

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPECIAL PROTECTION:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

**METHODS FOR CLEAN-UP:** Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

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Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

**SECTION 7: HANDLING AND STORAGE**

**Handling:** Avoid contacting and avoid breathing the material. Use only in a well ventilated area.  
 Keep away from heat, sparks and flame.  
 Wash thoroughly after handling.  
 Keep container closed.  
 Emptied container retains vapor and product residue.  
 Observe all labeled precautions until container is cleaned.  
 Drums of this material should be grounded when pouring.  
**DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.**

**Storage:** Store in a cool, dry, ventilated location. Keep away from heat, sparks, flame and other sources of ignition. Keep container closed.  
 Consult the Technical Data Sheet for specific storage instructions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Toluene		20 ppm TWA	200 ppm TWA 300 ppm Ceiling

**ENGINEERING CONTROL METHODS:**

**VENTILATION:** Use local exhaust ventilation or other engineering controls to minimize exposures.

**EYE PROTECTION:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

**SKIN PROTECTION:** Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.

**GLOVES:** Nitrile

**RESPIRATORY PROTECTION:** Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Liquid
COLOR:	Tan
ODOR:	Solvent
ODOR THRESHOLD:	Not established
pH:	Not established
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	-4°C; 25°F TCC
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	5.91
SPECIFIC GRAVITY:	0.710
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	28.0
VOC, weight percent	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Not established
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Aliphatic petroleum distillate	Oral LD50 Mouse 5,000 mg/kg Dermal LD50 Rabbit 3,000.00 mg/kg
Toluene	Oral LD50 Rat 636 mg/kg Inhalation LC50 Rat 12.50 mg/l

**This product is a mixture. Unless noted, the information below is based on components.**

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Serious eye damage / irritation :Eye contact may cause moderate to severe eye irritation. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: May cause genetic defects.

Carcinogenicity: Contains a material that may cause cancer.

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Reproductive toxicity: Contains a substance that is a possible reproductive hazard based on animal studies.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: May cause drowsiness or dizziness.

Specific target organ toxicity-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Reproductive system Liver Central nervous system

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Liver disease

**SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.  
 MOBILITY: No data available.  
 PERSISTENCE: No data available.  
 BIOACCUMULATION: No data available.

**This product has not been tested for ecological effects. Relevant information for components is listed below:**

Component:	Ecotoxicity values:
Toluene	<p><b>Acute Toxicity (Fish):</b> 96 Hr LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static]</p> <p><b>Acute Toxicity (Daphnia):</b> 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L</p> <p><b>Acute Toxicity (Algae):</b> 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]</p>

**SECTION 13: DISPOSAL CONSIDERATIONS**

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

LAND DISPOSAL RESTRICTIONS: Toluene

**SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: UN1133, ADHESIVES, 3, II  
 IATA: UN1133, ADHESIVES, 3, II

**SECTION 15: REGULATORY INFORMATION**

**INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.  
 CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from DSL requirements.  
 EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product



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cannot be imported into Europe unless the REACH requirements are met.

AUSTRALIA AICS: This product contains a component that is not on the Australian Inventory (AICS).

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at [reg.request@hbfuller.com](mailto:reg.request@hbfuller.com) to request an export review.

**FEDERAL REPORTING****EPA SARA Title III Section 313**

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
Toluene	108-88-3	10 - 30

**STATE REPORTING**

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List	CAS	Percent
Toluene (Developmental toxin)	108-88-3	10 - 30
Benzene, methyl- (Female reproductive toxin)	108-88-3	10 - 30

**Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS.

**SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 02-17-2016

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 3 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of



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the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

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REVISION DATE: 06-17-2015

SUPERSEDES: 05-21-2012

**SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER**

**PRODUCT INFORMATION**

PRODUCT: CHAPCO 305  
 PRODUCT DESCRIPTION: Mastic  
 INTENDED USE: Adhesive  
 PRODUCT IDENTIFIER: 831971PM

**COMPANY INFORMATION**

H.B. Fuller Construction Products Inc.  
 1105 S. Frontenac Street  
 Aurora, IL 60504  
 Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758  
 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION**

GHS Hazard Symbols:



**GHS Signal Word:** Danger  
**GHS Classification:** Carcinogenicity Category 1A  
**GHS Hazard Phrases:** May cause cancer.  
**GHS Precautions:**  
**Safety Precautions:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.  
**First Aid Measures:** IF exposed or concerned: Get medical advice/attention.  
**Storage:** Store locked up.  
**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	PERCENT	Classification	Note
Crystalline silica	14808-60-7	0.1 - 1	Carc. 1A; H350 STOT RE 1; H372	*(see below)

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

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**SECTION 4: FIRST AID MEASURES**

**IF IN EYES:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

**IF ON SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**IF INHALED:** Remove to fresh air. Call a physician if symptoms persist.

**IF SWALLOWED:** Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

**SECTION 5: FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water spray, foam, dry chemical or carbon dioxide.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, Carbon monoxide

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPECIAL PROTECTION:** No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this MSDS.

**METHODS FOR CLEAN-UP:** Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

**SECTION 7: HANDLING AND STORAGE**

**Handling:** No special handling instructions due to toxicity.

**Storage:** Store in a cool, dry place. Protect from freezing  
Consult the Technical Data Sheet for specific storage instructions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Crystalline silica	* (see below)	0.025 mg/m <sup>3</sup> TWA (respirable fraction)	((250)/(%SiO <sub>2</sub> + 5) mppcf TWA (respirable)); ((10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA (respirable)); ((30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA (total dust))

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

**SAFETY DATA SHEET****ENGINEERING CONTROL METHODS:**

VENTILATION:	Use local exhaust ventilation or other engineering controls to minimize exposures.
EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Not normally required. Wear chemically resistant gloves to prevent prolonged or repeated contact.
GLOVES:	Not normally required. Use nitrile gloves if conditions warrant.
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Semi-solid
COLOR:	Off-white
ODOR:	Neutral
ODOR THRESHOLD:	Not established
pH:	8.8
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	12.40
SPECIFIC GRAVITY:	1.490
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	74.5
VOC, weight percent	0.22
VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined)	5.1g/liter of material

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Not established
HAZARDOUS POLYMERIZATION:	Will not occur.

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HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Calcium carbonate	ORAL LD50 RAT 6,450 MG/KG
Water	ORAL LD50 RAT > 90 ML/KG

**This product is a mixture. Unless noted, the information below is based on components.**

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

**SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.  
 MOBILITY: No data available.  
 PERSISTENCE: No data available.  
 BIOACCUMULATION: No data available.

**This product has not been tested for ecological effects. Relevant information for components is listed below:**

Component:	Ecotoxicity values:
No data available.	Acute Toxicity (Fish): Acute Toxicity (Daphnia): Acute Toxicity (Algae):

**SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

**SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED  
 IATA: NOT REGULATED

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**SECTION 15: REGULATORY INFORMATION**

**INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from DSL requirements.

EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.

AUSTRALIA AICS: This product is in compliance with the Australian Inventory of Chemical Substances requirements.

KOREAN TCCL: This product is in compliance with the Korean Existing Chemicals List requirements.

PHILIPPINES: This product is in compliance with the Philippine Inventory of Chemicals and Chemical Substances requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at [reg.request@hbfuller.com](mailto:reg.request@hbfuller.com) to request an export review.

This product contains a chemical substance that is subject to a Significant New Use Rule (SNUR) under Section 5(a)(2) of TSCA:

.alpha.(Nonylphenyl)-.omega.-hydroxy-poly(oxy-1,2-ethanediyl)  
.alpha.-(4-Nonylphenyl)-.omega.-hydroxy-poly(oxy-1,2-ethanediyl)

79 FR 59186, Oct 1, 2014 (Proposed rule)

**FEDERAL REPORTING**

**EPA SARA Title III Section 313**

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
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**STATE REPORTING**

**Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:**

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List	CAS	Percent
Quartz (Carcinogen)	14808-60-7	0.1 - 1
Ethyl acrylate (Carcinogen)	140-88-5	0.001 - 0.01
Dibromoacetonitrile (Carcinogen)	3252-43-5	< 10 ppm
Acrylamide (Carcinogen)	79-06-1	< 10 ppm
1,4-Dioxane (Carcinogen)	123-91-1	< 10 ppm
Acrylamide (Developmental toxin)	79-06-1	< 10 ppm
Methanol (Developmental toxin)	67-56-1	< 10 ppm
Acrylamide (Male reproductive toxin)	79-06-1	< 10 ppm

**Substances of Very High Concern (SVHC) Content:**

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Unless listed below, this product does not contain SVHC's.

4-Nonylphenol, ethoxylated

4-Nonylphenol, ethoxylated

**SECTION 16: OTHER INFORMATION**

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SDS VERSION DATE: 06-17-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

### SAFETY DATA SHEET

REVISION DATE: 02-17-2015

SUPERSEDES: 08-06-2013

#### SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

##### PRODUCT INFORMATION

PRODUCT: CHAPCO SAFE-SET 3  
 PRODUCT DESCRIPTION: Mastic  
 INTENDED USE: Adhesive  
 PRODUCT IDENTIFIER: 825621PM

##### COMPANY INFORMATION

H.B. Fuller Construction Products Inc.  
 1105 S. Frontenac Street  
 Aurora, IL 60504  
 Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758  
 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Symbols:



**GHS Signal Word:** Warning  
**GHS Classification:** Skin Sensitisation Category 1  
**GHS Hazard Phrases:** May cause an allergic skin reaction.

**GHS Precautions:**  
**Safety Precautions:** Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**First Aid Measures:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Rosin, pentaerythritol ester	8050-26-8	1 - 5	Aquatic Chronic 4; H413 Eye Irrit. 2A; H319 Skin Sens. 1; H317	
Modified rosin ester	Proprietary	0.1 - 1	Eye Irrit. 2; H319 Skin Sens. 1; H317	

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.



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### SECTION 4: FIRST AID MEASURES

**IF IN EYES:** None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

**IF ON SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**IF INHALED:** Remove to fresh air. Call a physician if symptoms persist.

**IF SWALLOWED:** Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

### SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water spray, foam, dry chemical or carbon dioxide.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, Carbon monoxide Nitrogen containing gases

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**SPECIAL PROTECTION:** No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this SDS.

**METHODS FOR CLEAN-UP:** Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

### SECTION 7: HANDLING AND STORAGE

**Handling:** No special handling instructions due to toxicity.

**Storage:** Store in a cool, dry place. Protect from freezing. Consult the Technical Data Sheet for specific storage instructions.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE LIMITS:

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Kaolin clay	* (see below)	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Mineral oil		No data available.	5 mg/m <sup>3</sup> TWA (as mist)

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

#### ENGINEERING CONTROL METHODS:

## SAFETY DATA SHEET

**VENTILATION:** Use local exhaust ventilation or other engineering controls to minimize exposures.

**EYE PROTECTION:** Wear safety glasses when handling this product.

**SKIN PROTECTION:** Not normally required. Wear chemically resistant gloves to prevent prolonged or repeated contact.

**GLOVES:** Not normally required. Use nitrile gloves if conditions warrant.

**RESPIRATORY PROTECTION:** Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Semi-solid
COLOR:	Tan
ODOR:	Slight Aromatic
ODOR THRESHOLD:	Not established
pH:	9.9
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	Non flammable > 204 C (400 F) COC
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	9.75
SPECIFIC GRAVITY:	1.170
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	64.5
VOC, weight percent	Not determined

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**CHEMICAL INCOMPATIBILITY:** Not established

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide Nitrogen containing gases

### SECTION 11: TOXICOLOGICAL INFORMATION

**Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
No data available.	

## SAFETY DATA SHEET

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**This product is a mixture. Unless noted, the information below is based on components.**

Skin corrosion / irritation: Can cause minor skin irritation, defatting, and dermatitis.

Serious eye damage / irritation :No irritation hazard in normal industrial use.

Respiratory / skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: No data available.

Medical Conditions Aggravated by Exposure: Lung disease

### SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available for this product.  
 MOBILITY: No data available.  
 PERSISTENCE: No data available.  
 BIOACCUMULATION: No data available.

**This product has not been tested for ecological effects. Relevant information for components is listed below:**

Component:	Ecotoxicity values:
Urea	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Poecilia reticulata: 16200 - 18300 mg/L <b>Acute Toxicity (Daphnia):</b> 24 Hr EC50 Daphnia magna Straus: >10000 mg/L; 48 Hr EC50 Daphnia magna: 3910 mg/L [Static] <b>Acute Toxicity (Algae):</b> Not established

### SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

### SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED  
 IATA: NOT REGULATED

### SECTION 15: REGULATORY INFORMATION

#### INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

CANADIAN CEPA DSL: This product contains a component that is not on the DSL. If you are the importer of this product into Canada, contact H.B. Fuller for chemical tracking and notification information.

**SAFETY DATA SHEET**

**EUROPEAN REACH:** As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.

**AUSTRALIA AICS:** This product contains a component that is not on the Australian Inventory (AICS).

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at [reg.request@hbfuller.com](mailto:reg.request@hbfuller.com) to request an export review.

**FEDERAL REPORTING**

**EPA SARA Title III Section 313**

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
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**WHMIS STATUS:** Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.  
D2B

**STATE REPORTING**

**Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:**

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Quartz	(Carcinogen)	14808-60-7	0.01 - 0.1
Ethyl acrylate	(Carcinogen)	140-88-5	< 10 ppm
Naphthalene	(Carcinogen)	91-20-3	< 10 ppm
C.I. Direct blue 15	(Carcinogen)	2429-74-5	< 10 ppm
Acetaldehyde	(Carcinogen)	75-07-0	< 10 ppm
Acrylamide	(Carcinogen)	79-06-1	< 10 ppm
Acrylamide	(Developmental toxin)	79-06-1	< 10 ppm
Acrylamide	(Male reproductive toxin)	79-06-1	< 10 ppm

**Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's.  
4-Nonylphenol, ethoxylated

**SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 02-17-2015

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

**SAFETY DATA SHEET**

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Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

**CHEMREX® CX-941**

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**1. PRODUCT AND COMPANY INFORMATION**

Company : **Degussa Building Systems**  
 889 Valley Park Drive  
 Shakopee, MN 55379

Telephone : 952-496-6000

Emergency telephone number : (800) 424-9300  
 (703) 527-3887 (Outside Continental US)

Product name : CHEMREX® CX-941

MSDS ID No. : 10718

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

Product Use Description : Adhesive

**2. HAZARDOUS INGREDIENTS**

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV</u>	<u>STEL</u>	<u>PEL</u>	<u>CEIL</u>	<u>Weight %</u>
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	64742-46-7	N.E.	N.E.	N.E.	N.E.	5.00 - 10.00 %
POLYMETHYLENE POLYPHENYL ISOCYANATE	9016-87-9	N.E.	N.E.	N.E.	N.E.	0.00 - 5.00 %
METHYLENE BISPHENYL DIISOCYANATE	101-68-8	0.005 ppm	N.E.	N.E.	0.02 ppm	0.00 - 5.00 %

**3. HAZARDS IDENTIFICATION**

HMIS® Rating : HEALTH 2 FLAMMABILITY 1 PHYSICAL HAZARD 0

WHMIS Class : D2B

Primary Routes of Entry : Inhalation  
 Skin contact  
 Eye contact

**Effects of Overexposure**

Inhalation : Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful.

Skin : Can cause slight irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.

Eyes : Can cause slight to moderate irritation, redness, tearing and blurred vision.

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- Ingestion : Intake can cause gastrointestinal irritation and nausea.
- Chronic exposure : This product contains Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2). Repeated or prolonged over exposure to free respirable Crystalline (quartz) silica can cause silicosis or other delayed and serious lung injury. No exposure to respirable Crystalline (quartz) Silica anticipated with recommended use of product. Existing respiratory or skin ailments may be aggravated by exposure. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") can be harmful or fatal. This product contains isocyanates. Prolonged repeated exposure to isocyanates can lead to skin sensitization. For persons so sensitized even brief exposures to an isocyanate can produce reddening, swelling, rash, or blisters. Similarly, prolonged and repeated exposure to isocyanates can lead to respiratory sensitization. In such individuals, brief exposures to isocyanates at levels well below established exposure limits can produce chemical asthma and nonspecific asthmatic conditions.

**Carcinogenicity**

	ACGIH	IARC	NTP	OSHA
HYDROTREATED MIDDLE PETROLEUM DISTILLATES	N.E.	N.E.	N.E.	N.E.
POLYMETHYLENE POLYPHENYL ISOCYANATE	N.E.	No data.	N.E.	N.E.
METHYLENE BISPHENYL DIISOCYANATE	N.E.	No data.	N.E.	N.E.

**4. FIRST AID MEASURES**

- Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

**5. FIRE-FIGHTING MEASURES**

- Flash point : 250.00 °F (121.11 °C) Method: Taglibue C. C.
- Autoignition temperature : no data available
- Lower explosion limit : 1.6 %(V)
- Upper explosion limit : 10.2 %(V)
- Suitable extinguishing media : carbon dioxide (CO2)

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dry chemical  
water fog

- Fire and Explosion Hazards : Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.
- Special Fire-fighting Procedures : As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

- Methods for cleaning up : Wear appropriate protective equipment (refer to section 8). Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

**7. HANDLING AND STORAGE**

- Handling : Keep out of reach of children. For personal protection see section 8.
- Storage : Keep tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Eye protection : Wear as appropriate:  
safety glasses with side-shields  
goggles  
face-shield
- Hand protection : Wear as appropriate:  
impervious gloves
- Body Protection : Wear as appropriate:  
impervious clothing  
preventive skin protection
- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
- Hygienic Practices : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
- Engineering Controls : Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Color : clear
- Physical State : liquid



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Odor	:	mild oily
pH	:	not applicable
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	342.00 - 514.00 °F (172.22 - 267.78 °C)
Freeze Point	:	no data available
Water solubility	:	slightly soluble
Specific Gravity	:	1.25
Viscosity	:	no data available
Evaporation rate	:	Slower than Butyl acetate
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	45 g/l

**10. STABILITY AND REACTIVITY**

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Prolonged exposure to high temperatures
Materials to avoid	:	strong oxidizing agents
Hazardous decomposition products	:	Thermal decomposition: MDI vapors Irritating or toxic fumes Oxides of carbon
Hazardous polymerization	:	Will not occur under normal conditions.

**11. TOXICOLOGICAL INFORMATION**

**Acute inhalation toxicity**

<u>Product</u>	<u>Type</u> LC50	<u>Value</u> no data available	<u>Species</u>	<u>Exposure time</u>
<u>Component</u>				
HYDROTREATED MIDDLE PETROLEUM	LC50	no data available		

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DISTILLATES

POLYMETHYLENE POLYPHENYL ISOCYANATE	LC50	no data available
METHYLENE BISPHENYL DIISOCYANATE	LC50	no data available

**Acute oral toxicity**

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Oral)	no data available	

Component

HYDROTREATED MIDDLE PETROLEUM DISTILLATES	LD50 (Oral)	no data available
POLYMETHYLENE POLYPHENYL ISOCYANATE	LD50 (Oral)	no data available
METHYLENE BISPHENYL DIISOCYANATE	LD50 (Oral)	9,200 mg/kg

**Acute dermal toxicity**

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Dermal)	no data available	

Component

HYDROTREATED MIDDLE PETROLEUM DISTILLATES	LD50 (Dermal)	no data available
POLYMETHYLENE POLYPHENYL ISOCYANATE	LD50 (Dermal)	no data available
METHYLENE BISPHENYL DIISOCYANATE	LD50 (Dermal)	no data available

**12. ECOLOGICAL INFORMATION**

Ecotoxicological Information : There is no data available for this product.

**13. DISPOSAL CONSIDERATIONS**

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

**14. TRANSPORT INFORMATION**

DOT	: Proper shipping name	Not regulated
IATA	: Proper shipping name	Not regulated

**15. REGULATORY INFORMATION**

**SARA 311/312 (RTK)**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

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IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

**SARA 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
0.00 - 5.00 %	9016-87-9	POLYMETHYLENE POLYPHENYL ISOCYANATE
0.00 - 5.00 %	101-68-8	METHYLENE BISPHENYL DIISOCYANATE

**CERCLA**

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
5,000 lbs	101-68-8	METHYLENE BISPHENYL DIISOCYANATE

**TSCA Section 12(b) Export Notification**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS No.</u>	<u>Chemical Name</u>
----------------	----------------------

There are no TSCA 12(b) Chemicals in this product.

**California Proposition 65**

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

<u>CAS No.</u>	<u>Chemical Name</u>
14808-60-7	SILICA, CRYSTALLINE QUARTZ
7440-43-9	CADMIUM
7439-92-1	INORGANIC LEAD
7440-38-2	ARSENIC

**16. OTHER INFORMATION**

- Legend : N.E. - Not Established  
TLV - Threshold Limit Value  
STEL - Short Term Exposure Limit  
PEL - Permissible Exposure Limit  
CEIL - Ceiling
- Prepared By : Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

**CHEMREX® CX-941**

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End of MSDS.

# NEW

## MATERIAL SAFETY DATA SHEET

DONCO INDUSTRIES LTD. 1001, Yamaska east Street Farnham, Quebec Canada J2N 1J7	page : 1  Tel. : (514) 293-3173 Fax : (514) 293-8385
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### SECTION I - PRODUCT IDENTIFICATION

Product code...: A0083525000000	Revision date: 05/01/94
Product name...: <del>DONCO VINYL SEAM SEALER</del>	Version: 3.0
Chemical family: SEAM SEALER	
Utilization...: SEAM SEALER	

*New floor PT 5/00*

WHMIS classification: B/2 D/2B	
Supplier: DONCO INDUSTRIES LTD. 1001, Yamaska east Street Farnham, Quebec Canada J2N 1J7	Manufacturer: DONCO INDUSTRIES LTD. 1001, YAMASKA EAST STREET FARNHAM, QUEBEC CANADA J2N 1J7
Telephone : (514)-293-3173 Emergency : (514)-293-3173 Canutec : (613)-996-6666	Telephone : (514)-293-3173 Emergency : (613)-996-6666 Canutec : (613)-996-6666

### SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	# CAS	%	LC50 ppm/4h (Inhalat.)	LD50 mg/kg (oral)	Test on
TOLUENE	108-88-3	20	8800	4300	RAT
PVC RESINES	-----	<15	N/AV	500	RAT
THERMAL STABILIZER	SECRET	0.3	----	----	
KETONE SOLVENT	78-93-3	65	3400 MG/K	8.0 ML	RAT

### SECTION III - PHYSICAL DATA

Physical state.....: LIQUID Freezing point.....: <0 ° C Boiling point.....: 79-110 ° C Density.....: 0.9 Vapor pressure (mm Hg).....: 93 Vapor density (Air=1).....: 1.0	Evapor. rate(nBuAcetate=1)...: 2.91 pH .....: N/AV Coef. of oil/water distrib...: N/AV Volatility %.....: 85.0 Solubility in water.....: INSOLUBLE Odour threshold ( ).....: N/AV
Appearance & odour: CLEAR LIQUID WITH ETHER ODOUR	

**MATERIAL SAFETY DATA SHEET**

**NEW**

DOMCO INDUSTRIES LTD. 1001, Yamaska east Street Farnham, Quebec Canada J2N 1J7	page : 2  Tel. : (514) 293-3173 Fax : (514) 293-8385
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DOMCO INDUSTRIAL VINYL SEAM SEALER

**SECTION IV - FIRE AND EXPLOSION HAZARDS**

Flash point (Method).....:-7 ° C (SETAFLASH )	LEL:1.8	UEL:7.1
Auto-ignition temperature...:480 ° C	Flammability class:3.2	
Extinguishing media: WATER FOG, FOAM, DRY CHEMICAL, CARBON DIOXIDE, HALON 1211		
Special fire fighting procedures: USE FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT EXPLOSION		
Fire & explosion hazards: THE MATERIAL IS A FLAMMABLE LIQUID. THE VAPOURS ARE HEAVIER THEN AIR AND MAY EXPLODE IF AN IGNITION SOURCE IS PREVENT		
Hazardous combustion products: CARBON MONOXIDE AND DIOXIDE, TRACES OF CHLORHYDRIQUE ACIDE		
Sensitivity to mechanical impacts: ONLY IF A SPARK IS PRODUCE		
Sensitivity to static discharge: THE MATERIAL AND THE VAPOURS MAY EXPLOSE IF A STATIC DISCHARGE IS PRODUCE		

**SECTION V - REACTIVITY DATA**

Stability: STABLE	Conditions: AVOID HIGH TEMPERATURES AND IGNITION SOURCES
Polymerisation: NO	Conditions:
Incompatibility: AMINES,ACIDS,HYDROXYLS OR OTHER ACTIVE HYDROGEN	
Conditions of reactivity: AT HIGH TEMPERATURE THE MATERIAL MAY IGNITE	
Hazardous decomposition products: CARBON MONOXYDE AND DIOXIDE,TRACES OF CHLORHYDRIC ACID AT HIGH TEMPERATURE OR WHEN THE MATERIAL IS BURNING	

# NEW

## MATERIAL SAFETY DATA SHEET

**DONCO INDUSTRIES LTD.**  
1001, Yamaska east Street  
Farnham, Quebec  
Canada  
J2N 1J7

page : 3

Tel. : (514) 293-3173  
Fax : (514) 293-8385

**DONCO INDUSTRIAL VINYL SEAM SEALER**

### SECTION VI - TOXICOLOGICAL PROPERTIES

Routes of entry:	Skin X	Inhalation X	Ingestion X	Eye contact
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**Effects of acute exposure to products:**

SKIN, EYE AND RESPIRATORY SYSTEM IRRITATION. INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION LIKE: HEADACHE, DIZZINESS, STRAGGERING GAIT, CONFUSION, INCONSCIOUSNESS OR COMA.

**Effects of chronic exposure to products:**

MAY CAUSE SKIN AND RESPIRATORY SYSTEM SENSITIZATION. MAY CAUSE LIVER OR KIDNEY DAMAGE AND MAY CAUSE PERMANENT CENTRAL NERVOUS SYSTEM DAMAGE

Exposure limits TLV : 200

Irritancy of product X	Sensitization to product X	Carcinogenicity	Mutagenicity	Teratogenicity
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**Reproductive toxicity:**

NO DATA AVAILABLE

### SECTION VII - PREVENTIVE MEASURES

**Respiratory protection:**

IN CLOSED AREA USE A SELF-CONTAINED BREATHING APPARATUS. FOR HANDLING USE AN ORGANIC VAPOURS MASK.

Ventilation: LOCALE EXHAUST

**Gloves:**

USE NEOPRENE, NITRILE OR RUBBER GLOVES

**Eye protection:**

USE CHEMICAL GOGGLES OR FACE SHIELD

**Other:**

USE DISPOSABLE OR IMPERVIOUS CLOTHING. WASH CONTAMINED CLOTHING BEFORE REUSE. EYE BATH NEAR THE HANDLING AREAS.

# NEW

## MATERIAL SAFETY DATA SHEET

<b>DOMCO INDUSTRIES LTD.</b> 1001, Yamaska east Street Farnham, Quebec Canada J2N 1J7	page : 4  Tel. : (514) 293-3173 Fax : (514) 293-8385
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DOMCO INDUSTRIAL VINYL SEAM SEALER

### SECTION VIII - ELIMINATION METHODS

<b>Spills, leaks or emissions:</b> ELIMINATE ALL SOURCES OF IGNITION. USE A PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING APPARATUS. CONTAIN AND REMOVE WITH INERT ABSORBENT MATERIAL AND NON SPARKING TOOLS.
<b>Waste disposal:</b> DISPOSABLE SHOULD BE DONE IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL ENVIRONNEMENTAL CONTROL REGULATION (AVOID TO SPILL THIS MATERIAL IN THE SEWER OR IN WATERCOURSE)
<b>Handling &amp; storage:</b> STORE IN A DRY PLACE IN WELL VENTILATED AREA WITH AUTOMATIC FIRE SPRINKLER. KEEP THE CONTAINER TIGHTLY CLOSE. GROOUNDING EQUIPMENT. KEEP AWAY FROM HEAT, OPEN FLAME AND ALL IGNITION SOURCES.

### SECTION IX - TRANSPORTATION OF DANGEROUS GOODS

<b>Proper shipping name:</b> ADHESIVE <b>P.I.N.....:</b> 1993 <b>Packing group:</b> II <b>Flammability class...:</b> 3.2
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### SECTION X - FIRST AIDS MEASURES

<b>Inhalation:</b> MOVE THE PERSON TO FRESH AIR. RESTORE BREATHING BY ARTIFICIAL RESUSCITATION, IF NECESSARY. CONSULT A PHYSICIAN.
<b>Skin:</b> REMOVE CONTAMINATED CLOTHING. WASH AFFECTED SKIN AREA WITH WATER AND SOAP. CONSULT A PHYSICIAN IF IRRITATION PERSIST. (WASH CONTAMINATED CLOTHING BEFORE REUSE)
<b>Eyes:</b> FLUSH EYES IMMEDIATLY WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN WHILE FLUSHING. CONSULT A PHYSICIAN FOR MEDICAL TREATMENT.
<b>Ingestion:</b> DRINK TWO GLASSES OF WATER OR MILK TO DILUTE. DO NOT INDDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATLY (QUEBEC:TEL. 1-800-463-5060)

<b>Prepared by:</b> CONSTANTIN NEDEA	<b>Preparation date:</b> 05/01/94
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N/A.: Not applicable

N/AV.: Not available



## Safety Data Sheet

### ECO PRIM GRIP

Safety Data Sheet dated: 5/29/2015 - version 1

Date of first edition: 5/29/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ECO PRIM GRIP

### Recommended use of the chemical and restrictions on use

Recommended use: Acrylic Latex Primer

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Carc. 1A May cause cancer if inhaled.

STOT RE 1 Causes damage to organs through prolonged or repeated exposure if inhaled.

### Label elements

#### Symbols:



Danger

Code	Description
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260.1	Do not breathe mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Substances

N.A.

## Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

### List of components

Quantity	Name	Ident. Numb.	Classification
20-30 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A
1-5 %	Titanium dioxide	CAS:13463-67-7	Carc. 2, H351

---

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.  
 Use localized ventilation system.  
 Don't use empty container before they have been cleaned.  
 Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
 Contaminated clothing should be changed before entering eating areas.  
 Do not eat or drink while working.  
 See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.  
 Incompatible materials:  
 None in particular.  
 Instructions as regards storage premises:  
 Adequately ventilated premises.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**List of components with OEL value**

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
Titanium dioxide	OSHA			15					A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation;
	ACGIH			10					

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:  
 Use close fitting safety goggles, don't use eye lens.  
 Protection for skin:  
 Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.  
 Protection for hands:  
 Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.  
 Respiratory protection:  
 Use adequate protective respiratory equipment.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Physical state: Liquid  
 Appearance and colour: light grey  
 Odour: like: Acrylate  
 Odour threshold: N.A.  
 pH: 8.50  
 Melting point / freezing point: N.A.  
 Initial boiling point and boiling range: N.A.  
 Flash point: >100 °C (212 °F) Notes: Method - Seta  
 Evaporation rate: N.A.  
 Upper/lower flammability or explosive limits: N.A.  
 Vapour density: N.A.  
 Vapour pressure: N.A.  
 Relative density: N.A.  
 Solubility in water: Insoluble  
 Solubility in oil: N.A.  
 Partition coefficient (n-octanol/water): N.A.  
 Auto-ignition temperature: N.A.  
 Decomposition temperature: N.A.  
 Viscosity: N.A.  
 Explosive properties: N.A.  
 Oxidizing properties: N.A.  
 Solid/gas flammability: N.A.

**Other information**

Substance Groups relevant properties N.A.

Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

Titanium dioxide                a) acute toxicity                      LD50 Oral Rat > 10000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand    Group 1  
Titanium dioxide                                      Group 2B

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand  
Titanium dioxide

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand  
Titanium dioxide

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
20-30 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

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**14. TRANSPORT INFORMATION****UN number**

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A  
DOT-Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A  
DOT-Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subrisk: N/A

IMDG-Special Provisions: N/A

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Silica Sand	is listed in TSCA	Section 8b
Titanium dioxide	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
Titanium dioxide	Listed as carcinogen

#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand  
Titanium dioxide

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand  
Titanium dioxide

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

## 16. OTHER INFORMATION

Code	Description
H350.A	May cause cancer if inhaled.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 5/29/2015 - version 1

Product code: 2939

### Additional classification information



HMIS Health: 1 = Slight  
HMIS Health - Is health hazard chronic?: Yes  
HMIS Flammability: 1 = Combustible if heated  
HMIS Reactivity: 0 = Minimal  
HMIS P.P.E.: Safety glasses, gloves  
NFPA Health: 1 = Slight  
NFPA Flammability: 1 = Combustible if heated  
NFPA Reactivity: 0 = Minimal  
NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product name</b>	<b>Ecore Egrip 3 Product Series</b>
<b>MSDS name</b>	ECORE EGRIP3 Product Series
<b>Product name(s) covered</b>	See Section 16 for Product Names Covered.
<b>CAS #</b>	Mixture
<b>Product use</b>	Carpet and Vinyl Adhesive
<b>Generic description</b>	Moisture Cure Polyurethane Based Formulation
<b>Manufacturer</b>	Bostik, Inc. 11320 Watertown Plank Rd Wauwatosa, WI 53226 USA
<b>24 hour emergency assistance</b>	Telephone: 1-800-227-0332 (Outside U.S.) 1-703-527-3887
<b>General assistance</b>	Telephone: 1-800-843-0844
<b>MSDS assistance</b>	Telephone: 1-800-843-0844

## 2. Hazards Identification

<b>Emergency overview</b>	Contact with this material can cause irritation to the skin, eyes and mucous membranes. Thermal decomposition/burning may produce toxic gases and fumes. Closed containers may rupture when exposed to high temperatures, or when the product has been contaminated with water. Avoid breathing hot mists and vapors. This product contains a respiratory and skin sensitizer. Causes respiratory tract irritation and may cause allergic respiratory reaction. May cause permanent respiratory damage. Product vapors are potentially irritating to skin. May cause allergic skin reaction and dermatitis.
<b>Potential health effects</b>	
<b>Eyes</b>	This product may cause irritation to the eyes. May cause temporary corneal injury.
<b>Skin</b>	This product may cause irritation to the skin. Isocyanates may react with skin protein and moisture to cause itching, reddening, swelling, scaling or blistering. Individuals previously sensitized to this material may experience these symptoms from exposure to very small amounts of liquid or vapor.
<b>Inhalation</b>	This product may cause irritation to the respiratory system. Single large doses, and/or repeated exposures, may lead to sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms), causing an individual to experience adverse effects at exposure levels well below exposure limits or guidelines. Symptoms may include chest tightness, wheezing, shortness of breath, coughing or asthmatic attack, and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening. Once sensitized, an individual may experience adverse symptoms upon exposure to dust, cold air or other irritants. Sensitization can last several months, years or be permanent in some cases.
<b>Ingestion</b>	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.
<b>Target organs</b>	The lungs and skin may be targeted and damaged by components of this product
<b>Signs and symptoms</b>	Signs and symptoms of overexposure to this product include headache, irritation of upper respiratory tract, asthmatic symptoms, chest tightness, breathing difficulty, coughing, sore throat, eye irritation, skin irritation and/or diarrhea.
<b>Hazard statements</b>	This product contains Methylene Diphenyl Isocyanate (MDI) which is a potential skin sensitizer and has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity. Risk to your health depends on duration and concentration of exposure.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Methylene Diphenyl Isocyanate (MDI)	101-68-8	0.1 - 1



## 4. First Aid Measures

### First aid procedures

- Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.
- Skin contact** For skin contact flush with large amounts of water while removing contaminated clothing. If skin irritation persists, call a physician. For severe exposure, immediately get under a safety shower and begin rinsing.
- Inhalation** If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist. Administer oxygen or artificial respiration as needed.
- Ingestion** If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting without medical advice. Never give anything by mouth to a victim who is unconscious or is having convulsions.

### Notes to physician

Provide general supportive measures and treat symptomatically. Contact Bostik to determine whether any additional information is available. Eyes: Stain for evidence of corneal injury. If cornea is burned, apply antibiotic/steroid preparation as needed. Skin: This product contains a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. Inhalation: This material contains a known pulmonary sensitizer. Any individual experiencing dermal or pulmonary sensitization should be removed from exposure to any diisocyanate. May aggravate existing heart conditions, particularly those with abnormal heart rhythms.

## 5. Fire Fighting Measures

- Hazardous combustion products** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide and isocyanate-containing compounds.
- Extinguishing media**
- Suitable extinguishing media** Dry chemical, foam, carbon dioxide, water fog.
- Fire fighting equipment/instructions** Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid contact with isocyanates. During a fire, isocyanate vapors and other irritating and highly toxic gases may be produced.
- Flash point** 500 °F (260 °C)

## 6. Accidental Release Measures

- Emergency action** Wear appropriate personal protective equipment. Do not allow product to enter sewer or waterways. Follow all Local, State, Federal and Provincial regulations for disposal. Regulations vary. Consult local authorities before disposal.
- Spill or leak procedure** Scrape up material and place in steel drums that are in good condition. Thoroughly clean area where spill occurred.
- Containment procedures** Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Liquid spills: Cover spills with absorbent clay or sawdust and collect material in open container and neutralize with a solution containing 2% liquid detergent, 3% concentrated ammonium hydroxide and 95% water. Wash spill area clean with the neutralization solution. Remove container to a safe place, cover loosely and allow to stand for 24 to 48 hours letting evolved carbon dioxide escape. Collect and contain for disposal.
- Pellet or chip spill: Collect and contain for salvage or disposal. Molten adhesive spill: Placard hot material, allow to cool and remove. If material is not cured once cooled, follow neutralization directions for liquids listed above. Collect and contain for disposal.
- Reporting** See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

## 7. Handling and Storage

<b>Handling</b>	Do not get this material in your eyes, on your skin, or on your clothing. Wash hands after handling and before eating. Do not breathe gas/fumes/vapor/spray. Wear respiratory protection if the material is heated, sprayed, used in a confined space or if exposure limit is exceeded. This product can produce asthmatic sensitization. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must avoid fumes from this product. Wear appropriate protective equipment to avoid contact with skin and eyes.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place. Keep away from heat. Keep away from direct sunlight.
<b>Empty container precaution</b>	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## 8. Exposure Controls / Personal Protection

**Engineering controls** Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

### Personal protective equipment

<b>Eye protection</b>	Wear safety glasses with side shields.
<b>Skin and body protection</b>	Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.
<b>Respiratory protection</b>	Avoid breathing vapor and/or mists. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.

**General** Eyewash fountains and emergency showers should be readily available.

### Additional exposure data

**US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m<sup>3</sup> & ppm**

Methylene Diphenyl Isocyanate (MDI) 101-68-8 METHYLENE BISPHENYL ISOCYANATE (MDI) 0.005 PPM

**US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)**

Methylene Diphenyl Isocyanate (MDI) 101-68-8 METHYLENE BISPHENYL ISOCYANATE 0.2 MGM<sup>3</sup> - 0.020 PPM 10-min

## 9. Physical & Chemical Properties

<b>Target solids</b>	100 %
<b>Density</b>	1.65 g/cc
<b>Odor</b>	Mild
<b>Color</b>	Gray
<b>Physical state</b>	Paste
<b>Freeze protect</b>	No
<b>VOC (Volatile Organic Compounds)</b>	0 %

## 10. Chemical Stability & Reactivity Information

<b>Hazardous reactions/decomposition products</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Additional decomposition products include oxides of nitrogen, amines, hydrogen cyanide and isocyanate-containing compounds.
<b>Hazardous polymerization</b>	Hazardous polymerization can occur with elevated temperatures or contact with water.
<b>Conditions to avoid</b>	Avoid Strong Acids. Avoid amines, strong bases, alcohols and metallic hydrides.
<b>Stability</b>	This product is stable under normal conditions but will react slightly with water to release some heat and carbon dioxide. The reaction is not violent. Carbon dioxide, carbon monoxide and in high temperature (800° F) low oxygen atmospheres such as in fire situations, hydrogen cyanide may be released.



## 11. Toxicological Information

<b>Carcinogenicity</b>	If this product contains any carcinogens, they will be noted below: This product contains Methylene Diphenyl Isocyanate (MDI). MDI is not listed by the NTP, IARC or regulated by OSHA as a carcinogen. However, it has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity.
<b>Local effects</b>	Single large does, and/or repeated exposures, may lead to sensitization to diisocyanates or polyisocyanates (asthma or asthma-like symptoms), causing an individual to experience adverse effects at exposure levels well below exposure limits or guidelines. Symptoms may include chest tightness, wheezing, shortness of breath, coughing or asthmatic attack, and may be delayed up to several hours. Extreme asthmatic reactions can be life threatening. Once sensitized, an individual may experience adverse symptoms upon exposure to dust, cold air or other irritants. Sensitization can last several months, years or be permanent in some cases. Chronic exposure may cause lung damage, including fibrosis and decreased lung function, which may be permanent.

## 12. Ecological Information

**Ecotoxicological information** No data available for this product.

## 13. Disposal Considerations

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

**Waste disposal** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## 14. Transport Information

### DOT

Not regulated as hazardous goods.

### IATA

Not regulated as hazardous goods.

### IMDG

Not regulated as hazardous goods.

## 15. Regulatory Information

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

**Federal regulations** All components are on the U.S. EPA TSCA Inventory List.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Methylene Diphenyl Isocyanate (MDI)	101-68-8	METHYLENEBIS(PHENYLISOCYANATE) (MDI) US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
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**State regulations** If this product contains any California Proposition 65 chemicals at reportable levels they will be listed below:  
Butyl Benzyl Phthalate (BBP)  
Furan  
Methanol

**Restriction of Hazardous Substances (RoHS)** The product(s) covered by this (M)SDS do not contain or are under the prescribed levels of prohibited substances listed under 2011/65/EU Hazardous Substances Restricted or Prohibited in Electrical Equipment, including lead (CAS # 7439-92-1), mercury (CAS # 7439-97-6), cadmium (CAS # 7440-43-9), hexavalent chromium (CAS # 7440-47-3), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

**International regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

**Substances of Very High Concern (SVHC)**

The product(s) covered by this (M)SDS include one or more of the substances above a concentration of 0.1% weight by weight (w/w) in the Candidate List of Substances of Very High Concern (SVHC) for authorization published or proposed by ECHA on the following dates:

- October 28, 2008
- August 31, 2009
- January 13, 2010
- March 8, 2010
- June 18, 2010
- October 14, 2010
- December 15, 2010
- June 20, 2011
- December 19, 2011
- February 17, 2012
- June 18, 2012
- December 19, 2012
- June 20, 2013
- December 16, 2013

**HMIS Ratings**

Health: 2\*  
Flammability: 1  
Physical hazard: 0  
Personal protection: X

**SARA 311/312 HAZARD CATEGORIES**

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**WHMIS status  
WHMIS labeling**

Controlled



**WHMIS classification**

D2A - Other Toxic Effects-VERY TOXIC  
D2B - Other Toxic Effects-TOXIC

**16. Other Information**

**Product name(s) covered**

A74410 - DCVP PL ECORE EGRIP3 24/10.1  
A74411 - DCVP PL ECORE EGRIP3 4G  
A74412 - DCVP PL ECORE EGRIP3 2G

**Disclaimer**

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

**Further information**

If there are any characters following an individual item number, they are just designations for the various types of packaging that are available for this product. For example, a product "G12345-XX" is item number "G12345" with a packaging designation of "XX". These characters do not indicate a different product nor a different regulatory, health, safety and/or environmental status. This document covers the item numbers listed above for all of their packaging types.

**Issue date**

03/31/2014

**Prepared by**

Bostik, Inc. Regulatory Affairs

**Supersedes**

10/09/2010

**This data sheet contains changes from the previous version in section(s):**

Regulatory Information: State regulations  
Regulatory Information: Default Statements  
Regulatory Information: Substances of Very High Concern (SVHC)  
Regulatory Information: Restriction of Hazardous Substances (RoHS)

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

Version 1.0	Revision Date: 8/23/2016	MSDS Number: EN-610 – Part A	Date of last issue: - Date of first issue: 03/04/2016
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#### SECTION 1. IDENTIFICATION

**Product name** : Excelsior EN-610 - Part A

**Product Description** : Epoxy Nose Filler Adhesive

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482

**Emergency Telephone Number** : CHEMTREC: 1 (800) 424-9300  
CANUTEC: (613) 996 - 6666

#### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : H315 – Skin Irrit. 2  
H319 – Eye Irrit. 2A  
H317 – Skin Sens. 1  
H411 – Aquatic Chronic 2

See section 16 for full text of H-Phrases

#### GHS Label Elements

**Hazard Pictograms** :



**Signal Word** : Danger

**Hazard Statements** : H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements** : P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

Version 1.0	Revision Date: 8/23/2016	MSDS Number: EN-610 – Part A	Date of last issue: - Date of first issue: 03/04/2016
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for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Other Hazards** : Exposure may aggravate those with pre-existing eye, skin or respiratory conditions.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Adhesive

#### Hazardous Components

CAS#	Chemical Name	Percentage
25068-38-6	Bisphenol A-epichlorohydrin polymer	10 - 30
15625-89-5	Trimethylolpropane triacrylate	10 – 30
14808-60-7	Quartz*	0.1 - 10

*\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.*

### SECTION 4. FIRST AID MEASURES

#### First Aid Measures

- General** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
- Inhalation** : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- Skin Contact** : In case of skin contact, remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
- Eye Contact** : In case of eye contact, rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and effects, Both Acute and Delayed

- General** : Causes severe skin burns and eye damage. May cause an allergic reaction in sensitive individuals.



## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

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- Inhalation** : May cause respiratory irritation.
- Skin Contact** : Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
- Eye Contact** : Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
- Ingestion** : Not available.
- Chronic Symptoms** : None expected.

#### **Indications of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical attention (show product label where possible).

### **SECTION 5. FIREFIGHTING MEASURES**

#### **Extinguishing Media**

- Suitable Extinguishing Media** : Use extinguishing media appropriate for area.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

#### **Specific Hazards Arising From Substance or Mixture**

- Fire Hazard** : Potentially violent decomposition can occur above 662° F (350 °C).
- Explosion Hazard** : Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.
- Reactivity** : Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

#### **Advice for Firefighting**

- Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes may be present.
- Specific Firefighting Instructions** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray or fog to cool unopened containers. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire



## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

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extinguishing water must be disposed of in accordance with local regulations.

**Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products** : Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

**Other Information** : Refer to Section 9 for flammability properties.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment & Emergency Procedures** : Avoid all contact with skin, eyes or clothing. Do not breathe vapor, mist or spray. Use only outdoors or in a well-ventilated area.

**Instructions for Non-Emergency Personnel** : Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

**Instructions for Emergency Personnel** : Equip cleanup crew with proper protection. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area and call for assistance of trained personnel as soon as conditions permit.

**Environmental Precautions** : Do not allow product to reach sewage systems or water course. Inform respective authorities in case of seepage into sewage or water course.

**Methods & Materials for Containment and Cleaning Up** : Contain any spills with dikes or inert absorbent material (e.g. sand, diatomite, universal binder) to prevent migration into sewage systems and water course. Do not absorb with combustible materials, such as saw dust or cellulosic material. Clean up spills immediately and dispose of contaminated material according to section 13. Clean contaminated floors and objects thoroughly while observing environmental regulations. Inform respective authorities in case of seepage into sewage or water course. Use only non-sparking tools.

**Reference to Other Sections** : See Section 8 for information on personal protection. See section 13 for disposal information.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed** : Hazardous polymerization may occur if exposed to high temperature. Product to be handled in a closed system and under strictly controlled conditions.

# SAFETY DATA SHEET



## Excelsior EN-610 – Part A Excelsior Epoxy Nose Filler Adhesive

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**Hygiene Measures** : Handle in accordance with industrial hygiene best practices and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures** : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Comply with applicable regulations.

**Storage Conditions** : Store in a dry, cool and well-ventilated area. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials** : Strong acids, strong bases, strong oxidizers. Nitrogen containing compounds, ammonium compounds.

**Specific End Use(s)** : No use specified.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Components with Workplace Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<b>Quartz (14808-60-7)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>USA ACGIH</b>	ACGIH chemical category	A2 - Suspected Human Carcinogen
<b>USA OSHA</b>	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

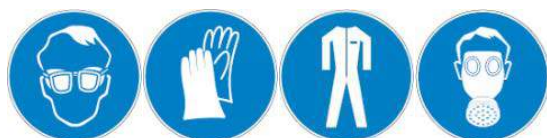
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Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

- Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.
- Environmental Exposure Controls** : Do not allow product to be released into the environment.
- Consumer Exposure Controls** : Do not eat, drink or smoke during use.

### Personal Protective Equipment



- General:** : Wear protective goggles, gloves and protective clothing. In case of insufficient ventilation, wear respiratory protection.
- Material for Protective Clothing** : Chemically resistant materials and fabrics.
- Respiratory Protection** : If exposure limits may be exceeded or irritation is experienced, use a NIOSH-approved respirator or self-contained breathing apparatus.
- Hand Protection** : Wear chemically resistant protective gloves.
- Eye Protection** : Chemical goggles or safety glasses.
- Skin & Body Protection** : Wear suitable protective clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

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<b>Appearance</b>	: Paste – Viscous Liquid
<b>Color</b>	: Beige
<b>Odor</b>	: No data available
<b>Odor Threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Evaporation Point</b>	: No data available
<b>Melting Point / Range</b>	: No data available
<b>Freezing Point</b>	: 32° F (0° C)
<b>Boiling Point / Range</b>	: >392° F (200° C)
<b>Flash Point</b>	: >200° F (93° C) Setaflash Method
<b>Flammability</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Specific Gravity</b>	: 1.4
<b>Water Solubility</b>	: No data available
<b>Partition Coefficient (Noctanol/Water)</b>	: No data available
<b>Viscosity</b>	: ~72,000 CPS
<b>Explosion Data – Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge
<b>VOC Content</b>	: < 12 g/l (<0.1 lbs/gal)

#### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Hazardous reactions are unlikely to occur under normal circumstances.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7)

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

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<b>Possibility of Hazardous Reactions</b>	: Hazardous polymerization can occur in contact with certain incompatible materials.
<b>Conditions to Avoid</b>	: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
<b>Incompatible Materials</b>	: Strong acids. Strong bases. Strong oxidizers. Amines. Fluorine. Ammonium salts.
<b>Hazardous Decomposition Products</b>	: Under fire conditions this material may produce hazardous carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicological Effects (Product)

<b>Acute Toxicity</b>	: Not available
<b>Skin Corrosion / Irritation</b>	: Causes skin irritation.
<b>Serious Eye Damage / Irritation</b>	: Causes serious eye irritation.
<b>Respiratory or Skin Sensitization:</b>	: May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Teratogenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified
<b>Reproductive Toxicity</b>	: Suspected of damaging fertility or the unborn child (oral).
<b>Aspiration Hazard</b>	: Not classified
<b>Specific Target Organ Toxicity (Single or Repeated Exposure)</b>	: Not classified
<b>Symptoms / Injuries After Inhalation</b>	: May cause respiratory irritation
<b>Symptoms / Injuries After Skin Contact</b>	: Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.
<b>Symptoms / Injuries After Skin Contact</b>	: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

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**Symptoms / Injuries After Skin Contact** : Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms** : Suspected of damaging fertility or the unborn child (oral).

#### Toxicological Effects (Ingredients)

**Acute toxicity** :

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg

<b>Trimethylolpropane triacrylate (15625-89-5)</b>	
LD50 Dermal Rabbit	5000 mg/kg

<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

<b>Quartz (14808-60-7)</b>	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General** : Harmful to aquatic life with long lasting effects.

**Ecotoxicity** :

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

**Persistence & Degradability** : Not available

**Bioaccumulative Potential** : Not available

**Mobility in Soil** : Not available

**Other Adverse Effects** : None known

## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Sewage Disposal Recommendations** : This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Do not empty into drains; dispose of this material and its container in a safe way.
- Waste Disposal Recommendations** : Dispose of waste material in accordance with international, national, federal, state/provincial and local regulations.
- Ecology – Waste Materials** : Avoid release to the environment.

## SECTION 14. TRANSPORT INFORMATION

**In Accordance with DOT** : Not regulated.

### In Accordance with IMDG

- Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin)
- Hazard Class** : 9
- Identification Number** : UN3082
- Label Codes** : 9
- Packing Group** : III
- EMS-No. (Fire)** : F-A
- EMS-No. (Spillage)** : S-F
- Marine Pollutant** : Marine Pollutant



SAFETY DATA SHEET



Excelsior EN-610 – Part A  
Excelsior Epoxy Nose Filler Adhesive

Version 1.0      Revision Date: 8/23/2016      MSDS Number: EN-610 – Part A      Date of last issue: -  
Date of first issue: 03/04/2016

**In Accordance with IATA**

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin)  
**Packing Group** : III  
**Hazard Class**  
**Identification Number** : UN3082  
**Label Codes** : 9  
**ERG Code (IATA)** : 9L



**In Accordance with TDG** : Not regulated.

**SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations**

**SARA 311/312** : Immediate (acute) health hazard  
**Hazard Classes (Product)** : Delayed (chronic) health hazard

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Quartz (14808-60-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Trimethylolpropane triacrylate (15625-89-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**US State Regulations**

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	



## Excelsior EN-610 – Part A

### Excelsior Epoxy Nose Filler Adhesive

Version 1.0      Revision Date: 8/23/2016      MSDS Number: EN-610 – Part A      Date of last issue: -  
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#### Canadian Regulations

##### WHMIS Classification



: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects  
 Class D Division 2 Subdivision B - Toxic material causing other toxic effects  
 Class E - Corrosive Material

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Trimethylolpropane triacrylate (15625-89-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.

#### **SECTION 16. OTHER INFORMATION**

**Revision Date** : 8.23.2016

**Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

##### GHS Full Text Phrases :

GHS Code	GHS Phrase
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## Excelsior EN-610 – Part B

### Excelsior Epoxy Nose Filler Adhesive

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	8/22/2016	EN-610 – Part B	Date of first issue: 03/04/2016

#### SECTION 1. IDENTIFICATION

**Product name** : Excelsior EN-610 - Part B

**Product Description** : Epoxy Nose Filler Adhesive

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482

**Emergency Telephone Number** : CHEMTREC: 1 (800) 424-9300  
CANUTEC: (613) 996 - 6666

#### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : H302 – Acute Tox. 4 (Oral)  
H314 – Skin Corr. 1A  
H318 – Eye Dam. 1  
H317 – Skin Sens. 1  
H361 – Repr. 2  
H373 – STOT RE 2  
H400 – Aquatic Acute 1  
H410 – Aquatic Chronic 1

See section 16 for full text of H-Phrases

#### GHS Label Elements

**Hazard Pictograms** :



**Signal Word** : Danger

**Hazard Statements** : H302 – Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H361 – Suspected of damaging fertility or the unborn child.  
H373 – May cause damage to organs through prolonged or repeated exposure.  
H400 – Very toxic to aquatic life.

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H410 – Very toxic to aquatic life with long lasting effects.

**Precautionary Statements** :

- P260 - Do not breathe vapors, mist, or spray.
- P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
- P270 – Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves, protective clothing, and eye protection.
- P301+P330+P331+P312 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.
- P303+P361+P353 - IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Other Hazards** : May be corrosive to respiratory tract.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Adhesive

#### Hazardous Components

CAS#	Chemical Name	Percentage
84852-15-3	Nonyl Phenol	10 - 30
1761-71-3	Cyclohexanamine, 4,4'-methylenebis-	3 - 7
112-57-2	Tetraethylenepentamine	1 – 5
14808-60-7	Quartz*	0.1 – 1.0

*\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.*

### SECTION 4. FIRST AID MEASURES

#### First Aid Measures

**General** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation** : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if

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breathing difficulty persists.

- Skin Contact** : In case of skin contact, immediately flush skin with plenty of water for at least 60 minutes. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention.
- Eye Contact** : In case of eye contact, rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### **Most Important Symptoms and effects, Both Acute and Delayed**

- General** : Causes severe skin burns and eye damage. May be harmful if swallowed and enters airways. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure
- Inhalation** : May cause respiratory irritation.
- Skin Contact** : Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.
- Eye Contact** : Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.
- Ingestion** : May be fatal if swallowed and enters airways.
- Chronic Symptoms** : Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

#### **Indications of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical attention (show product label where possible).

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## SECTION 5. FIREFIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media** : Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

### Specific Hazards Arising From Substance or Mixture

- Fire Hazard** : Potentially violent decomposition can occur above 662° F (350 °C).
- Explosion Hazard** : Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.
- Reactivity** : Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

### Advice for Firefighting

- Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes may be present.
- Specific Firefighting Instructions** : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Hazardous Combustion Products** : Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.
- Other Information** : Refer to Section 9 for flammability properties.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment & Emergency Procedures** : Avoid all contact with skin, eyes or clothing. Do not breathe vapor, mist or spray. Use only outdoors or in a well-ventilated area. Do not allow product to spread into the environment.

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- |  |   |
|--|---|
| <b>Instructions for Non-Emergency Personnel</b>                | : Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.  |
| <b>Instructions for Emergency Personnel</b>                    | : Equip cleanup crew with proper protection. Stop leaks if safe to do so. Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area and call for assistance of trained personnel as soon as conditions permit.   |
| <b>Environmental Precautions</b>                               | : Do not allow product to reach sewage systems or water course. Inform respective authorities in case of seepage into sewage or water course.   |
| <b>Methods &amp; Materials for Containment and Cleaning Up</b> | : Contain any spills with dikes or inert absorbent material (e.g. sand, diatomite, universal binder, etc.) to prevent migration into sewage systems and water course. Do not absorb with combustible material such as saw dust or cellulosic material. Use only non-sparking tools. Transfer spilled material to a suitable container for disposal. Clean up spills immediately and dispose of contaminated material according to section 13. Clean contaminated floors and objects thoroughly while observing environmental regulations. Inform respective authorities in case of seepage into sewage or water course. |
| <b>Reference to Other Sections</b>                             | : See Section 8 for information on personal protection. See section 13 for disposal information.  |

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

- |  |  |
|--|--|
| <b>Additional Hazards When Processed</b> | : The substance will polymerize due to heat, contact with incompatible materials and under the influence of light. Heating may cause violent combustion or explosion, producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions. |
| <b>Hygiene Measures</b>                  | : Handle in accordance with industrial hygiene best practices and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.   |

### Conditions for Safe Storage, Including Any Incompatibilities

- |                           |  |
|---------------------------|--|
| <b>Technical Measures</b> | : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Comply with applicable regulations. |
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- Storage Conditions** : Store in a dry, cool and well-ventilated area. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible Materials** : Strong acids, strong bases, strong oxidizers. Nitrogen containing compounds, ammonium salts.
- Specific End Use(s)** : No use specified.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with Workplace Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

- Engineering Controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be



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released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

**Environmental Exposure Controls** : Do not allow product to be released into the environment.

**Consumer Exposure Controls** : Do not eat, drink or smoke during use.

**Personal Protective Equipment**



**General:** : Wear protective goggles, gloves and protective clothing. In case of insufficient ventilation, wear respiratory protection.

**Materials for Protective Clothing** : Chemically resistant materials and fabrics.

**Respiratory Protection** : If exposure limits may be exceeded or irritation is experienced, use a NIOSH-approved respirator or self-contained breathing apparatus.

**Hand Protection** : Wear chemically resistant protective gloves.

**Eye Protection** : Chemical goggles or safety glasses.

**Skin & Body Protection** : Wear suitable chemically resistant protective clothing.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	: Thick Paste
<b>Physical State</b>	: Liquid – Paste
<b>Color</b>	: Dark Grey
<b>Odor</b>	: No data available
<b>Odor Threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Evaporation Point</b>	: No data available
<b>Melting Point / Range</b>	: No data available



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<b>Freezing Point</b>	: 32° F (0° C)
<b>Boiling Point / Range</b>	: >390° F (>198.89° C)
<b>Flash Point</b>	: >200° F (93.33° C)
<b>Flammability</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Specific Gravity</b>	: 1.3
<b>Water Solubility</b>	: No data available
<b>Partition Coefficient (Noctanol/Water)</b>	: No data available
<b>Viscosity</b>	: ~56,000 CPS
<b>Explosion Data – Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge
<b>VOC Content</b>	: <12 g/l (<0.1 lbs/gal)

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7)
<b>Possibility of Hazardous Reactions</b>	: Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.
<b>Incompatible Materials</b>	: Strong acids. Strong bases. Strong oxidizers. Amines. Fluorine. Ammonium salts.
<b>Hazardous Decomposition Products</b>	: Under fire conditions this material may produce hazardous carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), nitrogen oxides, various low molecular weight hydrocarbons, and smoke.

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**SECTION 11. TOXICOLOGICAL INFORMATION**


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**Toxicological Effects (Product)**

**Acute Oral toxicity** : Harmful if swallowed.

<b>ATE US (oral)</b>	1,921.59 mg/kg body weight
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**Skin Corrosion / Irritation** : Causes severe skin burns and eye damage.

**Serious Eye Damage / Irritation** : Causes serious eye damage.

**Respiratory or Skin Sensitization:** : May cause an allergic skin reaction.

**Germ Cell Mutagenicity** : Not classified

**Teratogenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive Toxicity** : Suspected of damaging fertility or the unborn child.

**Aspiration Hazard** : Not classified

**Specific Target Organ Toxicity (Single Exposure)** : Not classified

**Specific Target Organ Toxicity (Repeated Exposure)** : May cause damage to organs through prolonged or repeated exposure.

**Symptoms / Injuries After Inhalation** : May cause respiratory irritation.

**Symptoms / Injuries After Skin Contact** : Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms / Injuries After Eye Contact** : Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms / Injuries After Ingestion** : May be fatal if swallowed and enters airways.

**Chronic Symptoms** : Suspected of damaging fertility or the unborn child.

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#### Toxicological Effects (Ingredients)

##### Acute toxicity :

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>	
LD50 Oral Rat	1000 mg/kg
<b>Tetraethylenepentamine (112-57-2)</b>	
LD50 Oral Rat	2100 mg/kg
LD50 Dermal Rabbit	660 µl/kg
<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Quartz (14808-60-7)</b>	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

## SECTION 12. ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General** : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Ecotoxicity** :

<b>Tetraethylenepentamine (112-57-2)</b>	
LC50 Fish 1	420 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
EC50 Daphnia 1	24.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**Persistence & Degradability** : Not available

**Bioaccumulative Potential** :

<b>Tetraethylenepentamine (112-57-2)</b>	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	< 1
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
BCF Fish 1	271

**Mobility in Soil** : Not available

**Other Adverse Effects** : None known

## Excelsior EN-610 – Part B

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Sewage Disposal Recommendations** : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.
- Waste Disposal Recommendations** : Dispose of waste material in accordance with international, national, federal, state/provincial and local regulations.
- Ecology – Waste Materials** : Avoid release to the environment.

## SECTION 14. TRANSPORT INFORMATION

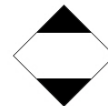
### In Accordance with DOT

- Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)
- Hazard Class** : 8
- Identification Number** : UN1760
- Label Codes** : 8
- Packing Group** : II
- ERG Number** : 171



### **DOT Exemptions**

- Exemption - Limited Quantities** : Packages having a volumetric capacity of no more than 1.0L/0.3 gallons and meeting the requirements of 49 CFR 173.154(b) are exempt from many of the DOT requirements for this classification. Each package must display the following limited quantity label:



SAFETY DATA SHEET



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**In Accordance with IMDG**

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)

**Hazard Class** : 8

**Identification Number** : UN1760

**Label Codes** : 8

**Packing Group** : II

**EMS-No. (Fire)** : F-A

**EMS-No. (Spillage)** : S-B

**Marine Pollutant** : Marine Pollutant



**In Accordance with IATA**

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)

**Packing Group** : II

**Hazard Class** : 8

**Identification Number** : UN1760

**Label Codes** : 8

**ERG Code (IATA)** : 8L



**In Accordance with TDG**

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)

**Packing Group** : II

**Hazard Class** : 8

**Identification Number** : UN1760

**Label Codes** : 8

**Marine Pollutant** : Marine Pollutant

**Exemption - Limited Quantities** : Packages having a volumetric capacity of no more than 1.0L and meeting the requirements of Transportation of Dangerous Goods Part 1 Section 1.17 Limited Quantities are exempt from

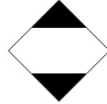


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many of the TDG requirements for this classification. Each package must display the following limited quantity label.



## SECTION 15. REGULATORY INFORMATION

### US Federal Regulations

**SARA 311/312** : Immediate (acute) health hazard  
**Hazard Classes (Product)** : Delayed (chronic) health hazard

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
<b>Tetraethylenepentamine (112-57-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Tetraethylenepentamine (112-57-2)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulation

#### **WHMIS Classification**



: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects  
 Class D Division 2 Subdivision B - Toxic material causing other toxic effects  
 Class E - Corrosive Material

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<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>WHMIS Classification</b>	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>WHMIS Classification</b>	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
<b>WHMIS Classification</b>	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Tetraethylenepentamine (112-57-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
<b>WHMIS Classification</b>	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.

## SECTION 16. OTHER INFORMATION

**Revision Date** : 8.22.2016

**Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases** :

GHS Code	GHS Phrase
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H340	May cause genetic defects
H410	Toxic to aquatic life with long lasting effects

# SAFETY DATA SHEET



## **Excelsior EN-610 – Part B** Excelsior Epoxy Nose Filler Adhesive

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	8/22/2016	EN-610 – Part B	Date of first issue: 03/04/2016

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

Version	Revision Date:	MSDS Number:	Date of first issue:
1.0	2/13/2017	AW-510	03/04/2016

#### SECTION 1. IDENTIFICATION

**Product name** : Excelsior AW-510

**Product Description** : Acrylic Wet Set Adhesive

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482

**Emergency Telephone Number** : CHEMTREC: 1 (800) 424-9300  
CANUTEC: (613) 996 - 6666

#### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : Not classified

**GHS Label Element** : Not a dangerous substance

**Other Hazards** : Exposure may aggravate those with pre-existing eye, skin or respiratory conditions.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Adhesive

##### Hazardous Components

CAS#	Chemical Name	Percentage
14808-60-7	Quartz*	0.1 - 1%

*\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.*

#### SECTION 4. FIRST AID MEASURES

##### First Aid Measures

**General** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

Version 1.0	Revision Date: 2/13/2017	MSDS Number: AW-510	Date of first issue: 03/04/2016
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- Inhalation** : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- Skin Contact** : In case of skin contact, flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse.
- Eye Contact** : In case of eye contact, rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
- Ingestion** : If swallowed, Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### **Most Important Symptoms and effects, Both Acute and Delayed**

- General** : None expected under normal conditions of use.
- Inhalation** : May cause respiratory irritation.
- Skin Contact** : May cause mild skin irritation.
- Eye Contact** : May cause minor eye irritation.
- Ingestion** : Ingestion is likely to be harmful or have adverse effects.
- Chronic Symptoms** : None expected under normal conditions of use.

#### **Indications of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical attention (show product label where possible).

## **SECTION 5. FIREFIGHTING MEASURES**

### **Extinguishing Media**

- Suitable Extinguishing Media** : Use extinguishing media appropriate for area.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

### **Specific Hazards Arising From Substance or Mixture**

- Fire Hazard** : Product is not flammable.

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

Version 1.0	Revision Date: 2/13/2017	MSDS Number: AW-510	Date of first issue: 03/04/2016
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- Explosion Hazard** : Product is not explosive.
- Reactivity** : Hazardous reactions are unlikely to occur under normal circumstances.

#### **Advice for Firefighting**

- Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
- Specific Firefighting Instructions** : Use water spray or fog for cooling exposed containers. Do not allow run-off from firefighting to enter drains or water courses. Do not breathe fumes from fires or vapors from decomposition.
- Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Hazardous Combustion Products** : Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.
- Other Information** : Refer to Section 9 for flammability properties.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions, Protective Equipment & Emergency Procedures** : Avoid all contact with skin, eyes or clothing. Do not breathe vapor, mist or spray.
- Instructions for Non-Emergency Personnel** : Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.
- Instructions for Emergency Personnel** : Equip cleanup crew with proper protection. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area and call for assistance of trained personnel as soon as conditions permit.
- Environmental Precautions** : Do not allow product to reach sewage systems or water course. Inform respective authorities in case of seepage into sewage or water course.
- Methods & Materials for Containment and Cleaning Up** : Contain any spills with dikes or inert absorbent material (e.g. sand, diatomite, acid binder, universal binder, sawdust) to prevent migration into sewage systems and water course. Clean up spills immediately and dispose contaminated material according to section 13. Clean contaminated floors and objects thoroughly while observing environmental regulations. Inform respective authorities in case of seepage into sewage or water course.

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

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**Reference to Other Sections** : See Section 8 for information on personal protection.  
See section 13 for disposal information.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Hygiene Measures** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures** : Comply with applicable regulations.

**Storage Conditions** : Store in a dry, cool and well-ventilated area. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials** : Strong acids, strong bases, strong oxidizers.

**Specific End Use(s)** : No use specified.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Components with Workplace Control Parameters**

Contains no substances with occupational exposure limit values.

### Exposure Controls

**Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Environmental Exposure Controls** : Do not allow product to be released into the environment.

**Consumer Exposure Controls** : Do not eat, drink or smoke during use.

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

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#### Personal Protective Equipment

- Respiratory Protection** : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Hand Protection** : Wear chemically resistant protective gloves.
- Eye Protection** : Chemical goggles or safety glasses.
- Skin & Body Protection** : Wear suitable protective clothing.
- Protective Measures** : The usual precautionary measures for handling chemicals should be followed.
- Hygiene Measures** : The usual precautionary measures for handling chemicals should be followed.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : Paste
- Color** : Off-white
- Odor** : Mild Odor
- pH** : 9.0 – 10.0
- Melting Point / Range** : No data available
- Freezing Point** : ~32° F (0° C)
- Boiling Point / Range** : 212 °F (100° C)
- Flash Point** : None
- Flammability** : No data available
- Auto-Ignition Temperature** : No data available
- Decomposition Temperature** : No data available
- Upper & Lower Flammability Limit** : None
- Specific Gravity** : 1.1648
- Water Solubility** : No data available
- Solubility** : No data available

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

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<b>Partition Coefficient (Noctanol/Water)</b>	: No data available
<b>Viscosity</b>	: No data available
<b>Explosion Data – Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge
<b>VOC Content</b>	: < 1g/l

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under normal conditions.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7)
<b>Possibility of Hazardous Reactions</b>	: None known.
<b>Conditions to Avoid</b>	: Direct sunlight. Extremely high or low temperatures. Incompatible materials.
<b>Incompatible Materials</b>	: Strong acids, strong bases, strong oxidizers.
<b>Hazardous Decomposition Products</b>	: Carbon oxides (CO, CO <sub>2</sub> ).

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicological Effects (Product)

<b>Acute Toxicity</b>	: Not classified / available
<b>Skin Corrosion / Irritation</b>	: Not classified, pH 7.5-10
<b>Serious Eye Damage / Irritation</b>	: Not classified, pH 7.5-10
<b>Respiratory or Skin Sensitization:</b>	: Not classified
<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Teratogenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

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<b>Reproductive Toxicity</b>	: Not classified
<b>Aspiration Hazard</b>	: Not classified
<b>Specific Target Organ Toxicity (Single or Repeated Exposure)</b>	: Not classified
<b>Symptoms / Injuries After Inhalation</b>	: May cause respiratory irritation
<b>Symptoms / Injuries After Skin Contact</b>	: May cause mild skin irritation
<b>Symptoms / Injuries After Eye Contact</b>	: May cause minor eye irritation.
<b>Symptoms / Injuries After Ingestion</b>	: Ingestion is likely to be harmful or have adverse effects.
<b>Chronic Symptoms</b>	: None expected under normal conditions

#### Carcinogenic Categories

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity (Product)

<b>Toxicity</b>	: No additional information available
<b>Persistence &amp; Degradability</b>	: Not available
<b>Bioaccumulative Potential</b>	: Not available
<b>Mobility in Soil</b>	: Not available

## Excelsior AW-510

### Excelsior Acrylic Wet Set Adhesive

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**Other Adverse Effects** : None known

**Other Information** : Avoid release into the environment

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

**Waste from Residues** : Dispose of in accordance with federal, state/province and local regulations.

**Contaminated Packaging** : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

### International Regulation

**DOT** : Not regulated as a dangerous good

**IMDG-Code** : Not regulated as a dangerous good

**IATA-DGR** : Not regulated as a dangerous good

**UNRTDG** : Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

**SARA 355** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 355.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**TSCA (Toxic Substance Control Act)** : All ingredients are not listed or are not required to be listed on the TSCA inventory.

**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Chemicals Known to Cause Cancer** : None of the ingredients listed.



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### Excelsior Acrylic Wet Set Adhesive

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**Chemicals known to cause reproductive toxicity for females** : None of the ingredients listed.

**Chemicals known to cause reproductive toxicity for males** : None of the ingredients listed.

**GHS Label Elements** : Void.

**Signal Pictograms** : Void.

**Signal Word** : Void.

**Hazard Statements** : Void.

**VOC** : <1 g/l – 0.01 lb/gal

**Chemical Safety Assessment** : A Chemical Safety Assessment has not been carried out.

**WHMIS Classification** : Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.

## SECTION 16. OTHER INFORMATION

**Revision Date** : 2.13.2017

**Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

# SAFETY DATA SHEET

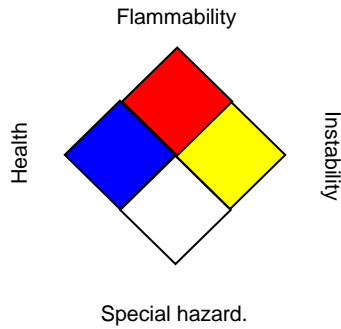


## Excelsior AW-510 Excelsior Acrylic Wet Set Adhesive

Version 1.0      Revision Date: 2/13/2017      MSDS Number: AW-510      Date of first issue: 03/04/2016

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### NFPA:



### HMIS III:

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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# SAFETY DATA SHEET



## Excelsior CM-910 Excelsior Cleaner / Maintainer

Version 1.0      Revision Date: 12/8/2016      MSDS Number: CM-910      Date of first issue: 03/04/2016


### SECTION 1. IDENTIFICATION

**Product Name** : Excelsior Cleaner / Maintainer  
**Product Code** : CM-910  
**Supplier** : RHC  
**Address** : 1602 N. Union St.  
Fostoria, OH 44830  
**Telephone** : (844) 393 - 4044  
**Fax** : (419) 436 - 2482  
**Emergency Telephone Number** : (CHEMTREC): (800) 424-9300  
(CHEMTREC International): (703) 527-3887  
Industrial Health/Spill Emergency: (706) 277-130

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : H320 – Eye Dam. 2B  
See section 16 for full text of H-Phrases

#### GHS Label Elements

**Hazard Pictograms** : 

**Signal Word** : Warning

**Hazard Statement** : H320 – Causes eye irritation.

**Precautionary Statement** : **Prevention:**  
P264 - Wash skin thoroughly after handling.  
**Response:**  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 – If eye/irritation persists: Get medical advice/attention.

**Other Hazards** : None listed



## Excelsior CM-910

### Excelsior Cleaner / Maintainer

Version 1.0      Revision Date: 12/8/2016      MSDS Number: CM-910      Date of first issue: 03/04/2016

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Cleaner

#### Hazardous Components

CAS#	Chemical Name	Percentage
Proprietary	Surfactant Blend	5 – 10
Proprietary	Acrylic Copolymer	5 - 10
64-04-02	Sodium Citrate	1 - 5

### SECTION 4. FIRST AID MEASURES

**Inhalation** : If inhaled, move to fresh air in case of accidental inhalation of vapors. Provide oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

**Skin Contact** : In case of skin contact, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Eye Contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.

#### Most Important Symptoms and effects, Both Acute and Delayed

**Eye Contact** : Causes eye irritation.

### SECTION 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media** : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

**Specific Hazards During Firefighting** : Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.

**Specific Extinguishing Methods** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## Excelsior CM-910

### Excelsior Cleaner / Maintainer

Version 1.0	Revision Date: 12/8/2016	MSDS Number: CM-910	Date of first issue: 03/04/2016
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**Special Protective Equipment for Firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures** : Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.

**Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment.

**Methods and Materials for Containment and Cleaning Up** : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations.

## SECTION 7. HANDLING AND STORAGE

**Advice on Protection Against Fire and Explosion** : The product is not flammable. No special protective measures against fire required.

**Advice on Safe Handling** : Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.

**Conditions for Safe Storage** : No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Materials to Avoid** : Do not freeze. Keep away from food and drink. Keep away from tobacco products.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**  
 Contains no substances with occupational exposure limit values.

### Exposure Controls

**Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. Ensure all national/local regulations are observed.

# SAFETY DATA SHEET



## Excelsior CM-910 Excelsior Cleaner / Maintainer

Version 1.0      Revision Date: 12/8/2016      MSDS Number: CM-910      Date of first issue: 03/04/2016

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**Environmental Exposure Controls** : Do not allow product to be released into the environment.

**Consumer Exposure Controls** : Do not eat, drink or smoke during use.

### Personal Protective Equipment

**Respiratory Protection** : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Hand Protection** : Wear impervious gloves.

**Eye Protection** : Safety glasses with side-shields. Tightly fitting safety goggles. Face-shield

**Skin & Body Protection** : Wear suitable protective, chemically resistant clothing and footwear. Rinse skin after contact. Change contaminated clothing before reuse.

**Protective Measures** : The usual precautionary measures for handling chemicals. Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures** : Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** : Liquid

**Color** : Clear

**Odor** : Characteristic

**pH** : 9

**Melting Point / Range** : No data available

**Freezing Point** : ~32° F (0° C)

**Boiling Point / Range** : 212 °F (100° C)

# SAFETY DATA SHEET



## Excelsior CM-910 Excelsior Cleaner / Maintainer

Version	Revision Date:	MSDS Number:	Date of first issue:
1.0	12/8/2016	CM-910	03/04/2016

**Flash Point** : >212 °F (>100° C)

**Flammability** : No data available

**Auto-Ignition Temperature** : No data available

**Decomposition Temperature** : No data available

**Upper & Lower Flammability Limit** : None

**Density** : 1.007

**Water Solubility** : Completely Soluble

**Solvent Solubility** : No data available

**VOC Content** : 1.5%

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Stable under normal conditions.

**Chemical Stability** : Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions** : None known.

**Conditions to Avoid** : Protect from freezing.

**Incompatible Materials** : Strong acids, strong bases, strong oxidizers.

**Hazardous Decomposition Products** : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Toxicological Effects (Product)

**Acute Toxicity** : LD50/oral/rat - >5,000 mg/kg

**Skin Corrosion / Irritation** : Not classified

**Serious Eye Damage / Irritation** : Causes eye irritation.

**Respiratory or Skin Sensitization** : Not classified

# SAFETY DATA SHEET



## Excelsior CM-910 Excelsior Cleaner / Maintainer

Version 1.0	Revision Date: 12/8/2016	MSDS Number: CM-910	Date of first issue: 03/04/2016
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<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Teratogenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified
<b>Reproductive Toxicity</b>	: Not classified
<b>Aspiration Hazard</b>	: Not classified
<b>Specific Target Organ Toxicity (Single or Repeated Exposure)</b>	: Not classified

### Carcinogenic Categories

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

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## SECTION 12. ECOLOGICAL INFORMATION

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### Ecotoxicity (Product)

<b>Toxicity</b>	: No additional information available
<b>Persistence &amp; Degradability</b>	: Not available
<b>Bioaccumulative Potential</b>	: Not available
<b>Mobility in Soil</b>	: Not available
<b>Other Adverse Effects</b>	: None known

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## SECTION 13. DISPOSAL CONSIDERATIONS

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### Disposal Methods



# SAFETY DATA SHEET



## Excelsior CM-910 Excelsior Cleaner / Maintainer

Version 1.0      Revision Date: 12/8/2016      MSDS Number: CM-910      Date of first issue: 03/04/2016

- Waste from Residues** : Do not dispose of waste into sewer. Dispose of in accordance with federal, state/province and local regulations.
- Contaminated Packaging** : Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

- IMDG-Code** : Not regulated as a dangerous good
- IATA-DGR** : Not regulated as a dangerous good
- UNRTDG** : Not regulated as a dangerous good

#### National Regulation

- DOT** : Not regulated as a dangerous good
- 49 CFR** : Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16. OTHER INFORMATION

- Revision Date** : 6.8.2016
- Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **GHS Full Text Phrases**

GHS Code	GHS Phrase
H320	Causes eye irritation

# SAFETY DATA SHEET

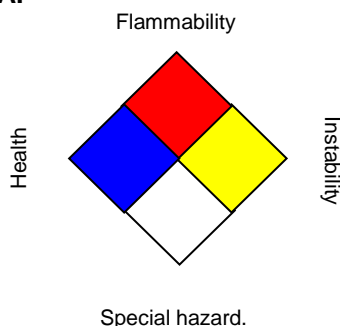


## Excelsior CM-910 Excelsior Cleaner / Maintainer

Version 1.0      Revision Date: 12/8/2016      MSDS Number: CM-910      Date of first issue: 03/04/2016

### Further Information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	A

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET



## EXCELSIOR MF-940 Excelsior Matte Floor Finish

Version 1.1      Revision Date: 12/12/2016      MSDS Number: MF-940      Date of first issue: 05/23/2016


### SECTION 1. IDENTIFICATION

**Product Name** : Excelsior Matte Floor Finish  
**Product Code** : MF-940  
**Supplier** : RHC  
**Address** : 1602 N. Union St.  
Fostoria, OH 44830  
**Telephone** : (844) 393 - 4044  
**Fax** : (419) 436 - 2482  
**Emergency Telephone Number** : (CHEMTREC): (800) 424-9300  
(CHEMTREC International): (703) 527-3887  
Industrial Health/Spill Emergency: (706) 277-1300

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : H320 – Eye Dam. 2B  
See section 16 for full text of H-Phrases

#### GHS Label Elements

**Hazard Pictograms** : 

**Signal Word** : Warning

**Hazard Statement** : H320 – Causes eye irritation.

**Precautionary Statement** : **Prevention:**  
P264 - Wash skin thoroughly after handling.  
**Response:**  
P305 + P351 + P338 +P310 - IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P337 + P313 – If eye/irritation persists: Get medical advice/ attention.  
P303 + P361 + P352 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water.  
P332 + P313 - If skin irritation occurs, get medical advice/attention.

# SAFETY DATA SHEET



## EXCELSIOR MF-940 Excelsior Matte Floor Finish

Version 1.1      Revision Date: 12/12/2016      MSDS Number: MF-940      Date of first issue: 05/23/2016

P370 + P378 - In case of fire: Use CO<sub>2</sub>, dry sand, foam or water spray to extinguish.

**Storage:**

P402 - Store in a cool, dry place.

**Disposal:**

P501 - Dispose of contents/ container to an approved waste disposal plant.

**Other Hazards** : None listed

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Finish

**Hazardous Components**

CAS#	Chemical Name	Percentage
Proprietary Mixture	Acrylic Copolymer	10 – 20
34590-94-8	Dipropylene Glycol Methyl Ether	1 - 5
78-51-3	Tributoxyethyl Phosphate	1 - 5

### SECTION 4. FIRST AID MEASURES

**Inhalation** : If inhaled, move to fresh air in case of accidental inhalation of vapors. Provide oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

**Skin Contact** : In case of skin contact, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Eye Contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.

#### **Most Important Symptoms and effects, Both Acute and Delayed**

**Eye Contact** : Causes eye irritation.

**EXCELSIOR MF-940**  
 Excelsior Matte Floor Finish

Version	Revision Date:	MSDS Number:	Date of first issue:
1.1	12/12/2016	MF-940	05/23/2016

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable Extinguishing Media** : Foam. Carbon dioxide (CO<sub>2</sub>). ABC powder. Water mist.
- Specific Hazards During Firefighting** : Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.
- Specific Extinguishing Methods** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special Protective Equipment for Firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions, Protective Equipment and Emergency Procedures** : Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.
- Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment.
- Methods and Materials for Containment and Cleaning Up** : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations.

**SECTION 7. HANDLING AND STORAGE**

- Advice on Protection Against Fire and Explosion** : The product is not flammable. No special protective measures against fire required.
- Advice on Safe Handling** : Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.
- Conditions for Safe Storage** : No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place.
- Materials to Avoid** : Do not freeze. Keep away from food and drink. Keep away from tobacco products.

**EXCELSIOR MF-940**

## Excelsior Matte Floor Finish

Version      Revision Date:      MSDS Number:      Date of first issue:  
 1.1            12/12/2016            MF-940            05/23/2016

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
<b>Dipropylene Glycol Methyl Ether</b>	34590-94-8	TWA	100 ppm	OSHA
			100 ppm	ACGIH
<b>Tributoxyethyl Phosphate</b>	78-51-3	TWA	25 ppm	OSHA
			20 ppm	ACGIH

**Exposure Controls**

- Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. Ensure all national/local regulations are observed.
- Environmental Exposure Controls** : Do not allow product to be released into the environment.
- Consumer Exposure Controls** : Do not eat, drink or smoke during use.

**Personal Protective Equipment**

- Respiratory Protection** : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Hand Protection** : Wear impervious gloves.
- Eye Protection** : Safety glasses with side-shields. Tightly fitting safety goggles. Face-shield
- Skin & Body Protection** : Wear suitable protective, chemically resistant clothing and footwear. Rinse skin after contact. Change contaminated clothing before reuse.
- Protective Measures** : The usual precautionary measures for handling chemicals. Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene Measures** : Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**EXCELSIOR MF-940**  
Excelsior Matte Floor Finish

Version	Revision Date:	MSDS Number:	Date of first issue:
1.1	12/12/2016	MF-940	05/23/2016

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	: Liquid
<b>Color</b>	: White
<b>Odor</b>	: Characteristic
<b>pH</b>	: 8
<b>Melting Point / Range</b>	: No data available
<b>Freezing Point</b>	: ~32° F (0° C)
<b>Boiling Point / Range</b>	: 212 °F (100° C)
<b>Flash Point</b>	: >212 °F (>100° C)
<b>Flammability</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Upper &amp; Lower Flammability Limit</b>	: None
<b>Specific Gravity</b>	: 1.015
<b>Water Solubility</b>	: Completely Soluble
<b>Solvent Solubility</b>	: No data available
<b>VOC Content</b>	: 0%

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	: Stable under normal conditions.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7).
<b>Possibility of Hazardous Reactions</b>	: None known.
<b>Conditions to Avoid</b>	: Protect from freezing.
<b>Incompatible Materials</b>	: Strong oxidizers.

# SAFETY DATA SHEET



## EXCELSIOR MF-940

### Excelsior Matte Floor Finish

Version	Revision Date:	MSDS Number:	Date of first issue:
1.1	12/12/2016	MF-940	05/23/2016

**Hazardous Decomposition Products** : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicological Effects (Product)

**Acute Toxicity** : LD50/oral/rat - >5,000 mg/kg

**Skin Corrosion / Irritation** : Not classified

**Serious Eye Damage / Irritation** : Causes eye irritation.

**Respiratory or Skin Sensitization** : Not classified

**Germ Cell Mutagenicity** : Not classified

**Teratogenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive Toxicity** : Not classified

**Aspiration Hazard** : Not classified

**Specific Target Organ Toxicity (Single or Repeated Exposure)** : Not classified

### Carcinogenic Categories

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.



# SAFETY DATA SHEET



## EXCELSIOR MF-940 Excelsior Matte Floor Finish

Version	Revision Date:	MSDS Number:	Date of first issue:
1.1	12/12/2016	MF-940	05/23/2016

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity (Product)

<b>Toxicity</b>	:	No additional information available
<b>Persistence &amp; Degradability</b>	:	Not available
<b>Bioaccumulative Potential</b>	:	Not available
<b>Mobility in Soil</b>	:	Not available
<b>Other Adverse Effects</b>	:	None known

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

<b>Waste from Residues</b>	:	Do not dispose of waste into sewer. Dispose of in accordance with federal, state/province and local regulations.
<b>Contaminated Packaging</b>	:	Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

<b>IMDG-Code</b>	:	Not regulated as a dangerous good
<b>IATA-DGR</b>	:	Not regulated as a dangerous good
<b>UNRTDG</b>	:	Not regulated as a dangerous good

#### National Regulation

<b>DOT</b>	:	Not regulated as a dangerous good
<b>49 CFR</b>	:	Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

<b>SARA 302</b>	:	Immediate (acute) health hazard.
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**EXCELSIOR MF-940**  
Excelsior Matte Floor Finish

Version 1.1      Revision Date: 12/12/2016      MSDS Number: MF-940      Date of first issue: 05/23/2016

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16. OTHER INFORMATION**

**Revision Date** : 12.12.2016

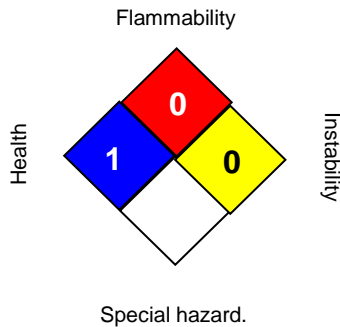
**Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases**

GHS Code	GHS Phrase
H320	Causes eye irritation

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>A</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Excelsior MS-700**  
Excelsior Modified Silane Wet Set Adhesive

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	9/16/2016	MS-700	Date of first issue: 03/04/2016

**SECTION 1. IDENTIFICATION**

**Product name** : Excelsior MS-700

**Product Description** : Modified Silane Wet Set Adhesive

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482

**Emergency Telephone Number** : CHEMTREC: (800) 424-9300  
CHEMTREC International: (703) 527-3887

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** : Not classified

**GHS Label Element** : Not a dangerous substance

**Other Hazards** : Exposure may aggravate those with pre-existing eye, skin or respiratory conditions.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Classification** : Mixtures

**Description** : Adhesive

**Hazardous Components** : None

**SECTION 4. FIRST AID MEASURES**

**Inhalation** : Move to fresh air. Seek medical attention if symptoms persist.

**Skin Contact** : Generally, product does not irritate the skin. If irritated, flush with plenty of water for at least 15 minutes while removing all contaminated clothing. Seek medical attention or contact a poison control center if symptoms persist. Wash clothing before reuse.

**Eye Contact** : In case of eye contact, remove contact lens and cautiously rinse immediately with plenty of water for at least 15 minutes.

## Excelsior MS-700

### Excelsior Modified Silane Wet Set Adhesive

Version 1.0	Revision Date: 9/16/2016	MSDS Number: MS-700	Date of last issue: - Date of first issue: 03/04/2016
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Keep eye wide open while rinsing. Seek medical attention if symptoms persist.

- Ingestion** : Do not induce vomiting without medical advice. If conscious, rinse out mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
- Most important symptoms and effects, both acute and delayed** : **General** - None expected under normal conditions.  
**Inhalation** – May cause respiratory irritation.  
**Skin Contact** – May cause mild skin irritation.  
**Eye Contact** – May cause minor eye irritation.  
**Ingestion** – Ingestion is likely to be harmful or have adverse effects.  
**Chronic Symptoms** – None expected under normal conditions.
- Indications of any immediate medical attention and special treatment needed** : No further relevant information available.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable Extinguishing Media** : Use extinguishing media appropriate for area.
- Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.
- Specific Hazards While Firefighting** : Product is not flammable. Product is not explosive. Hazardous reactions are unlikely to occur under normal circumstances.
- Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions or excessive heating, hazardous fumes may be present.
- Specific Extinguishing Instructions** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Hazardous Combustion Products** : No data available.
- Other Information** : Refer to Section 9 for flammability properties.

## Excelsior MS-700

### Excelsior Modified Silane Wet Set Adhesive

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	9/16/2016	MS-700	Date of first issue: 03/04/2016

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment & Emergency Procedures** : Ensure adequate ventilation.
- Instructions for Non-Emergency Personnel** : No special instructions required.
- Instructions for Emergency Personnel** : No special instructions required.
- Environmental Precautions** : No special instructions required.
- Methods & Materials for Containment and Cleaning Up** : Contain any spills with inert absorbent material (e.g. sand, diatomite, acid binder, universal binder, sawdust).  
Clean up spills immediately and dispose contaminated material according to section 13.
- Reference to Other Sections** : See Section 8 for information on personal protection.  
See section 13 for disposal information.

## SECTION 7. HANDLING AND STORAGE

- Precautions on Safe Handling** : Use only in well ventilated areas. No other special precautions required.
- Conditions for Safe Storage** : Comply with applicable regulations. Store in a dry, cool and well-ventilated area. Keep container closed when not in use. Keep away from direct sunlight, extremely high or low temperatures. Keep away from incompatible materials.
- Incompatible Materials** : Strong acids & oxidizing agents.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with Workplace Control Parameters

Contains no substances with occupational exposure limit values.

### Exposure Controls

- Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Keep away from incompatible materials.
- Environmental Exposure Controls** : Do not allow product to be released into the environment.

## Excelsior MS-700

### Excelsior Modified Silane Wet Set Adhesive

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#### **Personal Protective Equipment**

- Respiratory Protection** : Not required if room is well-ventilated.
- Hand Protection** : Gloves must be impermeable and resistant to product. Consult glove manufacturer to confirm resistance. For persons with dry skin, use lotion or ointment after cleaning.
- Eye Protection** : Chemical goggles or safety glasses.
- Skin & Body Protection** : Wear suitable protective clothing.
- Protective Measures** : The usual precautionary measures for handling chemicals should be followed.
- Hygiene Measures** : The usual precautionary measures for handling chemicals should be followed.

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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : Paste
- Color** : Light Brown
- Odor** : Characteristic
- pH** : 9.0 – 10.0
- Melting Point / Range** : Not determined
- Freezing Point** : No data available
- Boiling Point / Range** : 741° F (394° C)
- Flash Point** : 394° F (201° C)
- Flammability** : Not applicable
- Ignition Temperature** : 626° F (330° C)
- Auto-Ignition Temperature** : Not self-igniting
- Decomposition Temperature** : Not determined
- Specific Gravity** : 1.25 g/cm<sup>3</sup>
- Water Solubility** : No data available
- Partition Coefficient (Noctanol/Water)** : No data available

**Excelsior MS-700****Excelsior Modified Silane Wet Set Adhesive**

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<b>Viscosity</b>	: 65,000 mPas
<b>Explosion Data – Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge
<b>Solids Content</b>	: 100%
<b>VOC Content</b>	: < 0.01%

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under normal conditions.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7).
<b>Possibility of Hazardous Reactions</b>	: Reacts with strong acids and oxidizing agents.
<b>Conditions to Avoid</b>	: Incompatible materials.
<b>Incompatible Materials</b>	: Strong acids and oxidizing agents.
<b>Hazardous Decomposition Products</b>	: Carbon oxides (CO, CO <sub>2</sub> ).

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicological Effects

<b>Acute toxicity</b>	: Not classified / available
<b>Skin Corrosion / Irritation</b>	: No irritating effect
<b>Serious Eye Damage / Irritation</b>	: No irritating effect
<b>Respiratory or Skin Sensitization:</b>	: No irritating effect
<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Teratogenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified

## Excelsior MS-700

### Excelsior Modified Silane Wet Set Adhesive

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**Reproductive Toxicity** : Not classified

**Aspiration Hazard** : Not classified

**Specific Target Organ Toxicity (Single or Repeated Exposure)** : Not classified

**Symptoms / Injuries After Inhalation** : May cause respiratory irritation

**Symptoms / Injuries After Skin Contact** : May cause mild skin irritation

**Symptoms / Injuries After Skin Contact** : May cause minor eye irritation.

**Symptoms / Injuries After Skin Contact** : Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms** : None expected under normal conditions

#### Carcinogenic Categories

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

**Toxicity** : No additional information available

**Persistence & Degradability** : Not available

**Bioaccumulative Potential** : Not available

**Mobility in Soil** : Not available

**Other Adverse Effects** : None known

**General Notes** : Water Hazard Class 1 (self-assessment): slightly hazardous



**Excelsior MS-700****Excelsior Modified Silane Wet Set Adhesive**

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for water. Do not allow undiluted product or large quantities to reach water course or sewage systems.

**Other Information** : Avoid release into the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

**Waste from residues** : Small quantities can be disposed of with household waste. Larger quantities can be disposed of in accordance with federal, state/province and local regulations.

**Contaminated packaging** : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

### International Regulation

**DOT** : Not regulated as a dangerous good

**IMDG-Code** : Not regulated as a dangerous good

**IATA-DGR** : Not regulated as a dangerous good

**UNRTDG** : Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

**SARA 355** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 355.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**TSCA (Toxic Substance Control Act)** : All ingredients are not listed or are not required to be listed on the TSCA inventory.

**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Chemicals known to cause cancer** : None of the ingredients listed

**Chemicals known to cause reproductive toxicity for** : None of the ingredients listed

**Excelsior MS-700**

## Excelsior Modified Silane Wet Set Adhesive

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**females**

**Chemicals known to cause reproductive toxicity for males** : None of the ingredients listed

**Chemicals known to cause developmental toxicity** : None of the ingredients listed

**GHS Label Elements** : Void

**Signal Pictograms** : Void

**Signal Word** : Void

**Hazard Statements** : Void

**VOC** : 0 g/l – 0 lb/gal

**Chemical Safety Assessment** : A Chemical Safety Assessment has not been carried out.

**WHMIS Classification** : Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this SDS contains all of the information required by CPR.

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**SECTION 16. OTHER INFORMATION**


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**Revision Date** : 9.16.2016

**Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

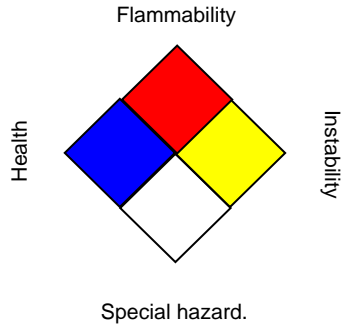
# SAFETY DATA SHEET



## Excelsior MS-700 Excelsior Modified Silane Wet Set Adhesive

Version 1.0      Revision Date: 9/16/2016      MSDS Number: MS-700      Date of last issue: -  
Date of first issue: 03/04/2016

### NFPA:



### HMIS III:

<b>HEALTH</b>	
<b>FLAMMABILITY</b>	
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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# SAFETY DATA SHEET



## Excelsior NC-900 Excelsior All-Purpose Neutral Cleaner

Version 1.0      Revision Date: 12/8/2016      MSDS Number: NC-900      Date of first issue: 03/04/2016

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### SECTION 1. IDENTIFICATION

**Product Name** : Excelsior All Purpose Neutral Cleaner

**Product Code** : NC-900

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044


**Fax** : (419) 436 - 2482

**Emergency Telephone Number** : (CHEMTREC): (800) 424-9300  
(CHEMTREC International): (703) 527-3887  
Industrial Health/Spill Emergency: (706) 277-130

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : H320 – Eye Dam. 2B  
See section 16 for full text of H-Phrases

#### GHS Label Elements

**Hazard Pictograms** : 

**Signal Word** : Warning

**Hazard Statement** : H320 – Causes eye irritation.

**Precautionary Statement** : **Prevention:**  
P264 - Wash skin thoroughly after handling.  
**Response:**  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 – If eye/irritation persists: Get medical advice/attention.

**Other Hazards** : None listed



## Excelsior NC-900

### Excelsior All-Purpose Neutral Cleaner

Version 1.0      Revision Date: 12/8/2016      MSDS Number: NC-900      Date of first issue: 03/04/2016

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Cleaner

#### Hazardous Components

CAS#	Chemical Name	Percentage
Proprietary	Surfactant Blend	5 – 10
64-04-02	Sodium Citrate	1 - 5

### SECTION 4. FIRST AID MEASURES

#### First Aid Measures

**Inhalation** : If inhaled, move to fresh air in case of accidental inhalation of vapors. Provide oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

**Skin Contact** : In case of skin contact, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Eye Contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.

#### Most Important Symptoms and effects, Both Acute and Delayed

**Eye Contact** : Causes eye irritation.

### SECTION 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media** : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

**Specific Hazards During Firefighting** : Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.

**Specific Extinguishing Methods** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and



## Excelsior NC-900

### Excelsior All-Purpose Neutral Cleaner

Version 1.0	Revision Date: 12/8/2016	MSDS Number: NC-900	Date of first issue: 03/04/2016
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contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special Protective Equipment for Firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures** : Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.

**Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment.

**Methods and Materials for Containment and Cleaning Up** : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations.

## SECTION 7. HANDLING AND STORAGE

**Advice on Protection Against Fire and Explosion** : The product is not flammable. No special protective measures against fire required.

**Advice on Safe Handling** : Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.

**Conditions for Safe Storage** : No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Materials to Avoid** : Avoid strong oxidizers. Do not freeze. Keep away from food and drink. Keep away from tobacco products.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Exposure Controls

**Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure

# SAFETY DATA SHEET



## Excelsior NC-900 Excelsior All-Purpose Neutral Cleaner

Version 1.0      Revision Date: 12/8/2016      MSDS Number: NC-900      Date of first issue: 03/04/2016

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standards. Ensure all national/local regulations are observed.

**Environmental Exposure Controls** : Do not allow product to be released into the environment.

**Consumer Exposure Controls** : Do not eat, drink or smoke during use.

### Personal Protective Equipment

**Respiratory Protection** : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Hand Protection** : Wear impervious gloves.

**Eye Protection** : Safety glasses with side-shields. Tightly fitting safety goggles. Face-shield

**Skin & Body Protection** : Wear suitable protective, chemically resistant clothing and footwear. Rinse skin after contact. Change contaminated clothing before reuse.

**Protective Measures** : The usual precautionary measures for handling chemicals. Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures** : Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Liquid

**Color** : Clear

**Odor** : Characteristic

**pH** : 8.5

**Melting Point / Range** : No data available

**Freezing Point** : ~32° F (0° C)

# SAFETY DATA SHEET



## Excelsior NC-900 Excelsior All-Purpose Neutral Cleaner

Version 1.0	Revision Date: 12/8/2016	MSDS Number: NC-900	Date of first issue: 03/04/2016
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<b>Boiling Point / Range</b>	: 212 °F (100° C)
<b>Flash Point</b>	: >212 °F (>100° C)
<b>Flammability</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Upper &amp; Lower Flammability Limit</b>	: None
<b>Specific Gravity</b>	: 1.033
<b>Water Solubility</b>	: Completely soluble
<b>Solvent Solubility</b>	: No data available
<b>VOC Content</b>	: < 1%

### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under normal conditions.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7).
<b>Possibility of Hazardous Reactions</b>	: None known.
<b>Conditions to Avoid</b>	: Protect from freezing.
<b>Incompatible Materials</b>	: Strong acids, strong bases, strong oxidizers.
<b>Hazardous Decomposition Products</b>	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Toxicological Effects (Product)

<b>Acute Toxicity</b>	: LD50/oral/rat - >5,000 mg/kg
<b>Skin Corrosion / Irritation</b>	: Not classified
<b>Serious Eye Damage / Irritation</b>	: Causes eye irritation.



# SAFETY DATA SHEET



## Excelsior NC-900 Excelsior All-Purpose Neutral Cleaner

Version	Revision Date:	MSDS Number:	Date of first issue:
1.0	12/8/2016	NC-900	03/04/2016

<b>Respiratory or Skin Sensitization</b>	: Not classified
<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Teratogenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified
<b>Reproductive Toxicity</b>	: Not classified
<b>Aspiration Hazard</b>	: Not classified
<b>Specific Target Organ Toxicity (Single or Repeated Exposure)</b>	: Not classified

### Carcinogenic Categories

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity (Product)

<b>Toxicity</b>	: No additional information available
<b>Persistence &amp; Degradability</b>	: Not available
<b>Bioaccumulative Potential</b>	: Not available
<b>Mobility in Soil</b>	: Not available
<b>Other Adverse Effects</b>	: None known
<b>Other Information</b>	: Avoid release into the environment

# SAFETY DATA SHEET



## Excelsior NC-900 Excelsior All-Purpose Neutral Cleaner

Version	Revision Date:	MSDS Number:	Date of first issue:
1.0	12/8/2016	NC-900	03/04/2016

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

- Waste from Residues** : Do not dispose of waste into sewer. Dispose of in accordance with federal, state/province and local regulations.
- Contaminated Packaging** : Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

- IMDG-Code** : Not regulated as a dangerous good
- IATA-DGR** : Not regulated as a dangerous good
- UNRTDG** : Not regulated as a dangerous good

#### National Regulation

- DOT** : Not regulated as a dangerous good
- 49 CFR** : Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16. OTHER INFORMATION

- Revision Date** : 6.8.2016

SAFETY DATA SHEET



**Excelsior NC-900**  
Excelsior All-Purpose Neutral Cleaner

Version 1.0      Revision Date: 12/8/2016      MSDS Number: NC-900      Date of first issue: 03/04/2016

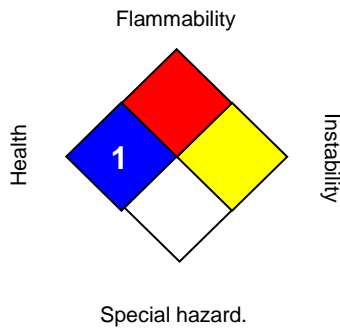
**Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases** :

GHS Code	GHS Phrase
H320	Causes eye irritation

**Further Information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	A

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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# SAFETY DATA SHEET



## Excelsior PF- 960 Excelsior Performance Finish

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	03/04/2016	PF- 960	Date of first issue: 03/04/2016

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### SECTION 1. IDENTIFICATION

Product name : Excelsior Performance Finish

Product code : PF- 960

#### Manufacturer or supplier's details

Company name of supplier : XL North

Address : 63 Water Street  
Fall River MA 02722

Telephone : (508) 675-0528

Telefax : (508) 673-2222

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

Not a hazardous substance or mixture.

#### Other hazards

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

No hazardous ingredients

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### SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

## Excelsior PF- 960

### Excelsior Performance Finish

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	03/04/2016	PF- 960	Date of first issue: 03/04/2016

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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
 Keep eye wide open while rinsing.  
 Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
 If conscious, drink plenty of water.  
 Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

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#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
 Carbon dioxide (CO<sub>2</sub>)  
 ABC powder  
 Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
 Exposure to decomposition products may be a hazard to health.  
 Cool closed containers exposed to fire with water spray.  
 Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Use water spray to cool unopened containers.  
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
 Use personal protective equipment.  
 Exposure to decomposition products may be a hazard to health.

---

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
 Ensure adequate ventilation.  
 Material can create slippery conditions.  
 Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
 Do not let product enter drains.  
 Do not allow contact with soil, surface or ground water.  
 Do not allow uncontrolled discharge of product into the environment.

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## Excelsior PF- 960

### Excelsior Performance Finish

Version 1.0	Revision Date: 03/04/2016	MSDS Number: PF- 960	Date of last issue: - Date of first issue: 03/04/2016
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Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

##### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.

Hand protection  
Material : Impervious gloves

## Excelsior PF- 960

### Excelsior Performance Finish

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- |                          |   |   |
|--------------------------|---|---|
| Eye protection           | : | Safety glasses with side-shields<br>Tightly fitting safety goggles<br>Face-shield   |
| Skin and body protection | : | Chemical resistant apron<br>Footwear protecting against chemicals<br>Skin should be washed after contact.<br>Change working clothes after each workshift.   |
| Protective measures      | : | Avoid contact with skin.<br>When using do not eat, drink or smoke.<br>Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing<br>The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Hygiene measures         | : | Do not smoke.<br>Keep away from food and drink.<br>Avoid contact with skin, eyes and clothing.<br>Change working clothes after each workshift.<br>Remove and wash contaminated clothing and gloves, including the inside, before re-use.  |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                              |   |                         |
|------------------------------|---|-------------------------|
| Appearance                   | : | liquid                  |
| Colour                       | : | milky, white, opaque    |
| Odour                        | : | characteristic, mild    |
| pH                           | : | 8.0                     |
| Melting point/range          | : | No data available       |
| Boiling point/boiling range  | : | 212 °F                  |
| Flash point                  | : | > 212 °F                |
| Upper explosion limit        | : | No data available       |
| Lower explosion limit        | : | No data available       |
| Density                      | : | 1,010 kg/m <sup>3</sup> |
| Solubility(ies)              |   |                         |
| Water solubility             | : | completely miscible     |
| Solubility in other solvents | : | not determined          |



## Excelsior PF- 960

### Excelsior Performance Finish

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1.0	03/04/2016	PF- 960	Date of first issue: 03/04/2016

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Protect from frost.
Incompatible materials	:	Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

###### Product:

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.

##### Skin corrosion/irritation

###### Product:

Remarks: This information is not available.

##### Serious eye damage/eye irritation

###### Product:

Remarks: This information is not available.

##### Respiratory or skin sensitisation

###### Product:

Remarks: This information is not available.

##### Carcinogenicity

###### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

###### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.



# SAFETY DATA SHEET



## Excelsior PF- 960 Excelsior Performance Finish

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gen by OSHA.

### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae	:	Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated packaging	:	Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulation

UNRTDG

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# SAFETY DATA SHEET



## Excelsior PF- 960 Excelsior Performance Finish

Version 1.0      Revision Date: 03/04/2016      MSDS Number: PF- 960      Date of last issue: -  
Date of first issue: 03/04/2016

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

#### 49 CFR

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

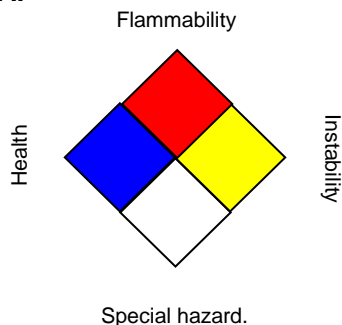
**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

# SAFETY DATA SHEET



## **Excelsior PF- 960** Excelsior Performance Finish

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	03/04/2016	PF- 960	Date of first issue: 03/04/2016

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Revision Date : 06/03/2015

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US / EN

## Excelsior PR-930

### Excelsior Performance Finish Remover

Version	Revision Date:	MSDS Number:	Date of last issue:
1.0	12/12/2016	PR-930	03/04/2016

#### SECTION 1. IDENTIFICATION

**Product Name** : Excelsior Performance Finish Remover

**Product Code** : PR-930

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482


**Emergency Telephone Number** : (CHEMTREC): (800) 424-9300  
(CHEMTREC International): (703) 527-3887  
Industrial Health/Spill Emergency: (706) 277-1300

#### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification** : H227 – Flam. Liq. 4  
H315 – Skin Corr. 2  
H320 – Eye Dam. 2B

See section 16 for full text of H-Phrases

#### GHS Label Elements

**Hazard Pictograms** : 

**Signal Word** : Warning

**Hazard Statement** : H227 - Combustible liquid.  
H315 + H320 – Causes skin and eye irritation.

**Precautionary Statement** : **Prevention:**  
P210 - Keep away from heat/sparks/open flames/hot surfaces.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P302 + P353 - IF ON SKIN: Rinse skin with water/shower.  
P332 + P313 - If skin irritation occurs, get medical advice/attention.



## Excelsior PR-930

### Excelsior Performance Finish Remover

Version 1.0      Revision Date: 12/12/2016      MSDS Number: PR-930      Date of last issue: 03/04/2016

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye/irritation persists: Get medical advice/attention.

**Disposal:**

P501 - Dispose of contents/ container to an approved waste disposal plant.

**Other Hazards** : None listed

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Classification** : Mixtures

**Description** : Cleaner

#### Hazardous Components

CAS#	Chemical Name	Percentage
Proprietary	Surfactant Blend	20 - 30
100-51-6	Benzyl Alcohol	10 – 20
29911-27-1	Dipropylene Glycol n-Propyl Ether	5 – 10
141-43-5	2-aminoethanol	1 – 5
1300-72-7	Sodium Xylene Sulfonate	1 – 5
78-51-3	Tributoxyethyl Phosphate	1 - 5

### SECTION 4. FIRST AID MEASURES

**Inhalation** : If inhaled, move to fresh air in case of accidental inhalation of vapors. Provide oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

**Skin Contact** : In case of skin contact, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Eye Contact** : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.

#### Most Important Symptoms and effects, Both Acute and Delayed

**Eye Contact** : Causes eye irritation.

**Skin Contact** : Causes skin irritation.

**Excelsior PR-930**  
 Excelsior Performance Finish Remover

Version	Revision Date:	MSDS Number:	Date of last issue:
1.0	12/12/2016	PR-930	03/04/2016

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable Extinguishing Media** : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist
- Specific Hazards During Firefighting** : Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.
- Specific Extinguishing Methods** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special Protective Equipment for Firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions, Protective Equipment and Emergency Procedures** : Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.
- Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment.
- Methods and Materials for Containment and Cleaning Up** : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations.

**SECTION 7. HANDLING AND STORAGE**

- Advice on Protection Against Fire and Explosion** : The product is flammable but not readily ignited.
- Advice on Safe Handling** : Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.
- Conditions for Safe Storage** : No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place.

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**Materials to Avoid** : Do not freeze. Keep away from oxidizing agents and strongly acid or alkaline materials. Keep away from food and drink. Keep away from tobacco products.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with Workplace Control Parameters

Components	CAS-No.	Value Type (Form of Exposure)	Control Parameters / Permissible Concentration	Basis
Tributoxyethyl Phosphate	78-51-3	TWA	25 ppm	OSHA
			20 ppm	ACGIH
2-aminoethanol	141-43-5	TWA	6 ppm	OSHA (PEI)
Benzyl Alcohol	100-51-6	TWA	6 mg/m3	Osha (PEL)

#### Exposure Controls

- Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. Ensure all national/local regulations are observed.
- Environmental Exposure Controls** : Do not allow product to be released into the environment.
- Consumer Exposure Controls** : Do not eat, drink or smoke during use.

#### Personal Protective Equipment

- Respiratory Protection** : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Hand Protection** : Wear impervious gloves.
- Eye Protection** : Wear safety glasses with side-shields or tightly fitting safety goggles.
- Skin & Body Protection** : Wear suitable protective, chemically resistant clothing and footwear. Rinse skin after contact. Change contaminated clothing before reuse.
- Protective Measures** : Avoid contact with skin. When using do not eat, drink or smoke. Wear personal protective equipment comprising: suitable protective gloves, safety goggles and protective

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clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Measures** : Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Liquid
<b>Color</b>	: Clear
<b>Odor</b>	: Characteristic
<b>pH</b>	: 11
<b>Melting Point / Range</b>	: No data available
<b>Freezing Point</b>	: No data available
<b>Boiling Point / Range</b>	: 212 °F (100° C)
<b>Flash Point</b>	: 167 °F (75° C)
<b>Flammability</b>	: No data available
<b>Auto-Ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Upper &amp; Lower Flammability Limit</b>	: None
<b>Specific Gravity</b>	: 1.007
<b>Water Solubility</b>	: Completely soluble
<b>Solvent Solubility</b>	: No data available

### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under normal conditions.
<b>Chemical Stability</b>	: Stable under recommended handling and storage conditions (see section 7).





## Excelsior PR-930

### Excelsior Performance Finish Remover

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<b>Possibility of Hazardous Reactions</b>	: None known.
<b>Conditions to Avoid</b>	: Protect from freezing.
<b>Incompatible Materials</b>	: Strong acids, strong bases, strong oxidizers.
<b>Hazardous Decomposition Products</b>	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicological Effects (Product)

<b>Acute Toxicity</b>	: None
<b>Skin Corrosion / Irritation</b>	: May cause skin irritation.
<b>Serious Eye Damage / Irritation</b>	: May cause eye irritation.
<b>Respiratory or Skin Sensitization</b>	: Not classified
<b>Germ Cell Mutagenicity</b>	: Not classified
<b>Teratogenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified
<b>Reproductive Toxicity</b>	: Not classified
<b>Aspiration Hazard</b>	: Not classified
<b>Specific Target Organ Toxicity (Single or Repeated Exposure)</b>	: Not classified

### Carcinogenic Categories

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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**NTP** : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity (Product)

**Toxicity** : Not available

**Persistence & Degradability** : Not available

**Bioaccumulative Potential** : Not available

**Mobility in Soil** : Not available

**Other Adverse Effects** : None known

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from Residues** : Do not dispose of waste into sewer. Can be landfilled when in accordance with federal, state/province and local regulations.

**Contaminated Packaging** : Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

### International Regulation

**IMDG-Code** : Not regulated as a dangerous good

**IATA-DGR** : Not regulated as a dangerous good

**UNRTDG** : Not regulated as a dangerous good

### National Regulation

**DOT** : Not regulated as a dangerous good

**49 CFR** : Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

- SARA 302** : Immediate (acute) health hazard.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16. OTHER INFORMATION**

- Revision Date** : 6.8.2016
- Other Information** : This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.

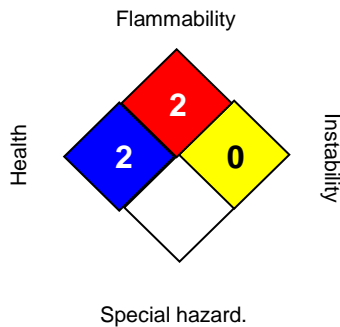
**GHS Full Text Phrases**

GHS Code	GHS Phrase
H227	Combustible Liquid
H315	Causes skin irritation
H320	Causes eye irritation

H227 - Combustible liquid.  
H315 – Causes skin irritation.  
H320 – Causes eye irritation.

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>B</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

# SAFETY DATA SHEET



## **Excelsior PR-930** Excelsior Performance Finish Remover

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Excelsior SP-500****Excelsior Acrylic Aerosol Pressure-Sensitive Adhesive**

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	1/26/2017	SP-500	Date of first issue: 03/04/2016

**SECTION 1. IDENTIFICATION**

**Product name** : Excelsior SP-500

**Product Description** : Acrylic Aerosol Pressure-Sensitive Adhesive

**Supplier** : RHC

**Address** : 1602 N. Union St.  
Fostoria, OH 44830

**Telephone** : (844) 393 - 4044

**Fax** : (419) 436 - 2482

**Emergency Telephone Number** : CHEMTREC: (800) 424 - 9300  
CHEMTREC International: (703) 527 - 3887  
Industrial Health/Spill Emergency: (706) 277 - 1300

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** : H229 – Comp. Gas  
See section 16 for full text of H-Phrases

**GHS Label Elements****Hazard Pictograms** :**Signal Word** : Warning**Hazard Statements** : H229 – Pressurized container: may burst if heated.

**Precautionary Statements** : P102 – Keep out of reach of children.  
P103 – Read label before use.  
P235+P410 – Keep Cool. Protect from sunlight.  
P412 – Do not expose to temperatures exceeding 122° F (50° C).

**Other Hazards** : None known.

**Excelsior SP-500****Excelsior Acrylic Aerosol Pressure-Sensitive Adhesive**

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Classification** : Mixtures

**Description** : Adhesive

**Components**

CAS#	Chemical Name	Percentage
25586-20-3	Acrylic Latex	99.99
2634-35-5	Preservative	0.01

**SECTION 4. FIRST AID MEASURES**

**Inhalation** : If inhaled, move to fresh air. Provide oxygen or artificial respiration if needed. If symptoms persist, contact a poison control center or seek medical attention immediately.

**Skin Contact** : In case of skin contact, flush with plenty of water for at least while removing all contaminated clothing and shoes. If symptoms persist, seek medical attention immediately.

**Eye Contact** : In case of eye contact, remove contact lens and cautiously rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Seek medical attention immediately.

**Ingestion** : If ingested, do NOT induce vomiting without medical advice. If conscious, rinse out mouth. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed** : No further relevant information available.

**Indications of any immediate medical attention and special treatment needed** : No further relevant information available.

**SECTION 5. FIREFIGHTING MEASURES****Extinguishing Media**

**Suitable Extinguishing Media** : Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Water mist

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**Unsuitable Extinguishing Media** : Do not use heavy water stream, as this may spread fire.

**Specific Hazards Arising From Substance or Mixture**

**Fire Hazard** : Product is not considered flammable, but may burn at high temperatures.

**Explosion Hazard** : Product is not explosive, but container may burst during heating or in case of fire.

**Reactivity** : The formation of irritating fumes is possible during heating or in case of fire.

**Advice for Firefighting**

**Precautionary Measures While Firefighting** : Exercise caution when fighting any chemical fire. Under fire conditions, irritating fumes may be present. Exposure to decomposition products may be a hazard to health.

**Specific Firefighting Instructions** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Do not allow run-off from firefighting to enter sewage systems or water course. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Specific Protection Equipment for Firefighters** : Do not enter fire area without proper protective equipment, including self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment & Emergency Procedures** : Ensure adequate ventilation. Use personal protective equipment. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.

**Environmental Precautions** : Prevent further leakage or spillage if safe to do so. Do not allow uncontrolled discharge of product into the environment. Do not allow product to reach sewage systems, soil or water course.

**Methods & Materials for Containment and Cleaning Up** : Contain any spills with dikes or dams and soak up with inert absorbent material (e.g. sand, diatomite, acid binder, universal binder, sawdust) to prevent migration into sewage systems, soil and water course. Sweep up and shovel material into properly labeled containers for disposal. Clean up spills immediately and dispose contaminated material according to section 13. Clean contaminated floors and objects thoroughly while observing environmental regulations.

**Excelsior SP-500****Excelsior Acrylic Aerosol Pressure-Sensitive Adhesive**

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**Reference to Other Sections** : See section 7 for information on safe handling.  
See Section 8 for information on personal protection.  
See section 13 for disposal information.

**SECTION 7. HANDLING AND STORAGE**

**Advice on Protection Against Fire and Explosion** : Product is not flammable. Keep away from heat and sources of ignition.

**Precautions on Safe Handling** : Ensure adequate ventilation. Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.

**Conditions for Safe Storage** : Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking.

**Incompatible Materials** : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

**Specific End Use(s)** : No use specified.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with Workplace Control Parameters**

Contains no substances with occupational exposure limit values.

**Exposure Controls**

**Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Maintain air concentrations below occupational exposure standards. Ensure all national/local regulations are observed.

**Environmental Exposure Controls** : Do not allow product to be released into the environment.

**Consumer Exposure Controls** : Do not eat, drink or smoke during use.

**Personal Protective Equipment**



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- Respiratory Protection** : No personal respiratory protective equipment normally required. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Hand Protection** : Impervious Gloves.
- Eye Protection** : Tightly sealed safety goggles or glasses, face shield.
- Skin & Body Protection** : Chemical resistant apron and footwear. Skin should be washed after contact. Change working clothes after each workshift.
- Protective Measures** : Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene Measures** : Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Aerosol
- Color** : White
- Odor** : Slight
- Melting Point/Range** : No Data Available
- Boiling Point/Range** : 212° F (100° C)
- Flash Point** : >212° F (>100° C)
- Lower/ Upper Explosion Limit** : Product does not present an explosion hazard.
- Vapor Pressure** : No Data Available
- Density** : 8.2 lbs/gal
- Viscosity** : 300 mPas

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**Water Solubility** : Dispersible

**Partition coefficient: n-octonal/water** : No Data Available

**Explosive Properties** : Not Applicable

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity** : Stable under normal conditions.

**Chemical Stability** : Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions** : None known.

**Conditions to Avoid** : Protect from frost, heat and sunlight.

**Incompatible Materials** : No data available.

**Hazardous Decomposition Products** : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**SECTION 11. TOXICOLOGICAL INFORMATION****Toxicological Effects (Product)**

**Acute Oral Toxicity** : No data available

**Acute Dermal Toxicity** : No data available

**Acute Inhalation Toxicity** : LC<sub>50</sub> (Rat): 1,500 g/m<sup>3</sup>  
Exposure time: 4.0 h

**Skin Corrosion / Irritation** : May irritate skin. May cause skin irritation and/or dermatitis.

**Serious Eye Damage / Irritation** : May irritate eyes.

**Respiratory or Skin Sensitization:** : Not classified

**Germ Cell Mutagenicity** : Not classified

**Teratogenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive Toxicity** : Not classified

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**Aspiration Hazard** : Not classified

**Specific Target Organ Toxicity (Single or Repeated Exposure)** : Not classified

**Chronic Symptoms** : None expected under normal conditions

**Carcinogenic Categories**

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity (Product)**

**Toxicity to Fish** : May cause long-term adverse effects in the aquatic environment.

**Toxicity to Daphnia and Other Aquatic Invertebrates** : May cause long-term adverse effects in the aquatic environment.

**Toxicity to Algae** : May cause long-term adverse effects in the aquatic environment.

**Persistence & Degradability** : Not available

**Bioaccumulative Potential** : Not available

**Mobility in Soil** : Not available

**Other Adverse Effects** : None known

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

- Waste from Residues** : Do not allow product to reach sewage system or water course. Dispose of in accordance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.
- Contaminated Packaging** : Clean container with water. Empty containers should be taken to an approved waste handling site for disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

- UN/ID No.** : UN 1950  
**Proper Shipping Name** : Aerosols, non-flammable (1,3,3,3-Tetrafluoroprop-1-ene)  
**Class** : 2.2  
**Packing Group** : Not assigned by regulation  
**Labels** : Non-flammable, non-toxic Gas  
**Packing Instructions (Cargo Aircraft)** : 203  
**Packing Instructions (Passenger Aircraft)** : 203

**IMDG-Code**

- UN/ID No.** : UN 1950  
**Proper Shipping Name** : Aerosols, non-flammable  
**Class** : 2.2  
**Packing Group** : Not assigned by regulation  
**Labels** : Non-flammable, non-toxic Gas  
**EmS Code** : F-D, S-U  
**Marine Pollutant** : no

**National Regulation****49 CFR**

- UN/ID No.** : UN 1950  
**Proper Shipping Name** : Aerosols, non-flammable (1,3,3,3-Tetrafluoroprop-1-ene)  
**Class** : 2.2  
**Packing Group** : Not assigned by regulation  
**Labels** : NON-FLAMMABLE GAS

**Excelsior SP-500****Excelsior Acrylic Aerosol Pressure-Sensitive Adhesive**

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<b>ERG Code</b>	:	126
<b>Marine Polutant</b>	:	No

**SECTION 15. REGULATORY INFORMATION**

<b>SARA 302</b>	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313</b>	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>TSCA (Toxic Substance Control Act)</b>	:	All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).
<b>California Prop 65</b>	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
<b>Chemicals known to cause cancer</b>	:	None of the ingredients listed
<b>Chemicals known to cause reproductive toxicity for females</b>	:	None of the ingredients listed
<b>Chemicals known to cause reproductive toxicity for males</b>	:	None of the ingredients listed
<b>Chemicals known to cause developmental toxicity</b>	:	None of the ingredients listed
<b>VOC</b>	:	0.0 g/l – 0.00 lb/gal
<b>Chemical Safety Assessment</b>	:	A Chemical Safety Assessment has not been carried out.

**SECTION 16. OTHER INFORMATION**

<b>Revision Date</b>	:	1.26.2017
<b>Other Information</b>	:	This document has been prepared in accordance with the SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200.
<b>GHS Full Text Phrases</b>	:	

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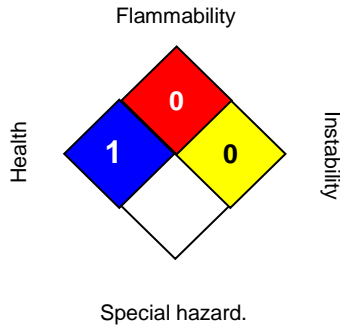


**Excelsior SP-500**  
Excelsior Acrylic Aerosol Pressure-Sensitive Adhesive

Version 1.0      Revision Date: 1/26/2017      MSDS Number: SP-500      Date of last issue: -  
Date of first issue: 03/04/2016

GHS Code	GHS Phrase
H229	Pressurized container: may burst if heated.

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

# Experius

## Material Safety Data Sheet

Experius 2000

Pressure Sensitive Adhesive

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

Manufactured for Experius by XL Brands

Telephone No.: 800-367-4583

**24-hour Emergency:**

**Chemtrec 1-800-424-9300**

### Product Identification:

Product Class: Aqueous Adhesive

Product Name: Experius 2000

### Hazardous Ingredients: None known

\*All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

### Physical Data:

Boiling Point: 212° F

Vapor Density: Same as water

Evaporation Rate: Same as water

Appearance and Odor: Blue paste, low odor

Weight per Gallon: 8.2 lbs.

Solubility in Water: Dispersible

V.O.C. (Calculated): "zero" grams/liter

### Fire and Explosion Hazard Data:

Flammable Limits: Non-flammable

Flash Point: > 212 deg. F.

Flammability Classification: OSHA: None

DOT: None

Extinguishing Media: CO<sub>2</sub>, chemical foam, water fog

**Special Fire Fighting Features:** Wear self-contained breathing gear when in confined area.

### Health Hazard Data:

Threshold Limit Value: Not established

Effects of Overexposure: No known chronic overexposure effects.

**Emergency and First Aid Procedure:** Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: In case of over-exposure move victim to fresh air. Get medical attention.

### Reactivity Data:

Conditions to avoid: Excessive heat or cold

Stability: Stable

Incompatibility: None known

Hazardous Decomposition Products: None known; Normal (CO<sub>2</sub>, CO)

Hazardous Polymerization: Will not occur

### Precautions for Handling and Use:

Ventilation: Local ventilation

Protective Gloves: Recommended

Eye Protection: Safety glasses

Hygienic Practices: Wash with soap and water after exposure

Respiratory Protection: Not required with adequate ventilation

Other Protective Equipment: None

Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Dispose of in accordance with Federal, State and Local regulations.

### Special Precautions/Other Comments:

Precautions to be taken in handling and storing: Store inside at a temperature of 60° - 100° F. Do not allow product to freeze.

Other precautions: None

### Transportation Data:

D.O.T. Hazard Class: Unregulated

Rev. 10\_2012

# Forbo 660 A

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 05/06/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** forbo 660 A

#### Intended Use of the Product

Adhesive

#### Name, Address, and Telephone of the Responsible Party

Forbo Linoleum, Inc.  
Humboldt Industrial Park  
PO Box 667  
800-842-7839

#### Manufacturer

Helmitin Inc.  
11110 Airport Road  
Olive Branch, MS 38654  
Phone: 877.823.2624  
www.helmitinadhesives.com

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Repr. 2 H361

Aquatic Acute 3 H402

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility or the unborn child.  
H402 - Harmful to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US)

: P261 - Avoid breathing dust, mist, spray, vapors.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, and protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.



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P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer )	(CAS No) 102900-03-8	10 - 30
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	10 - 30
Alkyl (C12-14) glycidyl ether	(CAS No) 68609-97-2	5 - 10
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	1 - 5
Phenol, 4-nonyl-, branched	(CAS No) 84852-15-3	1 - 5
Quartz*	(CAS No) 14808-60-7	0.1 - 1

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

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**Reactivity:** Hazardous reactions will not occur under normal conditions.

### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (dust, vapor, mist, spray).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### Specific End Use(s)

No use specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Quartz (14808-60-7)		
Mexico	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)

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<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Beige Paste
Odor	: Low Odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: 0 °C (32° F)
Boiling Point	: 204 - 218 °C (399.2 - 424.4 °F)
Flash Point	: > 93 °C (200 °F) Tag Closed Cup
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.4
Solubility	: Not available

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<b>Partition Coefficient: N-Octanol/Water</b>	:	Not available
<b>Viscosity</b>	:	Approximately 55,000 cps
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	:	Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	:	Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Phenol, 4-nonyl-, branched (84852-15-3)	
LD50 Oral Rat	580 mg/kg
LD50 Dermal Rabbit	2031 mg/kg
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

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### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

Phenol, 4-nonyl-, branched (84852-15-3)	
LC50 Fish 1	0.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	0.1351 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

**Persistence and Degradability** Not available

#### Bioaccumulative Potential

Phenol, 4-nonyl-, branched (84852-15-3)	
BCF Fish 1	271

**Mobility in Soil** Not available

#### Other Adverse Effects

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

#### In Accordance with IMDG

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(bisphenol A-(epichlorhydrin); epoxy resin)  
**Hazard Class** : 9  
**Identification Number** : UN3082  
**Packing Group** : III  
**Label Codes** : 9  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-F  
**Marine pollutant** : Marine pollutant



#### In Accordance with IATA

**Proper Shipping Name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A-(epichlorhydrin); epoxy resin)  
**Packing Group** : III  
**Identification Number** : UN3082  
**Hazard Class** : 9  
**Label Codes** : 9  
**ERG Code (IATA)** : 9L



**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard Immediate (acute) health hazard
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<b>Quartz (14808-60-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/06/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

#### Party Responsible for the Preparation of This Document

Helmitin Inc.  
99 Shorncliffe Road  
Toronto, ON, M8Z 5K7  
T: 877-823-2624  
[whmis@helmitinadhesives.com](mailto:whmis@helmitinadhesives.com)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

# FORBO 660 B

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 05/06/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** FORBO 660 B

#### Intended Use of the Product

**Adhesive**

#### Name, Address, and Telephone of the Responsible Party

Forbo Linoleum, Inc.  
Humboldt Industrial Park  
PO Box 667  
800-842-7839

#### **Manufacturer**

Helmitin Inc.  
11110 Airport Road  
Olive Branch, MS 38654  
Phone: 877.823.2624  
www.helmitinadhesives.com

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Acute Tox. 3 (Oral) H301  
Acute Tox. 3 (Dermal) H311  
Skin Corr. 1B H314  
Eye Dam. 1 H318  
Skin Sens. 1 H317  
Aquatic Acute 2 H401  
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H301+H311 - Toxic if swallowed or in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H401 - Toxic to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P260 - Do not breathe vapors, spray, mist.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.



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P280 - Wear protective gloves, protective clothing, face protection, eye protection.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Other Hazards

May be corrosive to respiratory tract.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)
Trimethylolpropane Polyoxypropylene Triamine	(CAS No) 39423-51-3	15 - 40
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin)	(CAS No) 68082-29-1	15 - 40
2,4,6-Tri(dimethylaminomethyl)phenol	(CAS No) 90-72-2	15 - 40
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	5 - 10
Bis[(dimethylamino)methyl]phenol	(CAS No) 71074-89-0	1 - 5
Triethylenetetramine	(CAS No) 112-24-3	1 - 5
Octylphenol ethoxylate	(CAS No) 9036-19-5	0.5 - 1.5

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 60 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if swallowed. Toxic in contact with skin.

**Inhalation:** May be corrosive to the respiratory tract. May cause respiratory irritation.

**Skin Contact:** Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None expected under normal conditions of use.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

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### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions. Thermal decomposition generates corrosive vapors.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

#### Specific End Use(s)

No use is specified.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Triethylenetetramine (112-24-3)		
Ontario	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Ontario	OEL TWA (ppm)	0.5 ppm

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### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Dark Pourable Liquid
Odor	: Amine Odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: 0 °C (32 °F)
Boiling Point	: > 126 °C (260 °F)
Flash Point	: > 93 °C (200 °F) (Tag Closed Cup)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.0
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 600 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions. Thermal decomposition generates corrosive vapors.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

#### LD50 and LC50 Data:

ATE US (oral)	293.18 mg/kg body weight
ATE US (dermal)	759.23 mg/kg body weight

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May be corrosive to the respiratory tract. May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None expected under normal conditions of use.

#### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Trimethylolpropane Polyoxypropylene Triamine (39423-51-3)</b>	
ATE US (oral)	100.00 mg/kg body weight
ATE US (dermal)	300.00 mg/kg body weight
<b>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin) (68082-29-1)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Triethylenetetramine (112-24-3)</b>	
LD50 Oral Rat	2500 mg/kg
LD50 Dermal Rabbit	550 mg/kg
<b>2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)</b>	
LD50 Oral Rat	1000 mg/kg
LD50 Dermal Rat	1280 mg/kg
<b>Bis[(dimethylamino)methyl]phenol (71074-89-0)</b>	
ATE US (oral)	500.00 mg/kg body weight
ATE US (dermal)	1,100.00 mg/kg body weight

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<b>Octylphenol ethoxylate (9036-19-5)</b>	
LD50 Oral Rat	1700 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

<b>Triethylenetetramine (112-24-3)</b>	
LC50 Fish 1	570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
EC50 Daphnia 1	31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
<b>Octylphenol ethoxylate (9036-19-5)</b>	
LC50 Fish 1	7.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	8.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
ErC50 (algae)	0.21 mg/l (Exposure time: 96 h - Species: Selenastrum Green Algae)

**Persistence and Degradability** Not available

### Bioaccumulative Potential

<b>Triethylenetetramine (112-24-3)</b>	
BCF Fish 1	(no bioaccumulation expected)
Log Pow	-1.4

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

**Proper Shipping Name** : CORROSIVE LIQUIDS, TOXIC, N.O.S. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Hazard Class** : 8

**Identification Number** : UN2922

**Label Codes** : 8,6.1

**Packing Group** : II

**ERG Number** : 154



### In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Hazard Class** : 8

**Identification Number** : UN2922

**Packing Group** : II

**Label Codes** : 8,6.1

**EmS-No. (Fire)** : F-A

**EmS-No. (Spillage)** : S-B



### In Accordance with IATA

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**Proper Shipping Name** : Corrosive liquid, toxic, n.o.s. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Packing Group** : II

**Identification Number** : UN2922

**Hazard Class** : 8

**Label Codes** : 8,6.1

**ERG Code (IATA)** : 8P



### In Accordance with TDG

**Proper Shipping Name** : CORROSIVE LIQUID, TOXIC, N.O.S. (Contains Trimethylolpropane Polyoxypropylene Triamine and 2,4,6-Tri(dimethylaminomethyl)phenol)

**Packing Group** : II

**Hazard Class** : 8

**Identification Number** : UN2922

**Label Codes** : 8,6.1



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard
<b>Trimethylolpropane Polyoxypropylene Triamine (39423-51-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin) (68082-29-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Triethylenetetramine (112-24-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Octylphenol ethoxylate (9036-19-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Triethylenetetramine (112-24-3)</b>
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

### Canadian Regulations

WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Trimethylolpropane Polyoxypropylene Triamine (39423-51-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

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WHMIS Classification	Class E - Corrosive Material Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
<b>Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine (Polyamide Resin) (68082-29-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
<b>Triethylenetetramine (112-24-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 0.1 %	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
<b>2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
<b>Bis[(dimethylamino)methyl]phenol (71074-89-0)</b>	
WHMIS Classification	Class E - Corrosive Material
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Octylphenol ethoxylate (9036-19-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/06/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

#### Party Responsible for the Preparation of This Document

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2



Version	Revision Date:	MSDS Number:	Date of last issue: 05/28/2015
2.0	06/11/2015	F000000897	Date of first issue: 05/21/2015

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**SECTION 1. IDENTIFICATION**

Product name : FORBO SUSTAIN 885-M

Product code : F000000897

**Manufacturer or supplier's details**

Company name of supplier : Forbo Flooring NA

Address : Humbolt Industrial Park  
8 Maplewood Drive  
Hazelton PA 18202

Telephone : (800) 842-7839

Telefax :

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:  
42.2982 %

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Contains no hazardous ingredients according to GHS

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**SECTION 4. FIRST AID MEASURES**If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

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In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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Do not let product enter drains.  
 Do not allow contact with soil, surface or ground water.  
 Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
 Sweep up and shovel.  
 Pick up and transfer to properly labelled containers.  
 Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
 Handle with care.  
 Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
 Keep in properly labelled containers.  
 Observe label precautions.  
 Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
 Keep away from food and drink.  
 Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
 Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.  
 When workers are facing concentrations above the exposure

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limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.

Hand protection	
Material	: Impervious gloves
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles Face-shield
Skin and body protection	: Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.
Protective measures	: Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	: Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: paste
Colour	: white
Odour	: mild, characteristic
pH	: 8.0 - 9.0
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: similar to water
Density	: 1,080 - 1,200 kg/m <sup>3</sup>

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Solubility(ies)  
 Water solubility : insoluble

Solubility in other solvents : Not applicable

Partition coefficient: n-octanol/water : No data available

Explosive properties : Not applicable

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.

Incompatible materials : Oxidizing agents  
 Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

**Skin corrosion/irritation****Product:**

Remarks: This information is not available.

**Serious eye damage/eye irritation****Product:**

Remarks: This information is not available.

**Respiratory or skin sensitisation****Product:**

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Remarks: This information is not available.

**Carcinogenicity****OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulation**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

**SARA 302**

: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

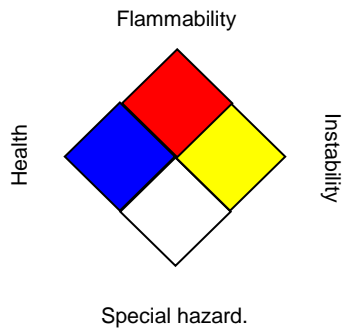
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**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 06/11/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN





## TECHNICAL DATA SHEET

### Gerbert 2525

#### Premium Hard-Setting Adhesive for Solid Vinyl

##### DESCRIPTION

Gerbert 2525 is a proprietary, hard-set, wet-lay and transitional pressure sensitive adhesive designed specifically for installing homogeneous and heterogeneous solid vinyl flooring. With its strong, durable, moisture-resistant and alkali-resistant bond, it is ideal for commercial and institutional applications. Gerbert 2525 has an excellent open time, develops strength quickly, performs well under rolling loads and resists indentation. Its low-odor, low-VOC formulation makes it ideal for use in occupied buildings such as hospitals and medical centers. Gerbert 2525 provides aggressive tack and superior bond for solid vinyl tile and plank. As a hard-setting adhesive, it resists shrinkage and aids in keeping seams and butt joints tight and together.

##### Features and Benefits

- Hard-setting for the best in indentation and shrinkage resistance
- Plasticizer migration resistant for use with all solid vinyl flooring
- Easy trowelability for quick installation
- Low-odor formula for use in occupied buildings
- CRI Green Label Plus certified

##### USE

For the installation of homogeneous sheet vinyl (solid PVC sheet flooring), luxury vinyl tile (solid PVC tile) and vinyl plank

- Interior residential (rental apartments, condominiums, houses)
- Interior commercial (office buildings, cafeterias)
- Interior heavy commercial (shopping malls, grocery stores, department stores)
- Interior institutional (hospitals, schools, universities, libraries, government buildings)

##### SUBFLOOR PREPARATION

The subfloor must be structurally sound, flat, smooth, dry and clean. Free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.

##### SUITABLE SUBSTRATES

- Exterior-grade plywood, Group 1, CC type
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete and properly prepared cement terrazzo
- Cement-based self-leveling underlayments and patching compounds
- Embossing levelers applied over existing, properly prepared and fully bonded ceramic tile and fully bonded vinyl composition tile (VCT) – one layer only
- Properly prepared and primed gypsum underlayments that meet the ASTM F2419 requirements for compressive strength
- Radiant-heat systems that have been properly installed

Consult Gerbert's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

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Deerfield Beach, FL 33442  
(954) 246-8888



## TECHNICAL DATA SHEET

### Gerbert 2525

#### Premium Hard-Setting Adhesive for Solid Vinyl

##### APPLICATION

Condition adhesive, tile or other materials and subfloor at 65°F to 85°F (18°C to 29°C) for 48 hours prior to, during and 48 hours after installation.

Read all installation instructions thoroughly before installation.

Select the appropriately notched trowel, (see "Trowel Specifications and Spread Rate" section).

Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.

For working time and flash time, refer to "Application Table."

Install flooring per the flooring Gerbert's instructions.

Roll the flooring with the recommended-weight roller across the width and length of the flooring surface.

##### CLEAN UP

Promptly clean any adhesive from the flooring material's surface with water while the adhesive is still fresh/wet.

Clean tools with water while the adhesive is still fresh/wet.

Use mineral spirits once dried. Use caution with mineral spirits, which may be harmful to some materials.

##### SHELF LIFE

2 years when stored in original packaging at 73°F (23°C)

##### COVERAGE

Approximately 185 to 245 sq. ft. per gallon (4,53 to 6,0 m<sup>2</sup> per L) with recommended trowel size.

##### PROTECT FROM FREEZING

Freeze/thaw stable up 5 cycles at 0°F (-18°C). Store at room temperature.

##### LIMITATIONS

Do not install over any substrates containing asbestos.

For interior installations only

Do not use to install nonporous floor coverings over nonporous surfaces.

Do not apply over any adhesive residues including cutback adhesive.

Do not install when the moisture vapor emission rate (MVER) exceeds 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).

Do not install when relative humidity of concrete slabs exceeds 80% (ASTM F2170).

Use only when the substrate temperature is between 65°F and 90°F (18°C and 32°C).

pH readings should be a maximum 10.

##### MIXING

Ready to use; no mixing required

Note: Choose all appropriate safety equipment before use. Refer to Safety Data Sheet (SDS) for more information.

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**TECHNICAL DATA SHEET**

**Gerbert 2525**




**Premium Hard-Setting Adhesive for Solid Vinyl**

**Product Properties**

Polymer type:	Vinyl acrylic
Percent solids:	55% to 65%
VOCs (Rule # 1168 of California's SCAQMD):	Less than 34 g/L
pH:	7 to 9
Trowelability:	Light
Density:	8.3 lbs. per U.S. gal. (3.77 kg per 3.79 L)
Consistency:	Creamy
Color:	Off-white
Shelf life:	2 years when stored in original packaging at 73°F (23°C)
Storage conditions:	Protect from Freezing
Flash point (ASTM D56):	> 212°F (100°C)

**NOTE:** Protect from traffic 24 hours for light traffic, 72 hours for heavy traffic. Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

**Approximate Product Coverage**

Luxury Vinyl Tile, Luxury Vinyl Plank, QT Rubber Underlayment	<p>1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm)</p>  <p>(as specified by manufacturer)</p>	<p>100 to 125 sq. ft./U.S. gal (2.45 to 3.10 m<sup>2</sup> per L)</p>
Luxury Vinyl Tile, Luxury Vinyl Plank, QT Rubber Underlayment	<p>1/32" x 1/16" x 1/32" (0.8 x 1.6 x 0.8 mm)</p>  <p>(as specified by manufacturer)</p>	<p>150 to 200 sq. ft./U.S. gal (3.7 to 4.9 m<sup>2</sup> per L)</p>
2 mm Vinyl Sheet flooring	<p>1/16" x 1/16" x 1/16" (1.6 x 1.6 x 1.6 mm)</p>  <p>(as specified by manufacturer)</p>	<p>125 to 150 sq. ft./U.S. gal (3.10 to 3.7 m<sup>2</sup> per L)</p>
<p><i>† Coverage rates shown here are for estimating purposes only. Actual jobsite coverage may vary according by application method, substrate, substrate conditions, trowel angle, and actual</i></p>		

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TECHNICAL DATA SHEET

Gerbert 2525

Premium Hard-Setting Adhesive for Solid Vinyl

thickness applied.

Table with 3 columns: Flooring Type, \*Flash time, and \*\*Working time. Rows include Solid vinyl sheet, Vinyl tile, and Vinyl plank.

\*Flash time is the waiting time required before installing flooring.
\*\*Working time is the window time for the adhesive to accept flooring

Note: Flash time and working time may vary based on temperature, humidity, subfloor porosity, trowel size and jobsite conditions.

\* Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.

Industry Standards and Approvals

- RFCI IP #1, Recommended Installation Practice for Homogeneous Sheet Flooring
LEED (Version 3.0) Points Contribution
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants ..... 1 point

Statement of Responsibility

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. Any claim shall be deemed waived unless made in writing to us within fifteen (15) days from date it was, or reasonably should have been, discovered.

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**SECTION 1. IDENTIFICATION**

Product name : GOLDSTIX

Product code : F000000899

**Manufacturer or supplier's details**

Company name of supplier : XL Brands, LLC

Address : 198 Nexus Drive  
Dalton GA 30721

Telephone : (800) 367-4583

Telefax : (800) 547-0098

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

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**SECTION 4. FIRST AID MEASURES**If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

---

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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Use NIOSH approved respiratory protection.

## Hand protection

## Material

: Impervious gloves

## Eye protection

: Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

## Skin and body protection

: Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

## Protective measures

: Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

: Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: paste
Colour	: tan
Odour	: mild, characteristic
pH	: 8.0 - 9.0
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: No data available
Density	: 1,130 - 1,150 kg/m <sup>3</sup>
Solubility(ies)	



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Water solubility	:	insoluble
Solubility in other solvents	:	Not applicable
Partition coefficient: n-octanol/water	:	Not applicable
Explosive properties	:	Not applicable

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Protect from frost.
Incompatible materials	:	Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.

**Skin corrosion/irritation****Product:**

Remarks: This information is not available.

**Serious eye damage/eye irritation****Product:**

Remarks: This information is not available.

**Respiratory or skin sensitisation****Product:**

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Remarks: This information is not available.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other :  
aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

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Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulation

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

#### 49 CFR

Not regulated as a dangerous good

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## SECTION 15. REGULATORY INFORMATION

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

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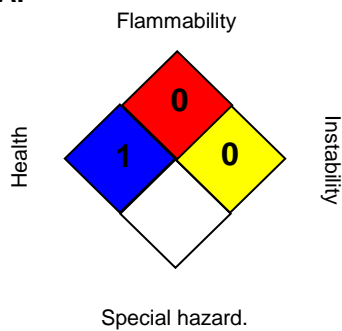
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**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/10/2015

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## SAFETY DATA SHEET

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Name of the Product: Groundtack  
 Recommended Use: No use is specified.  
 Company: Staticworx  
 PO Box 590069  
 Newton, MA 02459

Telephone Number for Information: (617) 923-2000  
 Emergency Phone Number: 800-255-3924 or Local Poison Control Center

### SECTION 2: HAZARD(S) IDENTIFICATION

Classification (GHS-US): Not classified  
 Label Elements: GHS-US Labeling: No labeling applicable  
 Hazard Statement: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.  
 Unknown Acute Toxicity (GHS-US): Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% (w/w)
Cellulose*	9004-34-6	1 - 5

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

### SECTION 4: FIRST AID MEASURES

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Skin Contact:** Rinse immediately with plenty of water. Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if redness, pain, or irritation occurs.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.  
**Skin Contact:** Prolonged exposure may cause skin irritation.  
**Eye Contact:** Prolonged exposure to liquid may cause a mild irritation.  
**Ingestion:** Ingestion is likely to be harmful or have adverse effects.  
**Inhalation:** Prolonged exposure may cause irritation.  
**Chronic Symptoms:** None expected under normal conditions of use.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIRE FIGHTING MEASURES

#### Extinguishing Media



Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.  
 Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Not flammable.  
 Explosion Hazard: Product is not explosive.  
 Reactivity: Hazardous reactions will not occur under normal conditions.

**Advice for Firefighters**

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.  
 Firefighting Instructions: Use water spray or fog for cooling exposed containers.  
 Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.  
 Hazardous Combustion Products: None known.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).  
 For Non-Emergency Personnel: Protective Equipment: Use appropriate personal protection equipment (PPE).  
 Emergency Procedures: Evacuate unnecessary personnel.  
 For Emergency Personnel: Protective Equipment: Equip cleanup crew with proper protection.  
 Emergency Procedures: Stop leak if safe to do so. Ventilate area.  
 Environmental Precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.  
 Methods For Cleaning Up: Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.  
 Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
 Reference to Other Sections: See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

**SECTION 7: HANDLING AND STORAGE**

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  
 Technical Measures: Comply with applicable regulations.  
 Proper Storage: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.  
 Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.  
 Specific End Use(s): No use is specified.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

**Cellulose (9004-34-6)**

USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable fraction)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

Nunavut	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable mass) 10 mg/m <sup>3</sup> (total mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable mass) 10 mg/m <sup>3</sup> (total mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	30 mppcf 10 mg/m <sup>3</sup>

Appropriate Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
Individual Protection Measures:	Protective goggles. Gloves. Protective clothing.
Materials for Protective Clothing:	Chemically resistant materials and fabrics.
Hand Protection:	Wear chemically resistant protective gloves.
Eye Protection:	Chemical goggles or safety glasses.
Skin and Body Protection:	Wear suitable protective clothing.
Respiratory Protection:	Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Environmental Exposure Controls:	Do not allow the product to be released into the environment.
Consumer Exposure Controls:	Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL PROPERTIES

Appearance	Not available
Odor	Not available
Odor Threshold	Not available
Physical State	Liquid
pH	6.0-8.0
Melting Point	Not available
Freezing Point	Not available
Boiling Point	>100°C (212°F)
Flash Point (TCC)	> 93 °C (> 200 °F) (Setaflash method)
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Flammability (solid, gas)	Not available
Lower Flammable Limit	Not available
Upper Flammable Limit	Not available
Vapor Pressure (mmHg)	Not available
Vapor Density (air=1) Relative Vapor Density at 20 °C	Not available
Relative Density	Not available
Specific Gravity	Not available
Solubility	Not available
Viscosity	Not available
Partition Coefficient: N-Octanol/Water	Not available
Explosion Data – Sensitivity to Mechanical Impact	Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	Not expected to present an explosion hazard due to static discharge.

## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Hazardous reactions will not occur under normal conditions.
Chemical Stability:	Stable under recommended handling and storage conditions (see section 7).
Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures. Incompatible materials.
Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition Products:	Carbon oxides (CO, CO <sub>2</sub> ).
Hazardous Reactions:	Hazardous polymerization will not occur.



**SECTION 11: TOXICOLOGICAL INFORMATION**

**Information on Toxicological Effects - Product**

Acute Toxicity:	Not classified
LD50 and LC50 Data:	Not available
Skin Corrosion/Irritation:	Not classified
pH:	6 - 8
Serious Eye Damage/Irritation:	Not classified
pH:	6 - 8
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not classified
Cardnogenicity:	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Aspiration Hazard:	Not classified
Symptoms/Injuries After Inhalation:	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact:	Prolonged exposure may cause irritation.
Symptoms/Injuries After Eye Contact:	Prolonged exposure may cause irritation.
Symptoms/Injuries After Ingestion:	Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms:	None expected under normal conditions of use.

**Information on Toxicological Effects - Ingredient(s)**

**LD50 and LC50 Data:**

Cellulose (9004-34-6)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5800 mg/m <sup>3</sup> (Exposure time: 4 h)

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity	No additional information available
Persistence and Degradability	Not available
Bioaccumulative	Potential
obility in Soil	Not available
Other Adverse Effects Other Information:	Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Ecology – Waste Materials:	Avoid release to the environment.

**SECTION 14: TRANSPORTATION INFORMATION**

In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
In Accordance with TDG	Not regulated for transport

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations**

Cellulose (9004-34-6)	Listed on the United States TSCA (Toxic Substances Control Act) inventory
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**US State Regulations**

Cellulose (9004-34-6)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

**Canadian Regulations**

Cellulose (9004-34-6)

WHMIS Classification

Listed on the Canadian DSL (Domestic Substances List)

Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

**SECTION 16: OTHER INFORMATION**

Revision Date:

05/01/2015

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive**

Version 1.2	Revision Date: 06/04/2015	MSDS Number: F000000724	Date of last issue: 05/28/2015 Date of first issue: 05/21/2015
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**SECTION 1. IDENTIFICATION**

Product name : Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive  
Product code : F000000724

**Manufacturer or supplier's details**

Company name of supplier : Bentley Mills  
Address : 14641 East Don Julian Road  
City of Industry CA 91746  
Telephone : (800) 423-4709  
Telefax :  
Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

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**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

## Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive

Version 1.2	Revision Date: 06/04/2015	MSDS Number: F000000724	Date of last issue: 05/28/2015 Date of first issue: 05/21/2015
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If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

## Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive

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Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
None				

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive

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Use NIOSH approved respiratory protection.

Hand protection Material	: Impervious gloves
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles Face-shield
Skin and body protection	: Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.
Protective measures	: Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	: Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: grey
Odour	: slight
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Solubility(ies) Water solubility	: dispersible

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
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## Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive

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Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Protect from frost.
Incompatible materials	: Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	: Remarks: This information is not available.
Acute inhalation toxicity	: Remarks: This information is not available.
Acute dermal toxicity	: Remarks: This information is not available.

#### Skin corrosion/irritation

##### Product:

Remarks: This information is not available.

#### Serious eye damage/eye irritation

##### Product:

Remarks: This information is not available.

#### Respiratory or skin sensitisation

##### Product:

Remarks: This information is not available.

#### Carcinogenicity

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

##### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Healthbond 2300 Ultra Green Plus Carpet Tile  
Adhesive**

Version	Revision Date:	MSDS Number:	Date of last issue: 05/28/2015
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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae	:	Remarks: No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated packaging	:	Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Healthbond 2300 Ultra Green Plus Carpet Tile Adhesive**

Version 1.2      Revision Date: 06/04/2015      MSDS Number: F000000724      Date of last issue: 05/28/2015  
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Not applicable for product as supplied.

**National Regulations**

**49 CFR**  
 Not regulated as a dangerous good

**49 CFR**  
 Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

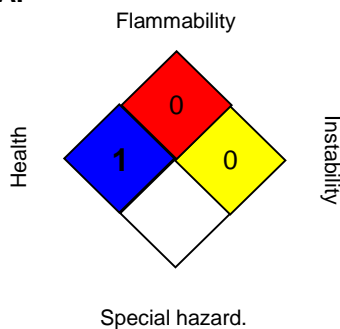
**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 06/04/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a



**Healthbond 2300 Ultra Green Plus Carpet Tile  
Adhesive**

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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

# Product or Chemical Name

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 2/15 /2015 Date of issue: 2 / 15 /2015

Version: 2 –GHS format

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

Product Form: Paste

Product Name: INFINITY PRESSURE SENSITIVE ADHESIVE

#### 1.2. Intended Use of the Product - Adhesive

Use of the substance/mixture: Adhesive

#### 1.3. Name, Address, and Telephone of the Responsible Party

Company Mannington Mills, INC.

P.O. Box 30 – Route 45 // 75 Mannington Mills  
Road // Salem, New Jersey 08079 U.S.A.

#### 1.4. Emergency Telephone Number

Emergency Number : Within the U.S. 1-800-424-9300

Outside the U.S. 703-527-3887

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

Classification (GHS-US) - Product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200

Full text of H-phrases: see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

Hazard Pictograms (GHS-US) - none :

Signal Word (GHS-US) - none :

Hazard Statements (GHS-US) - none :

Precautionary Statements (GHS-US) none :

#### 2.3. Other Hazards - none

#### 2.4. Unknown Acute Toxicity (GHS-US)

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Name	Product Identifier	%	Classification (GHS-US)
N/A			

#### 3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Water	7732-18-5	25-50	none

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

First-aid Measures General:

First-aid Measures After Inhalation: Supply fresh air. Consult Doctor.

First-aid Measures After Skin Contact: Wipe excess from skin. Wash with soap and water.

First-aid Measures After Eye Contact: Rinse eye for 20 minutes. If eye becomes irritated obtain medical treatment.

First-aid Measures After Ingestion: Rinse mouth. DO NOT induce vomiting. Obtain medical treatment.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries:

Symptoms/Injuries After Inhalation: None when used as recommended.

# Product or Chemical Name

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**Symptoms/Injuries After Skin Contact:** May irritate.  
**Symptoms/Injuries After Eye Contact:** May irritate.  
**Symptoms/Injuries After Ingestion:** None for small quantities ingested.  
**Chronic Symptoms:**

## 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Carbon Dioxide, Chemical Powder, Water Spray.

**Unsuitable Extinguishing Media:** Water

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** None

**Explosion Hazard:** None

**Reactivity:** None

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** None

**Firefighting Instructions:** Cool fire exposed containers with water spray.

**Protection During Firefighting:** Wear protective equipment. Keep unprotected persons away.

**Other Information:** None

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Keep persons away from spill area

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Gloves, glasses or goggles, protective work clothing.

**Emergency Procedures:** Contain and absorb spilled material. Ensure adequate ventilation. Dispose in accordance with regulations for non hazardous material.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Gloves, glasses or goggles, protective work clothing.

**Emergency Procedures:** Contain and absorb spilled material. Ensure adequate ventilation. Dispose in accordance with regulations for non hazardous material.

### 6.2. Environmental Precautions - Keep out of the sewer system.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Use sand or booms to contain.

**Methods for Cleaning Up:** Absorb [sand, clay, sawdust] and place in suitable container for disposal of non hazardous liquids.

### 6.4. Reference to Other Sections

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:**

**Hygiene Measures:** Keep away from food and drink, avoid contact with skin and eyes, wash thoroughly after use, and wear protective equipment.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Freeze thaw stable up to five cycles at 20F.

**Storage Conditions:** Store at room temperature. Avoid freezing. Keep containers closed when not in use.

**Incompatible Products:** oxidizers

**Storage Temperature:** Room temperature

### 7.3. Specific End Use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

### 8.2. Exposure Controls

**Appropriate Engineering Controls – Usual :**  
precautionary measures for safe handling of chemicals.

**Personal Protective Equipment – Safety :**  
glasses with side-shields.

**Materials for Protective Clothing – Work :**  
clothing.

# Product or Chemical Name

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Hand Protection** – Protective gloves. :  
**Eye Protection** – Protective eyewear. :  
**Skin and Body Protection** – Work clothing :  
**Respiratory Protection**- Not required with :  
adequate ventilation.  
**Environmental Exposure Controls** - NA :  
**Consumer Exposure Controls** - NA :

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State** – White Paste :  
**Appearance** – Solid – Viscous Liquid :  
**Odor** - Characteristic :  
**Odor Threshold** - NA :  
**pH** -7.2 :  
**Evaporation Rate** - NA :  
**Melting Point** - NA :  
**Freezing Point**- NA :  
**Boiling Point** - @212F :  
**Flash Point** - NA :  
**Auto-ignition Temperature** - NA :  
**Decomposition Temperature** - NA :  
**Flammability** (solid, gas) - NA :  
**Vapor Pressure** - NA :  
**Relative Vapor Density at 20 °C** - NA :  
**Relative Density** - NA :  
**Specific Gravity** – 1.02 :  
**Specific gravity / density** :  
**Solubility** – Difficult to mix with water. :  
**Partition Coefficient: N-Octanol/Water** - NA :  
**Viscosity** - NA :  
**Lower Flammable Limit** - NA :  
**Upper Flammable Limit** - NA :

### 9.2. Other Information

**VOC content** – California VOC compliance :  
Solvent FREE Product –  
SCAQMD Rule 1168 : Compliant  
SCAQMD Rule 443.1 – Grams per Liter of  
Material, <1 gram/Liter. Grams per liter of  
Coating, <1 gram/Liter.

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Not reactive  
**10.2. Chemical Stability:** Stable  
**10.3. Possibility of Hazardous Reactions:** None known  
**10.4. Conditions to Avoid:** Avoid freezing  
**10.5. Incompatible Materials:** Oxidizers  
**10.6. Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide, nitrogen oxides, hydrocarbons

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:**

**Skin Corrosion/Irritation:** May irritate

**Serious Eye Damage/Irritation:** May irritate

**Respiratory or Skin Sensitization:** Not a sensitizer

**Germ Cell Mutagenicity:**

**Carcinogenicity:** Not a carcinogen

# Product or Chemical Name

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Reproductive Toxicity:** None known

**Specific Target Organ Toxicity (Single Exposure):** None

**Specific Target Organ Toxicity (Repeated Exposure):** None

**Aspiration Hazard:** Avoid breathing aerosols

**Symptoms/Injuries After Inhalation:** None

**Symptoms/Injuries After Skin Contact:** Minor irritation, redness, on prolonged exposure or repeated exposure.

**Symptoms/Injuries After Eye Contact:** Minor irritation, redness, on prolonged exposure or repeated exposure.

**Symptoms/Injuries After Ingestion:**

**Chronic Symptoms:**

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity - not available**

**12.2. Persistence and Degradability - not available**

Persistence and Degradability	
-------------------------------	--

**12.3. Bioaccumulative Potential - not available**

**12.4. Mobility in Soil - not available**

**12.5. Other Adverse Effects - NA**

**Other Information :**

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods - Fuel blending, re-cycle, incineration.**

**Sewage Disposal Recommendations:** Per local regulations

**Waste Disposal Recommendations:** Not a hazardous waste

**Additional Information:** NA

## SECTION 14: TRANSPORT INFORMATION

### 14.1. In Accordance with DOT

**Proper Shipping Name :** Not regulated

**Hazard Class :**

**Identification Number :**

**Label Codes :**

**Packing Group :**

**ERG Number :**

### 14.2. In Accordance with IMDG

**Proper Shipping Name :** Not regulated

**Hazard Class :**

**Identification Number :**

**Packing Group :**

**Label Codes :**

**EmS-No. (Fire) :**

**EmS-No. (Spillage) :**

**MFAG Number :**

### 14.3. In Accordance with IATA

**Proper Shipping Name :** Not regulated

**Packing Group :**

**Identification Number :**

**Hazard Class :**

**Label Codes :**

**ERG Code (IATA) :**

## SECTION 15: REGULATORY INFORMATION

**15.1 US Federal Regulations** all ingredients are listed on the TSCA inventory.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date 2/12/2015 :**

**Other Information :** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

# Product or Chemical Name

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## GHS Full Text Phrases:

Not required	

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)

# TAYLOR

## Safety Data Sheet

### IVC Flex-Seam Premium Seam Bond

Revision date: May 22, 2015

Version: 1

#### 1. Identification

##### IVC Flex- Seam Premium Seam Bond

Recommended use of the chemical and restriction on use: seaming fiberglass sheet goods in direct glue down installations. For indoor use only.

##### Details of the supplier of the safety data sheet

###### Company:

W.F.Taylor LLC  
11545 Pacific Avenue  
Fontana, CA 92337, USA

Telephone number: (951) 360-6677

**Emergency Telephone Number:** 1-800-535-5053

##### **Other Means of Identification**

Chemical Family: Synthetic latex blend

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#### 2. Hazards identification

According to regulation 2012 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

**Classification of the Product:**

No need for classification according to GHS criteria for this product.

**Label Elements**

This product does not require a hazard warning label in accordance with GHS criteria.

**Hazards not otherwise classified**

None known if used according to instructions. Irritation may occur when in contact with eyes and skin.

**Emergency Overview**

Caution:

May cause skin irritation if not removed after skin contact.

Use with Use with local exhaust ventilation.

Use protective equipment for eyes, skin protection.

---

**3. Composition / Information on Ingredients****According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200**

This product does not contain any components classified as hazardous under the referenced regulation.

**According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200**

<b><u>CAS number</u></b>	<b><u>Content</u></b>	<b><u>Chemical Name</u></b>
Trade Secret	50 - 60	Acrylic Latex
Trade Secret	35 - 45	Chlorinated rubber latex
7732-18-5	1 – 5	Water

---

**4. First Aid Measures****Description of First Aid measures**



**General Advice:**

Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

**If inhaled:**

Remove individual to fresh air if needed.

**If on Skin:**

Wash with mild soap and water.

**If in eyes:**

Open eyelids and flush with running water for at least 15 minutes.

**If Swallowed:**

Do not induce vomiting. Seek medical help immediately.

**Most Important symptoms and effects, both acute and delayed**

Not expected due to non- classification of the product.

**Indication of any immediate medical attention and special treatment needed**Note to physician

Treatment: Symptomatic treatment

---

**5. Fire-Fighting Measures****Extinguishing Media**

None needed in wet state. Product is water based.

Dry material will burn. Use Water spray, foam, dry powder when needed.

**Special hazards arising from the substance or mixture**

Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

Advice for fire-fighters

Wear self-contained breathing apparatus and turn out gear.

**Further Information:**

Dispose debris and contaminated clothing in accordance with regulations.

---

**6. Accidental release measures**

Further accidental release measures:

Slip hazard when spilled.

**Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid contact with skin and eyes.

**Environmental Precautions**

Do not release spilled material into natural waters.

**Methods and material for containment and cleaning up**

Remove material using absorbents. Scrape off excess and place in closed DOT approved containers for disposal.

**7. Handling and Storage**

**Precautions for Safe Handling**

Do not puncture. Keep out of the reach of children.

**Conditions for safe storage, including any incompatibilities**

Keep from freezing. Avoid extreme temperatures.

---

**8. Exposure Control/ Personal Protection**

**Advice on system design:** Maintain proper ventilation.

---

**Personal protective equipment:**

**Respiratory protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin protection:** chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye protection:** safety glasses, goggles, or face shield

**General safety and hygiene safety measures:**

Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

---

**9. Physical and Chemical Properties**

**Form:** low viscosity liquid

**Odor:** ammonia like  
**Odor threshold:** no data  
**Color:** off white  
**pH value:** 9 - 10  
**Melting point:** not applicable  
**Boiling point:** similar to water  
**Flash point:** not applicable  
**Flammability:** none flammable  
**Lower Explosion Limit:** low  
**Upper Explosion Limit:** low  
**Vapor Pressure:** low  
**Density:** 8.05 – 9.04 lbs. per gallon  
**Relative density:** 0.96 – 1.1.08 grams / cm<sup>3</sup>  
**Vapor density:** low  
**Partition Coefficient n-octanol /water (log Pow):** no data  
**Self- ignition temperature:** not applicable  
**Viscosity, dynamic:** 25,000 – 37,500 cps  
**Solubility in water:** limited  
**Miscibility in water:** miscible  
**Evaporation rate:** same as water  
**Other information:**

---

## 10. Stability and Reactivity

**Reactivity:** Stable  
**Chemical stability:** Stable  
**Possibility of hazardous reactions:** None, product is stable.  
**Conditions to avoid:** Extreme temperatures.  
**Incompatible materials:** None known  
**Hazardous decomposition products:** None known.

---

## 11. Toxicological Information

No data available  
**Primary routes of exposure:** respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

### Acute Toxicity / Effects

Acute toxicity: May cause irritation upon contact.

**Chronic Toxicity Effects**

Repeated dose toxicity: no data available

Genetic toxicity: no data available

Carcinogenicity: not carcinogenic

Reproductive toxicity: no data available

Teratogenicity: no data available

Experiences in humans

Other Information

---

**12. Ecological Information**

No data available

---

**13. Disposal Considerations**

Abide by all State, federal and local regulations

---

**14. Transport Information**

Proper Shipping name: Not applicable

Proper Hazard Class: Not hazardous

Hazard Code: None hazardous

Bill of Lading Description: **Adhesives, NOI**

---

**15. Regulatory Information:**

**Federal Regulations**

**Registration status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

**State regulations:**

**CA Prop 65:**

**Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.**

**NFPA Hazard Codes:**

**Health: 1      Fire: 0    Reactivity: 0    Special:**

**HMIS rating:**

**Health: 1      Flammability: 0      Physical hazard: 0**

---

**16. Other Information**

**SDS prepared by:** Darwin C. Regis

**SDS prepared on:** May, 22, 2015

W.F. Taylor LLC believes the data set forth herein are accurate as of the date hereof. Taylor makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

# IVC FLEX-TECH

## MATERIAL SAFETY DATA SHEET

### SECTION I IDENTIFICATION

**Manufactured For:** IVC US, Inc.  
**Address/Phone:** 101 IVC Drive  
Dalton, GA 30721  
P: 888.225.8287

**Manufactured By:** W.F. Taylor Co., Inc.  
**Address/Phone:** 11545 Pacific Ave.  
Fontana, CA 92337  
951.360.6677

**Emergency Phone No.:** 800.535.5053  
**Manufacturer's Code Identification:** 2037-4-IVC  
**Product Class:** Acrylic latex/resin blend  
**Trade Name:** IVC Flex-Tech Pressure Sensitive Adhesive  
**Date Revised:** 10/25/11

### SECTION II HAZARDOUS INGREDIENTS

**None per OSHA Regulation:** 29 CFR 1910.1200

**SARA Title III Section 313 Chemicals:** None

NFPA	HMIS
	H = 1
	F = 0
	R = 0

### SECTION III PHYSICAL DATA

**Boiling Point:** 212°F  
**Evaporation Rate/Vapor Density:** Same as water  
**Vapor Pressure:** Same as water  
**LBS/GAL:** 8.4 - 8.6  
**Percent Volatile:** 48 - 50 (by weight)  
**Odor:** Nil  
**Color:** Off White

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

**DOT Category:** Not regulated  
**Flash Point:** None  
**LEL:** N/A  
**Extinguishing Media:** Water spray, CO<sub>2</sub>, foam, dry chemical.  
**Unusual Fire and Explosion Hazards:** None known  
**Special Fire Fighting Procedures:** Use self contained-breathing apparatus and turn out gear.

[www.ivcgroup.us](http://www.ivcgroup.us)

### SECTION V HEALTH HAZARD DATA

**Inhalation:** May cause slight irritation to the upper respiratory tract.  
**Eyes:** Vapor may cause mild irritation.  
**Skin:** May cause slight irritation.  
**Ingestion:** Not a likely route of entry under proper handling conditions. May cause vomiting. Symptoms may be same as inhalation.

#### **First Aid Procedures:**

**Eyes:** Flush with water  
**Skin:** Wash with soap and water  
**Inhalation:** Remove to fresh air if needed  
**Ingestion:** If swallowed, call physician.

### SECTION VI REACTIVITY DATA

**Stability:** Stable  
**Conditions to avoid:** Avoid extreme temperatures  
**Incompatibility/Materials to avoid:** Oxidizing materials  
**Hazardous decomposition products:** Oxides of carbon, water and organic compounds of unknown structure  
**Hazardous polymerization:** Will not occur

### SECTION VII SPILL OR LEAK PROCEDURES

**Steps to Be Taken if Material is Spilled:** Keep out of sewer systems to prevent blockage due to polymer deposits. Use absorbent materials to collect and/or scrape up excess and place into closed DOT approved containers for disposal.

**Waste Disposal:** Abide by all Federal, State, and local regulations.

### SECTION VIII SPECIAL PROTECTION INFORMATION

**Ventilation:** Local exhaust. Do not use closed air-circulating system. Open windows and doors if necessary.  
**Respiratory protection:** NIOSH respirator if needed  
**Protective gloves:** Chemical resistant gloves, apron, coveralls, and boots as necessary to prevent contact  
**Eyes:** Chemical goggles or face shield.  
**Other protective equipment:** None.

### SECTION IX SPECIAL PRECAUTIONS

**Precaution for Handling and Storing:** Do not puncture. Do not take internally. If swallowed, do not induce vomiting, call Physician immediately. **KEEP OUT OF REACH OF CHILDREN**

**J+J KINETEX ADHESIVE**

**1. Material / Preparation and Company Designation**

Manufactured exclusively for:  
J+J Flooring Group  
818 J&J Drive  
Dalton GA 30721

Manufactured by:  
XL Brands LLC  
198 Nexus Drive  
Dalton GA 30721

**Emergency phone USA (CHEMTREC): 800-424-9300 (CHEMTREC INTERNATIONAL): 703-527-3887**

**Industrial Health/Spill Emergency: 800-424-9300 (Chemtrec)**  
Information phone: 706-529-2100

Date Printed: 09/26/2013  
Date Revised: N/A  
Supersedes: N/A

Usage: Industrial

**2. List / Data of Components**

Information on hazardous ingredients: No toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and/or 40 CFR 372 are present.

DESCRIPTION	CAS #	AMOUNT, %
Acrylic copolymer latex	25586-20-3	60-80
Hydrocarbon resin blend	68131-77-1	10-20
Water	8832-18-5	5-10
Polyacrylate thickener emulsion	25212-88-8	1-2
Urea	57-13-6	1-2
Preservative, active	2634-33-5	0.01
Taggant tracers	N/A	0.02

See section 16 for the full text of the Hazard symbols and phrases.

**3. Possible Hazards**

May cause irritation of the skin and eyes. May be an inhalation and ingestion hazard.  
This product is not for human consumption.

**J&J KINETEX ADHESIVE**

Page 2 of 7

**4. First Aid Measures**

Inhalation: If affected, remove to fresh air and consult medical attention from a healthcare professional.

Skin Contact: Wash with soap and water.

Eye Contact: Flash eyes immediately with plenty of water for 15 minutes, including upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a healthcare professional if irritation persists.

Ingestion: Never give anything by mouth if victim is unconscious or having convulsions; seek medical attention from a healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.

**5. Measures in Case of Fire**

Suitable extinguishing media: Chemical Foam, CO<sub>2</sub>, Water Fog

Hazardous decomposition/combustion products: Thermal decomposition should produce only normal Hydrocarbon combustion products. Products of thermal decomposition may be harmful.

Special protective equipment for fire fighters: None; this product is non-flammable in aqueous form (as supplied).

Other information: None known; non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Fire fighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing. Use water fog to cool containers exposed to extreme heat.



**J&J KINETEX ADHESIVE**

Page 3 of 7

**6. Accidental Release Procedures**

Personal precautions: Use caution to avoid slipping in wet adhesive.

Environmental precautions: Dike and contain spill for possible recovery and to prevent from entering waterways.

Methods for cleaning/taking up: Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces or absorbed onto inert material and handled as solid waste. Do not allow material into sewers, on the ground or into any body of water. Must be disposed of in accordance with all local, state, federal and international regulations.

**7. Handling and Storage**

Adhere to work practice rules established by government regulations (e.g. OSHA)

Advice on protection against fire and explosion: None known.

Storage requirements: Use reasonable care to avoid skin and eye contact. Keep containers closed when not in use. Protect containers against physical damage. Store in a cool (4°- 43°C/43° -110°F), dry, well-ventilated area inside. Do not allow product to freeze.

**8. Engineering Controls**

Exposure limits: No information available. Consult local authorities for acceptable exposure limits.

Personal protection: None necessary under normal conditions (adequate ventilation). Recommended local exhaust.

Hand protection: None needed under normal conditions. If contact is expected, wear impervious gloves.

Eye protection: If splashing is likely, wear safety glasses.

Skin and body: None needed under normal use conditions. Use reasonable care to avoid contact.

**J&J KINETEX ADHESIVE**

Page 4 of 7

**9. Physical and Chemical Data**

Form:	Water-based, viscous liquid
Color:	Beige
Odor:	Mild, characteristic
Boiling point/range:	100°C/212° F
Melting Point/range:	No information available
Flash point:	No flash
Flammability:	No information available
Autoignition temperatures:	No information available
Explosion limits:	N/A
Vapor pressure:	N/A
Weight per Gallon	8.3 typical
Solubility in water:	Insoluble
Solubility in other solvents:	No information available
pH:	8.0 - 9.0
Partition coefficient:	No information available
n-octanol/water:	No information available

**10. Stability and Reactivity Data**

Conditions to avoid:	Stable. Avoid freezing. Hazardous polymerization will not occur.
Materials to avoid:	None known.
Hazardous decomposition products:	Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

**11. Toxicological Properties**

Acute Toxicity data:	Oral LD50:	No information available
	Dermal LD50:	No information available
	Inhalation LC50:	No information available
Irritation:	Skin:	Irritant
	Eye:	Irritant
	Sensitization:	No information available
	Genotoxicity:	No information available
Other toxicological information:		No information available

**J&J KINETEX ADHESIVE**

**12. Ecological Properties**

Fish: No information available  
 Daphnia: No information available  
 Algae: 96h-EC50 (Cell count): No information available.

**13. Disposal Conditions**

Product: Do not allow material into sewers, on the ground or into any body of water. Must be disposed of in accordance with all local, state, federal and international regulations.  
 Packaging: No information available  
 Waste code number: Please refer to your specific industry in the European Waste catalog.

**14. Transport Information**

Not regulated

Land transport ADR/RID and GGVS/GGVE

ADR Class: ADR/RID packing group:  
 RID Class:  
 Hazard identification: Substance identification no.:  
 Proper shipping name: UN no.:

Marine transport IMDG/GGV See

IMDG-code class: Packing group:  
 UN no.:

EMS: Subsidiary risk:

Marine Pollutant:  
 Proper shipping name:

Air transport ICAO-TI and IATA-DGR

Class: UN no.:  
 Packing group:  
 Proper shipping name:

**J&J KINETEX ADHESIVE**

15. **Regulations**

*This section is not meant to be all-inclusive; selected regulations are represented.*

SARA 313 SECTION OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

This product does not contain substance(s) which require reporting under this statute.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA, OR SUPERFUND):

This product does not contain substance(s) listed as "Hazardous Substance" under this statute.

STATE REGULATIONS:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other re-productive harm.

CHEMICAL INVENTORY:

United States- All components of this product are on the Toxic Substance control act (TSCA) inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

Labeling in accordance with EC directives / German regulations

Labeling:

EC-no.: N/A

Symbols: N/A

R-phrases: N/A

S-phrases: S61

Water hazardous class (Germany)(WGK): Product contains a component that is Class 1, #4183 (slightly water endangering)

See section 16 for the full text of the Hazard Symbols and Phrases.

**J&J KINETEX ADHESIVE**

16. **Other Information:**

Hazardous Material Identification System (HMIS) rating/codes:

Health-1 Flammability-0 Reactivity-0 Protective Equipment-B (safety eyewear, gloves)

HMIS uses a numbering scale ranging from 0 - 4 to indicate the degree of hazard.

Values: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Extreme

An asterisk(\*) indicates chronic health hazards are associated with the chemical.

The proper protective equipment is identified with a letter corresponding to equipment listed after in parentheses.

**Legend:**

P273- Avoid release to the environment.

S61- Do not release product to the environment.

Do not handle until the Manufacturer's Safety Precautions have been read and understood. This data is up to the current level of our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which J&J Flooring Group assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

# MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc. Product: 926 Resilient Flooring Adhesive  
16910 Munn Road, Chagrin Falls, Ohio 44023  
24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

## SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: JOHNSONITE 926  
CHEMICAL FAMILY: Adhesive Compound

## SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
None required reporting				

## SECTION 3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Eyes, skin, inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause slight to moderate irritation, redness, tearing.

SKIN CONTACT: No adverse effects expected with short term, acute exposure. Repeated, extended contact may cause irritation, itching, or reddening.

INGESTION: May cause discomfort, nausea, and diarrhea to digestive tract.

INHALATION: Under normal conditions where product is properly applied no adverse effects are expected. May cause slight respiratory discomfort with extended, excessive exposure to concentrated, unventilated vapors.

CHRONIC: None known.

CARCINOGENICITY: This product contains no ingredient above the OSHA minimum reporting threshold listed as a carcinogen by IARC, NTP, or OSHA

## SECTION 4. FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes. Contact a physician if irritation occurs.

SKIN CONTACT: Wash with soap and water.

INGESTION: Do not induce vomiting, contact a physician.

INHALATION: Remove to fresh air.

## SECTION 5. FIRE-FIGHTING MEASURES

FLASH POINT (o)F: None.

FIRE-FIGHTING INSTRUCTIONS: Use protective clothing and self-contained breathing apparatus.

EXTINGUISHING MEDIA: Water fog, CO<sub>2</sub>, dry chemical, and chemical foam.

DECOMPOSITION PRODUCTS: Dried combusted material may produce CO, CO<sub>2</sub>, H<sub>2</sub>O, N<sub>x</sub>O, smoke, and other hydrocarbons.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill. Transfer spill material to secure container(s) for reuse or disposal. Dispense sand, sawdust, or vermiculite and absorb spill residue. Collect and place in waste container. Wash area thoroughly with water.

# MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc.

16910 Munn Road, Chagrin Falls, Ohio 44023

Product: 926 Resilient Flooring Adhesive

24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

## SECTION 7. HANDLING AND STORAGE

**HANDLING:** Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Keep out of the reach of children.

**STORAGE:** Store above 40o F.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE/FACE PROTECTION:** Wear safety glasses with side shields or splash goggles if contact with material is likely.

**SKIN PROTECTION:** Wear rubber gloves where contact with material is likely.

**RESPIRATORY PROTECTION:** Not normally required with good ventilation.

**ENGINEERING CONTROLS:** Normal room ventilation. Open windows and doors, use floor and ceiling fans to ventilate work area during application.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT (°F):** 212

**SPECIFIC GRAVITY (WATER = 1):** 1.1

**VAPOR PRESSURE:** Same as water.

**VAPOR DENSITY (air=1):** Same as water.

**% VOLATILE BY WEIGHT:** 40

**pH:** 9.5 - 10

**APPEARANCE AND ODOR:** Light tan colored creamy paste with slight odor.

## SECTION 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None.

## SECTION 11. TOXICOLOGICAL INFORMATION

No information.

## SECTION 12. ECOLOGICAL INFORMATION

No information.

# MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc.

Product: 926 Resilient Flooring Adhesive

16910 Munn Road, Chagrin Falls, Ohio 44023

24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

## SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations.

## SECTION 14. TRANSPORT INFORMATION

For domestic transportation purposes, this product is not designated as a hazardous material by the U.S. Department of Transportation.

## SECTION 15. REGULATORY INFORMATION

TSCA: All ingredients are listed on the TSCA inventory.

CANADIAN DSL: All ingredients within this product are listed on the Canadian DSL (Domestic Substances List).

SARA TITLE III:

Section 311 and 312 Health and Physical Hazards:

Immediate	Delayed	Fire	Pressure	Reactivity
[ ]		[ ]	[ ]	[ ] [ ]

Section 313 Reportable Chemicals: No components at or above EPA reporting thresholds.

CALIFORNIA PROPOSITION 65: No reportable listed substances.

VOLATILE ORGANIC COMPOUNDS: <0.01% or <0.0009 pounds/gallon.

HAZARDOUS AIR POLLUTANTS: None reportable.

CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:

Solvent Free Product.

SCAQMD Rule 1168: VOC compliant.

SCAQMD Rule 443.1: Grams of VOC per Liter of Material < 1 gram/liter.

Grams of VOC per Liter of Coating < 1 gram/liter.

## SECTION 16. OTHER INFORMATION

HMIS RATINGS: Health = 1 Flammability = 0

Reactivity = 0 Personal Protective Equipment = B

Hazard rating scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

Johnsonite believes the statements, technical information and recommendations contained herein are reliable. They are given without warranty or guarantee of any kind, expressed or implied.

DATE ISSUED: January 3, 2012

CONTACT: Don Styka



# JOHNSONITE 930 A

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 02/02/2015 Date of issue: 02/02/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** JOHNSONITE 930 A

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Tarkett

30000 Aurora Road

Solon, Ohio

44139

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Repr. 2 H361

Aquatic Acute 3 H402

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility or the unborn child (oral).  
H402 - Harmful to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

# JOHNSONITE 930 A

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Flammable vapors can accumulate in head space of closed systems.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	15 - 40	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer)	(CAS No) 102900-03-8	5 - 10	Eye Irrit. 2A, H319
Alkyl (C12-14) glycidyl ether	(CAS No) 68609-97-2	3 - 7	Skin Irrit. 2, H315 Skin Sens. 1, H317
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	1 - 5	Aquatic Chronic 3, H412
Quartz*	(CAS No) 14808-60-7	0.1 – 1.0	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

\*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child (oral).

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion: Not available**

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**Chronic Symptoms:** Suspected of damaging fertility or the unborn child (oral).

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Potentially violent decomposition can occur above 350 °C.

**Explosion Hazard:** Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use only outdoors or in a well-ventilated area.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

### **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** The substance will polymerize due to heating, on contact with peroxides, and under the influence of light. Heating may cause violent combustion or explosion producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Liquid - Paste
Appearance	: Thick liquid
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: > 425 °F (218 °C)
Flash Point	: > 200 °F (93 °C)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.44
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 105,000 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization may occur upon contact with heat or incompatible materials.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

**Hazardous Decomposition Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child (oral).

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

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**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child (oral).

### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Quartz (14808-60-7)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Quartz (14808-60-7)</b>	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

**Persistence and Degradability** Not available

**Bioaccumulative Potential**

**Mobility in Soil** Not available

**Other Adverse Effects** Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>JOHNSONITE 930 A</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

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<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Quartz (14808-60-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

<b>JOHNSONITE 930 A</b>	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 02/02/15

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**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

Tarkett  
30000 Aurora Road  
Solon, Ohio  
44139

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2



# JOHNSONITE 930 B

## Safety Data Sheet

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Revision Date: 02/02/2015 Date of issue: 02/02/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** JOHNSONITE 930 B

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Tarkett

30000 Aurora Road

Solon, Ohio

44139

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Acute Tox. 4 (Oral) H302

Skin Corr. 1A H314

Eye Dam. 1 H318

Skin Sens. 1 H317

Repr. 2 H361

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H361 - Suspected of damaging fertility or the unborn child.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.

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P301+P330+P331+P312 - If swallowed: rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.  
P303+P361+P353 – IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a poison center or doctor.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Cyclohexanamine, 4,4'-methylenebis-	(CAS No) 1761-71-3	3 - 7	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1B, H317 STOT RE 2, H373
Nonyl Phenol	84852-15-3	10 - 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361
Quartz*	(CAS No) 14808-60-7	0.1 – 1.0	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

\*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

\*There have been studies performed in animals that suggest Carbon Black may cause lung cancer through inhalation. However, that this hazard is not associated with other routes of exposure. Since this product is in a liquid form, the Carbon Black is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Carbon Black are not applicable to this product.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Immediately flush skin with plenty of water for at least 60 minutes. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Causes severe skin burns and eye damage. May be harmful if swallowed and enters airways. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Potentially violent decomposition can occur above 350 °C.

**Explosion Hazard:** Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use only outdoors or in a well-ventilated area.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

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**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** The substance will polymerize due to heating, on contact with incompatible materials, and under the influence of light. Heating may cause violent combustion or explosion producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

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**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Face shield. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink, or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid - Paste
Appearance	: Thick Dark Grey Paste
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: > 390 °F (198.89 °C)
Flash Point	: > 200 °F (93.33 °C)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.56
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 115,000 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

**Hazardous Decomposition Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Harmful if swallowed.

#### LD50 and LC50 Data:

JOHNSONITE 930 B	
ATE US (oral)	1,921.59 mg/kg body weight

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

#### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
LD50 Oral Rat	1000 mg/kg

Benzyl alcohol (100-51-6)	
LD50 Oral Rat	1230 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LD50 Intravenous Rat	53 mg/kg
LC50 Inhalation Rat	> 4.178 mg/l/4h

Tetraethylenepentamine (112-57-2)	
LD50 Oral Rat	2100 mg/kg
LD50 Dermal Rabbit	660 µl/kg

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability** Not available

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### Bioaccumulative Potential

#### Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)

Log Pow 2.03

#### Phenol, 4-nonyl-, branched (84852-15-3)

BCF Fish 1 271

**Mobility in Soil** Not available

**Other Adverse Effects** Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : II  
**Marine Pollutant** : Marine pollutant  
**ERG Number** : 171



### In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Packing Group** : II  
**Label Codes** : 8  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-B  
**Marine pollutant** : Marine pollutant



### In Accordance with IATA

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Packing Group** : II  
**Identification Number** : UN1760  
**Hazard Class** : 8  
**Label Codes** : 8  
**ERG Code (IATA)** : 8L



### In Accordance with TDG

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Packing Group** : II  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

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<b>JOHNSONITE 930 B</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

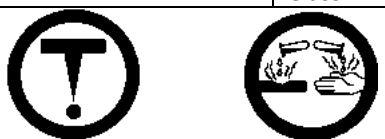
<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

<b>JOHNSONITE 930 B</b>	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
	

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	



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WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 02/02/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
Skin Sens. 1B	Skin sensitization Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H224	Extremely flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin

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H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

Tarkett

30000 Aurora Road

Solon, Ohio

44139

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

# JOHNSONITE 930 A

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 02/02/2015 Date of issue: 02/02/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** JOHNSONITE 930 A

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Tarkett

30000 Aurora Road

Solon, Ohio

44139

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Skin Sens. 1 H317

Repr. 2 H361

Aquatic Acute 3 H402

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility or the unborn child (oral).  
H402 - Harmful to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Flammable vapors can accumulate in head space of closed systems.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	15 - 40	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (Polyurethane Prepolymer)	(CAS No) 102900-03-8	5 - 10	Eye Irrit. 2A, H319
Alkyl (C12-14) glycidyl ether	(CAS No) 68609-97-2	3 - 7	Skin Irrit. 2, H315 Skin Sens. 1, H317
Propanol, oxybis-, dibenzoate	(CAS No) 27138-31-4	1 - 5	Aquatic Chronic 3, H412
Quartz*	(CAS No) 14808-60-7	0.1 – 1.0	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

\*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child (oral).

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Ingestion: Not available**

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**Chronic Symptoms:** Suspected of damaging fertility or the unborn child (oral).

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Potentially violent decomposition can occur above 350 °C.

**Explosion Hazard:** Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use only outdoors or in a well-ventilated area.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

### **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** The substance will polymerize due to heating, on contact with peroxides, and under the influence of light. Heating may cause violent combustion or explosion producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

# JOHNSONITE 930 A

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### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure, but are not required. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

# JOHNSONITE 930 A

## Safety Data Sheet

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Liquid - Paste
Appearance	: Thick liquid
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: > 425 °F (218 °C)
Flash Point	: > 200 °F (93 °C)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.44
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 105,000 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization may occur upon contact with heat or incompatible materials.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

**Hazardous Decomposition Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child (oral).

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

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**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child (oral).

### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LOEC (acute)	1 mg/l Daphnia magna
NOEC chronic crustacea	0.3 mg/l Daphnia magna

**Persistence and Degradability** Not available

**Bioaccumulative Potential**

**Mobility in Soil** Not available

**Other Adverse Effects** Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

JOHNSONITE 930 A	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Bisphenol A-epichlorohydrin polymer (25068-38-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Alkyl (C12-14) glycidyl ether (68609-97-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.



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<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Quartz (14808-60-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

<b>JOHNSONITE 930 A</b>	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Alkyl (C12-14) glycidyl ether (68609-97-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Propanol, oxybis-, dibenzoate (27138-31-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Oxirane, methyl-, polymer with oxirane, ether with 1,2-propanediol (2:1), polymer with 1,3-diisocyanatomethylbenzene, nonylphenol-blocked (102900-03-8) (Polyurethane Prepolymer)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 02/02/15

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**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

Tarkett  
30000 Aurora Road  
Solon, Ohio  
44139

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

# JOHNSONITE 930 B

## Safety Data Sheet

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Revision Date: 02/02/2015 Date of issue: 02/02/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** JOHNSONITE 930 B

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Tarkett

30000 Aurora Road

Solon, Ohio

44139

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Acute Tox. 4 (Oral) H302

Skin Corr. 1A H314

Eye Dam. 1 H318

Skin Sens. 1 H317

Repr. 2 H361

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H361 - Suspected of damaging fertility or the unborn child.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

##### **Precautionary Statements (GHS-US)**

: P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.

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P301+P330+P331+P312 - If swallowed: rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.  
P303+P361+P353 – IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a poison center or doctor.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Cyclohexanamine, 4,4'-methylenebis-	(CAS No) 1761-71-3	3 - 7	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1B, H317 STOT RE 2, H373
Nonyl Phenol	84852-15-3	10 - 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361
Quartz*	(CAS No) 14808-60-7	0.1 – 1.0	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

\*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

\*There have been studies performed in animals that suggest Carbon Black may cause lung cancer through inhalation. However, that this hazard is not associated with other routes of exposure. Since this product is in a liquid form, the Carbon Black is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Carbon Black are not applicable to this product.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Immediately flush skin with plenty of water for at least 60 minutes. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Causes severe skin burns and eye damage. May be harmful if swallowed and enters airways. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Potentially violent decomposition can occur above 350 °C.

**Explosion Hazard:** Product is not explosive but if hazardous polymerization occurs can have an oxidizing effect that could lead to fire and possible explosion.

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use only outdoors or in a well-ventilated area.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not take up in combustible material such as: saw dust or cellulosic material.

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**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

### Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** The substance will polymerize due to heating, on contact with incompatible materials, and under the influence of light. Heating may cause violent combustion or explosion producing acrid smoke. The substance may also spontaneously polymerize if it is not stabilized. Product to be handled in a closed system and under strictly controlled conditions.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

### Specific End Use(s)

No use is specified.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)
USA IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
Alberta	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	0.10 mg/m <sup>3</sup> (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
Québec	VEMP (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (respirable dust)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable fraction)
Yukon	OEL TWA (mg/m <sup>3</sup> )	300 particle/mL

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Product to be handled under strictly controlled conditions. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

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**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Face shield. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink, or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid - Paste
Appearance	: Thick Dark Grey Paste
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: > 390 °F (198.89 °C)
Flash Point	: > 200 °F (93.33 °C)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.56
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Approximately 115,000 cps
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Fluorine. Ammonium salts.

**Hazardous Decomposition Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

# JOHNSONITE 930 B

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Oral: Harmful if swallowed.

#### LD50 and LC50 Data:

JOHNSONITE 930 B	
ATE US (oral)	1,921.59 mg/kg body weight

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Causes severe skin burns. Contact may cause immediate severe irritation progressing quickly to chemical burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child.

#### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)	
LD50 Oral Rat	1000 mg/kg

Benzyl alcohol (100-51-6)	
LD50 Oral Rat	1230 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LD50 Intravenous Rat	53 mg/kg
LC50 Inhalation Rat	> 4.178 mg/l/4h

Tetraethylenepentamine (112-57-2)	
LD50 Oral Rat	2100 mg/kg
LD50 Dermal Rabbit	660 µl/kg

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Ecology - General:** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability** Not available



# JOHNSONITE 930 B

## Safety Data Sheet

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### Bioaccumulative Potential

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>	
Log Pow	2.03

<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
BCF Fish 1	271

**Mobility in Soil** Not available

**Other Adverse Effects** Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : II  
**Marine Pollutant** : Marine pollutant  
**ERG Number** : 171



### In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Packing Group** : II  
**Label Codes** : 8  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-B  
**Marine pollutant** : Marine pollutant



### In Accordance with IATA

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Packing Group** : II  
**Identification Number** : UN1760  
**Hazard Class** : 8  
**Label Codes** : 8  
**ERG Code (IATA)** : 8L



### In Accordance with TDG

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Nonylphenol, Cyclohexanamine, 4,4'-methylenebis-)  
**Packing Group** : II  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

# JOHNSONITE 930 B

## Safety Data Sheet

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<b>JOHNSONITE 930 B</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed (chronic) health hazard

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory


<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.
<b>SARA Section 313 - Emission Reporting</b>	1.0 %
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Quartz (14808-60-7)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	

### Canadian Regulations

<b>JOHNSONITE 930 B</b>	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
	

<b>Cyclohexanamine, 4,4'-methylenebis- (1761-71-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Phenol, 4-nonyl-, branched (84852-15-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Quartz (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	

# JOHNSONITE 930 B

## Safety Data Sheet

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WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 02/02/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
Skin Sens. 1B	Skin sensitization Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H224	Extremely flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin

# JOHNSONITE 930 B

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

Tarkett  
30000 Aurora Road  
Solon, Ohio  
44139

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

**KARNDEAN DRYSET LVT ADHESIVE**

Version	Revision Date:	MSDS Number:	Date of last issue: 06/01/2015
2.0	06/12/2015	F000001689	Date of first issue: 06/01/2015

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**SECTION 1. IDENTIFICATION**

Product name : KARNDEAN DRYSET LVT ADHESIVE

Product code : F000001689

**Manufacturer or supplier's details**

Company name of supplier : Karndean DesignFlooring

Address : 1100 Pontiac Court  
Export PA 15632

Telephone : (888) 226-4343

Telefax : (702) 248-8534

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

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**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

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## KARNDEAN DRYSET LVT ADHESIVE

Version 2.0	Revision Date: 06/12/2015	MSDS Number: F00001689	Date of last issue: 06/01/2015 Date of first issue: 06/01/2015
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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

## KARNDEAN DRYSET LVT ADHESIVE

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## KARNDEAN DRYSET LVT ADHESIVE

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Use NIOSH approved respiratory protection.

Hand protection Material	: Impervious gloves
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles Face-shield
Skin and body protection	: Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.
Protective measures	: Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	: Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: white
Odour	: mild, characteristic
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: No data available
Density	: No data available
Bulk density	: 8.2 lb/gal



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Solubility(ies)  
Water solubility : dispersible

Solubility in other solvents : Not applicable

Partition coefficient: n-octanol/water : No data available

Explosive properties : Not applicable

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.

Incompatible materials : Oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

**Skin corrosion/irritation****Product:**

Remarks: This information is not available.

**Serious eye damage/eye irritation****Product:**

Remarks: This information is not available.

**Respiratory or skin sensitisation****Product:**

## KARNDEAN DRYSET LVT ADHESIVE

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Remarks: This information is not available.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

**KARNDEAN DRYSET LVT ADHESIVE**

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Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

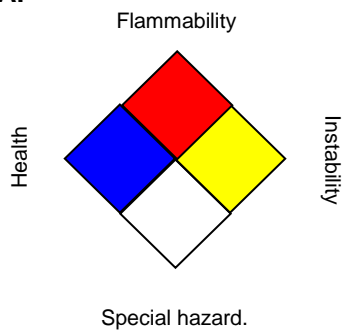
# KARNDEAN DRYSET LVT ADHESIVE

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 Date of first issue: 06/01/2015

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 06/12/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

# MATERIAL SAFETY DATA SHEET

Lonseal #400 Contact Adhesive

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MATERIAL NAME:** Lonseal #400 Contact Adhesive

**MATERIAL USE:** Sheet Vinyl Adhesive

**MANUFACTURED FOR:** Lonseal, Inc.  
**ADDRESS:** 928 E. 238<sup>th</sup> Street  
Carson, CA 90745  
(310) 830-7111

**DATE PRINTED:** 7/20/2012  
**DATE REVISED:** 7/20/2012  
**PREPARED BY:** E. Neihouse

**24 HOUR EMERGENCY PHONE NUMBERS:** U.S. Transportation (CHEMTREC) – (800) 424-9300

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	%	CAS	OSHA PEL	ACGIH TLV	OSHA STEL	ACGIH STEL
<i>Acetone*</i>	75	67-64-1	750 ppm	500 ppm	1000 ppm	NL†
<i>Zinc Oxide‡</i>	1	1314-13-2	10mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NL†	NL†

\* = Vapor Pressure (mm Hg @ temp.): 182.0 @ 68°F

† = Not Listed

‡ = Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

## SECTION 3: HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**Eyes:** May cause irritation with tearing.

**Ingestion:** May cause irritation and corrosion on the mouth and stomach tissues.

**Inhalation:** May cause irritation to upper respiratory tract and at higher concentrations narcosis or central nervous system (CNS) depression.

**Skin:** May cause skin irritation and dermatitis.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**Eyes:** Liquid or high vapor concentrations can be severely irritating to the eyes.

**Ingestion:** Moderate central nervous system (CNS) depression may be shown by giddiness, headache, dizziness, and nausea. If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs. Aspiration Pneumonitis may be evidenced by coughing and cyanosis.

**Inhalation:** High concentrations, or prolonged exposure to lower concentrations, may be irritating to mucous membranes and may cause central nervous system (CNS) depression.

**Skin:** Prolonged or repeated exposure may result in drying of the skin which can cause skin irritation or dermatitis.

**Skin Absorption:** May be irritating.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Skin contact may aggravate an existing dermatitis. Pre-existing eye and respiratory disorders may be aggravated.

# MATERIAL SAFETY DATA SHEET

Lonseal #400 Contact Adhesive

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## SECTION 4: FIRST AID MEASURES

---

**Eyes:** Immediately irrigate with flowing water for 15 minutes. Consult a physician.

**Ingestion:** Do not induce vomiting. If vomiting should occur spontaneously, keep victim's head below knees to prevent aspiration into lungs. Consult a physician.

**Inhalation:** Remove to fresh air. Restore breathing, if required. Consult a physician.

**Skin:** Wash off in flowing water or shower. Consult a physician.

---

## SECTION 5: FIRE FIGHTING MEASURES

---

**FLASHPOINT AND METHOD:** -4°F / TCC

**FLAMMABLE LIMITS (% BY VOLUME):**

**Upper:** 13.0

**Lower:** 2.2

**EXPLOSION DATA:** Volatile solvent constituent can readily form explosive or flammable mixtures in air. Vapors can flow along surfaces to distant ignition sources and flash back.

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, dry chemical, or alcohol foam

**FIRE FIGHTING EQUIPMENT/PROCEDURES:** Self-contained breathing apparatus and full protective clothing.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Handle as a flammable liquid. Remove all ignition sources. Soak up wet material on a non-combustible absorbent and place in a closed, metal container. Dispose of in accordance with all local, state, and federal regulations.

---

## SECTION 7: HANDLING AND STORAGE

---

**GENERAL PROCEDURES:** Store in a cool, well ventilated area away from any ignition sources and strong oxidizing agents. Keep containers tightly closed when not in use. Do not transfer to plastic containers.

**OTHER PRECAUTIONS:** Ground and bond metal containers when dispensing. No smoking in areas of use or storage. Use only non-sparking tools near wet adhesive or solvent vapors. Solvent vapor is much heavier than air, and can collect in dangerous concentrations in floor drains or low areas.

---

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

---

**EXPOSURE LIMITS:** See Section 2.

**ENGINEERING CONTROLS:** Mechanical ventilation and/or local exhaust, sufficient in pattern and volume, to meet TLV requirements and prevent explosive concentrations of solvent vapors.

---

# MATERIAL SAFETY DATA SHEET

## Lonseal #400 Contact Adhesive

---

### PERSON PROTECTIVE EQUIPMENT (PPE):

**Eyes/Face:** Use safety glasses or chemical goggles.

**Respiratory:** Atmospheric levels should be maintained below the exposure guideline. Use an approved, full face, supplied air respirator, or an approved positive pressure, self-contained breathing apparatus if these levels are exceeded.

**Skin:** Use neoprene, vinyl, or nitrile rubber gloves.

**WORK HYGIENIC PRACTICES:** Remove contaminated clothing. Wash skin and launder clothing before use.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash fountain or bottles. Solvent insoluble barrier hand cream.

---

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Physical State:</b>	Medium viscosity liquid	<b>Odor:</b>	Acetone odor
<b>Specific Gravity:</b>	0.9	<b>Evaporation Rate:</b>	Slower than ether
<b>Boiling Point:</b>	133°F	<b>Solubility in Water:</b>	Nil
<b>Percent Volatile:</b>	46.1	<b>Vapor Density:</b>	Heavier than air
<b>VOC:</b>	N/A		

---

### SECTION 10: STABILITY AND REACTIVITY

---

**CHEMICAL STABILITY:** Stable

**Conditions to Avoid:** Keep away from all sources of ignition or heat.

**INCOMPATIBILITY WITH OTHER SUBSTANCES:** Strong oxidizing agents can cause spontaneous combustion.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning may produce fumes of carbon dioxide, carbon monoxide, hydrogen cyanide, phenols, and nitrous oxides.

**POLYMERIZATION:** Product will not undergo polymerization.

**Hazardous Polymerization:** Will not occur.

---

### SECTION 11: TOXICOLOGICAL INFORMATION

---

**EFFECTS OF ACUTE EXPOSURE:** See Section 3.

**EFFECTS OF CHRONIC EXPOSURE:** See Section 3.

# MATERIAL SAFETY DATA SHEET

Lonseal #400 Contact Adhesive

---

## CARCINOGENICITY:

*NTP:* No

*IARC Monographs:* No

*OSHA Regulated:* No

REPRODUCTIVE TOXICITY: Not listed

TERATOGENICITY: Not listed

EMBROTOXICITY: Not listed

MUTAGENICITY: Not listed

SYNERGISTIC MATERIAL: Not listed

---

## SECTION 12: ECOLOGICAL INFORMATION

---

ENVIRONMENTAL DATA: Not listed

ECOTOXICITY: Not listed

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

DISPOSAL INSTRUCTIONS: Dispose of in accordance with all local, state, and federal regulations.

---

## SECTION 14: TRANSPORT INFORMATION

---

### DEPARTMENT OF TRANSPORTATION (DOT)

*Proper Shipping Name:* Adhesives, containing a flammable liquid

*Hazard Class:* 3

*ID Number:* UN1133

*Packing Group:* II

*Label Codes:* 3

*Marine Pollutant:* No

---

## SECTION 15: REGULATORY INFORMATION

---

**CALIFORNIA PROPOSITION 65:** This product contains chemicals known to the state of California to cause cancer and/or birth defects or other reproductive harm.



# MATERIAL SAFETY DATA SHEET

Lonseal #400 Contact Adhesive

---

## SECTION 16: OTHER INFORMATION

---

### HMIS RATINGS:

*Health:* 2  
*Flammability:* 3  
*Physical Hazard:* 0  
*Personal Protection:* K

### GENERAL STATEMENTS:

Keep out of reach of children.

For professional or industrial use only.

If you cannot read, or do not understand all directions, cautions, and warnings, do not use this product.

**DISCLAIMER:** Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. This information relates only to the product designated herein, and does not relate to its use in combination with other material or in any other process. The manufacturer makes no representations and assumes no liability for any direct, incidental, or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State, or provincial and local laws. Conditions of use are beyond our control and therefore users are responsible to verify this data under their own conditions to determine suitability for their purpose.

## SECTION 1 : IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

**Product Name:** Lonseal Premium Bond #755 Sheet Vinyl Adhesive  
**Product Code:** ZAD7551 and ZAD 75535

### 1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST

**Product Use:** Sheet vinyl flooring adhesive (see Technical Data Sheet for additional details)  
**Product Restrictions:** For use with interior installations of sheet vinyl flooring only (see Technical Data Sheet for additional details)

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Manufactured for:** Lonseal, Inc.  
**Address:** 928 E. 238<sup>th</sup> Street  
Carson, CA 90745  
(310) 830-7111

**24 Hour Emergency Phone Number:** INFOTRAC – (800) 535-5053

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 2.2 LABEL ELEMENTS

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 2.3 OTHER HAZARDS

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification: None

## SECTION 4: FIRST-AID MEASURES

### 4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

**Eyes:** Wash immediately with water.  
**Ingestion:** Do not induce vomiting. Get medical attention showing the SDS and the hazard label.  
**Inhalation:** Remove casualty to fresh air and keep warm and at rest.  
**Skin:** Wash with plenty of water and soap.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

n/a

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Nothing noted by mfg.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 SUITABLE EXTINGUISHING MEDIA

Water and carbon dioxide (CO<sub>2</sub>)

### 5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Do not inhale explosion and combustible gases. Burning produces heavy smoke.

**Hazardous Combustion Products:** n/a

**Explosive Properties:** n/a

**Oxidizing Properties:** n/a

### 5.3 SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Wear personal protection equipment. Remove persons to safety. See protective measures under Section 7 and 8.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Not noted by mfg.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

---

## SECTION 7: HANDLING AND STORAGE

---

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes, inhalation of vapors and mist. Do not eat or drink while working. See also Section 8 for recommended protective equipment.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage Temperature:** n/a  
**Incompatible Materials:** None in particular.  
**Instructions as Regards Storage Premises:** Adequately ventilated premises.

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### 8.1 CONTROL PARAMETERS

No data available.

### 8.2 APPROPRIATE ENGINEERING CONTROLS

n/a

### 8.3 APPROPRIATE PROTECTION MEASURES, INCLUDING PERSONAL PROTECTIVE EQUIPMENT

**Eye Protection:** Not needed for normal use. Anyway, operate according good working practices.  
**Respiratory Protection:** n/a  
**Skin Protection:** No special precaution must be adopted for normal use.

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Appearance:</b>	White paste
<b>Odor:</b>	like Acrylic
<b>Odor Threshold:</b>	n/a
<b>pH:</b>	n/a
<b>Melting Point/Freezing Point:</b>	n/a
<b>Initial Boiling Point and Boiling Range:</b>	> 212 °F (100 °C)
<b>Flash Point:</b>	> 212 °F (100 °C)
<b>Evaporation Rate:</b>	n/a
<b>Flammability (Solid, Gas):</b>	n/a
<b>Upper/Lower Flammability or Explosive Limits:</b>	n/a
<b>Vapor Pressure:</b>	n/a
<b>Vapor Density:</b>	1.1 – 1.2
<b>Relative Density:</b>	n/a
<b>Solubility in Water:</b>	Dispersible
<b>Partition Coefficient (n-octanol/water):</b>	n/a
<b>Auto-Ignition Temperature:</b>	n/a
<b>Decomposition Temperature:</b>	n/a
<b>Viscosity:</b>	n/a
<b>Solubility in Oil:</b>	n/a
<b>Explosive Properties:</b>	n/a
<b>Oxidizing Properties:</b>	n/a
<b>Substance Groups Relevant Properties:</b>	n/a
<b>Miscibility:</b>	n/a
<b>Fat Solubility:</b>	n/a
<b>Conductivity:</b>	n/a

---

## SECTION 10: STABILITY AND REACTIVITY

---

### 10.1 REACTIVITY

Stable under normal conditions.

**1 0.2 CHEMICAL STABILITY**

Data not available.

**1 0.3 POSSIBILITY OF HAZARDOUS REACTIONS**

None.

**1 0.4 CONDITIONS TO AVOID**

Stable under normal conditions.

**1 0.5 INCOMPATIBLE MATERIALS**

None in particular.

**1 0.6 HAZARDOUS DECOMPOSITION PRODUCTS**

None.

**SECTION 1 1 : TOXICOLOGICAL INFORMATION**

Toxicological information of the product: No data available.

<b>Substance(s) listed on the IARC Monographs:</b>	None
<b>Substance(s) listed as OSHA Carcinogen(s):</b>	None
<b>Substance(s) listed as NIOSH Carcinogen(s):</b>	None
<b>Substance(s) listed on the NTP Report on Carcinogen(s):</b>	None

**SECTION 1 2 : ECOLOGICAL INFORMATION**

**1 2.1 TOXICITY**

Adopt good working practices, so that the product is not released into the environment.

List of Eco-Toxicological properties of the product: No data available.

**1 2.2 PERSISTENCE AND DEGRADABILITY**

n/a

**1 2.3 BIOACCUMULATIVE POTENTIAL**

n/a

**1 2.4 MOBILITY IN SOIL**

n/a

**1 2.5 OTHER ADVERSE EFFECTS**

n/a

**SECTION 1 3 : DISPOSAL CONSIDERATIONS**

**1 3.1 DISPOSAL METHODS**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**SECTION 1 4 : TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

	<b>DOT/ADR</b>	<b>IMO/IMDG</b>	<b>ICAO/IATA</b>
<b>UN Number:</b>	n/a	n/a	n/a
<b>UN Proper Shipping Name:</b>	n/a	n/a	n/a
<b>Transport Hazard Class(es):</b>	n/a	n/a	n/a
<b>Packing Group:</b>	n/a	n/a	n/a
<b>Environmental Hazards:</b>	Marine Pollutant: No Environmental Pollutant: n/a		
<b>Special Precautions for User:</b>	n/a		

**SECTION 1 5 : REGULATORY INFORMATION**

**Toxic Substance Control Act (TSCA):** All components are listed on the TSCA Inventory.

**Listed Substance(s):** No substances listed.

**Superfund Amendments and Reauthorization Act (SARA)**

**Section 302 – Extremely Hazardous Substances:** No substances listed.  
**Section 304 – Hazardous Substances:** No substances listed.  
**Section 313 – Toxic Chemical List:** No substances listed.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**  
**Listed Substance(s):** No substances listed.

**Clean Air Act (CAA)**  
**Listed Substance(s):** No substances listed.

**Clean Water Act (CWA)**  
**Listed Substance(s):** No substances listed.

**USA – State Regulations**  
**California Proposition 65:** No substances listed.  
**Massachusetts RTK:** No substances listed.  
**New Jersey RTK:** No substances listed.

## SECTION 16: OTHER INFORMATION

### Additional Classification Information:

HMIS Health: 0 = Minimal  
 HMIS Health – Is health hazard chronic?: No  
 HMIS Flammability: 0 = Not combustible  
 HMIS Reactivity: 0 = Minimal  
 HMIS PPE: B = Safety glasses, gloves

NFPA Health: 0 = Minimal  
 NFPA Flammability: 0 = Not combustible  
 NFPA Reactivity: 0 = Minimal  
 NFPA Special Risk: None

**DISCLAIMER:** Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. This information relates only to the product designated herein, and does not relate to its use in combination with other materials or in any other process. The manufacturer makes no representations and assumes no liability for any direct, incidental, or consequential damages resulting from its use. The information herein is presented in good faith and based upon data from manufacturers and/or technical sources, and is believed to be accurate as of the revision date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State, or provincial and local laws. Conditions of use are beyond our control and therefore users are responsible to verify this data under their own conditions to determine suitability for their purpose. Users of this product must comply with all applicable health and safety laws, regulations, and orders. Users of this product assume all risks of use, handling, and disposal, or from use of the information contained within this document.

### General Statements:

Keep out of the reach of children.  
 For professional or industrial use only.  
 If you cannot read, or do not understand all directions, cautions, and warnings for this product, DO NOT use.

### Abbreviations (may not actually appear within document):

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
bw	Body Weight
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CMR	Carcinogenicity, Mutagenicity, and Toxicity for Reproduction
CNS	Central Nervous System
cSt	centistokes
d	Day
Dam.	Damage
DIN	German Institute for Standardization
DNEL	Derived No Effect Level
DSL	Domestic Substances List
DOT	Department of Transportation
EC	European Commission
EC50	Effective Concentration, for 50% of Test Population
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ErC50	Effective Concentration, for 50% of Test Population
ERG	Emergency Response Guidebook
g	grams
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
hr.	hour(s)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association

PREMIUM BOND #755  
SHEET VINYL ADHESIVE

SAFETY  
DATA  
SHEET

ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IOELV	Indicative Occupational Exposure Limit Values
Irrit.	Irritation
L	liter(s)
lbs.	pounds
LC50	Lethal Concentration, for 50% of Test Population
LD50	Lethal Dose, for 50% of Test Population
Liq.	Liquid
m	meter(s)
mfg.	Manufacturer
mg	milligram(s)
mL	milliliter
n/a	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NOEC	No Observed Effect Concentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limits
OSHA	Occupational Safety and Health Administration
Pa	Pascal
PBT	Persistent Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
PPE	Personal Protective Equipment
ppm	Parts Per Million
Repr.	Reproductive Toxicity
Respir.	Respiratory Tract Irritation
RQ	Reportable Quantities
RTK	Right-to-Know
SDS	Safety Data Sheet
Sens.	Sensitization
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
STOT RE	Specific Target Organ Toxicity, Repeat Exposure
STOT SE	Specific Target Organ Toxicity, Single Exposure
TCC	Tag Closed Cup
THF	Tetrahydrofuran
TLV	Threshold Limit Value
Tox.	Toxicity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
WHMIS	Workplace Hazardous Materials Information System

**Revision History:**

6.1.2015 Initial SDS Release. SDS provided by mfg. was incorporated into Lonseal's letterhead/layout. Items contained within Section 16, from "DISCLAIMER" and below, are exclusive to Lonseal's version of the SDS.

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** M-Guard V-88 Premium Transitional Pressure Sensitive Adhesive  
**Chemical Name:** Synthetic Polymer Emulsion  
**Product Use/Class:** Homogeneous and heterogeneous Vinyl Back Sheet and Luxury Vinyl Tile and Plank  
**Company Information:** Mannington Mills, Inc.  
 P.O. Box 30 - Route 45  
 75 Mannington Mills Road  
 Salem, New Jersey 08079 U.S.A.  
**Phone Numbers:** General: (856) 935-3000  
 Product Emergency: (866) 359-5602  
Transport Emergency Contact:  
 Within the U.S. - CHEMTREC: (800) 424-9300  
 Outside the U.S. - CHEMTREC: +1-703-527-3887

**Effective Date:** Jan. 6, 2012

**Supercedes Date:** N. A.

**Reason for Revision:** New

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %	Exposure Guidelines				Other
			ACGIH - TLV		OSHA - PEL		
			TWA	STEL	TWA	Ceiling	

This product contains no hazardous ingredients as defined by OSHA Hazard Communication Standard -29 CFR 1910-1200 or Section 13 of the Canadian Hazardous products Act. For California (Proposition 65); this product contains no chemicals reportable under Proposition 65. All ingredients are listed within or exempted from US TSCA and Canadian DSL.

**SECTION 3 - HAZARDS IDENTIFICATION**
**EMERGENCY OVERVIEW**
**Form:** Light Paste

**Color:** Off White

Odor: Low

### **WARNING STATEMENTS**

None

### **POTENTIAL HEALTH EFFECTS**

#### **Primary Routes of Exposure**

**Eye Contact:** May cause irritation to the eye.

**Skin Contact:** None known. May cause irritation after prolonged contact. Practice good hygiene.

**Inhalation:** None known. May cause slight irritation to the upper respiratory tract after prolonged contact.

**Ingestion:** None known. Not a likely route of entry. May cause gastric disturbances.

**Chronic:** N.A.

**Other:** N.A.

*Refer to Section 11 for toxicological information.*

### **SECTION 4 - FIRST AID MEASURES**

**If in Eyes:** Flush with water at least 15 minutes. If irritation persists, seek medical attention.

**If on Skin:** Remove material from skin and wash skin thoroughly with soap and water. If irritation persists, seek medical attention.

**If Inhaled:** Move victim to fresh air. If unconscious, seek medical attention.

**If Swallowed:** Do not induce vomiting. Contact physician at once.

### **SECTION 5 - FIRE FIGHTING MEASURES**

**Flash Point:** N. A.

**Lower Explosive Limit (LEL) %:** N. A.

**Upper Explosive Limit (UEL) %:** N. A.

**Auto-Ignition Temperature:** N. A.

**OSHA Flammability Classification:** N. A.

**Hazardous Products of Combustion:** N. A.

**Extinguishing Media:** Not combustible in wet state. Use appropriate media for surrounding areas.

**Unusual Fire and Explosion Hazards:** None known

**Fire Fighting Equipment:** Product will burn in dry state. Use self contained breathing apparatus and turn out gear.

**Miscellaneous Advice:** N. A.

*Refer to Section 10 for additional information.*

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**



**Personal Precautions:** Use safe handling procedures

**Methods for Clean-up:** Keep out of sewer systems. Use absorbent material to collect and contain for salvage or disposal. Use proper container for disposal.

*Refer to Section 13 for disposal information.*

*Refer to Sections 14 and 15 for reportable quantity information.*

## SECTION 7 - HANDLING AND STORAGE

**Handling:** Use only in well ventilated areas.

**Storage:** Store in a dry environment. Close container after use. Keep from prolonged freezing for optimum performance. However, product will withstand three freeze-thaw cycles with no adverse effects on performance. If accidentally frozen, allow to thaw completely, mix thoroughly and check for homogeneity and normal trowelling. Acceptable storage range is 35 - 95 degrees F.

*Consult the Mannington Professional Installation Handbook for additional information on handling and storage.*

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation, local exhaust at point of use.

**Respiratory Protection:** Not normally required.

**Eye Protection:** Standard safety glasses with side shields

**Hand and Skin Protection:** Use gloves if contact with skin is possible

**Other Protective Equipment:** None

***Hygienic Practices:*** *Always wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.*

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Light Paste

**Physical State:** Paste

**Melting Point:** N. A.

**Water Solubility:** Water emulsion

**Volatiles (Wt. %):** 35 - 40

**VOC, g/l (calculated):** less than 14 gm/lit

**Boiling Point:** Approx. 212 degrees F

**Density:** 8 - 9 lbs per gallon

**Vapor Density:** Approx. that of water

**Specific Gravity:** 0.96 - 1.06 (*Water = 1.0*)

**Vapor Pressure:** low

**Evaporation Rate:** Approx. that of water

**pH:** 9 - 9.5

**Decomposition Temperature:** N.A.

## SECTION 10 - STABILITY AND REACTIVITY

**Conditions to Avoid:** None

**Materials to Avoid:** None Known

**Stability:** Stable  
**Hazardous Reactions:** N. A.  
**Hazardous Polymerization:** Will not occur  
**Hazardous Decomposition Products:** None known

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Product LD50 (Oral):** Not determined  
**Product LD50 (Dermal):** Not determined  
**Product LC50:** Not determined  
**Immediate (Acute) Effects:** Skin and eye contact may irritation, inhalation may cause respiratory tract irritation and ingestion may cause gastric disturbances.  
**Delayed (Subchronic & Chronic) Effects:** None known.

## SECTION 12 - ECOLOGICAL INFORMATION

Not available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**US EPA RCRA Status:** N.A.  
**Disposal Considerations:** N. A.  
**Disposal Method:** N.A.

**Miscellaneous:** Disposal should be done in accordance with all local, state and federal (40 CFR Part 261) regulations. Be aware that state and local requirements differ widely depending on location and may in many cases be different from federal rules.

## SECTION 14 - TRANSPORT INFORMATION

The information provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transport.

**DOT Proper Shipping Name:** Not regulated  
**DOT Hazard Class:** Not regulated  
**DOT UN/NA Number:** Not regulated  
**Packing Group:** Not regulated  
**Product Emergency:** (866) 359-5602  
**Transport Emergency Contact:**  
**Within the U.S.A:** (800) 424-9300  
**Outside the U.S.A:** +1-703-527-3887

## SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations: N.A.

SARA Section 313: N.A.

Toxic Substances Control Act: N.A.

Inventory Status: N.A.

Export Notification: N.A.

Other: California Proposition 65 - No components in this product are present at levels known to the State of California to cause cancer, birth defects, or reproductive harm.

## SECTION 16 - OTHER INFORMATION

Hazard Ratings	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	

### Disclaimer:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date of hereof, the company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will the company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

### Legend:

N.E. - Not Established

N.A. - Not Available

N/A - Not Applicable

C - Ceiling (Exposure Levels)

PEL - Permissible Exposure Limits

OEL - Occupational Exposure Limit

TSCA - Toxic Substances Control Act

TLV - Exposure limits developed by ACCIH

NFPA - National Fire Protection Association

NIOSH - National Institute for Occupational Safety

OSHA - Occupational Safety and Health Administration

HAZCOM - Hazard Communication Standard (29CFR1910.1200)

ACGIH - American Conference of Government Industrial Hygienists

MSHA - Mine Safety and Health Adm TWA - Time Weighted Average

S - Skin

ppm - Parts per Million

° F. - Degrees Fahrenheit

° C. - Degrees Centigrade

STEL - Short-Term Exposure Limit

CIH - Certified Industrial Hygienist

## Safety Data Sheet

### MAPECEM QUICK PATCH

Safety Data Sheet dated: 8/17/2015 - version 1

Date of first edition: 8/17/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: MAPECEM QUICK PATCH

### Recommended use of the chemical and restrictions on use

Recommended use: Concrete Patch

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 1A	May cause cancer if inhaled.
STOT RE 1	Causes damage to organs through prolonged or repeated exposure if inhaled.

### Label elements

#### Symbols:



Danger

Code	Description
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260.B	Do not breathe dust.
P264.2	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.

P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
50-60 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A
1-5 %	Portland cement	CAS:65997-15-1	STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Irrit. 2, H315

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- If breathing is irregular or stopped, administer artificial respiration.
- In case of inhalation, consult a doctor immediately and show him packing or label.

**Most important symptoms/effects, acute and delayed**

Eye irritation  
Eye damages

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Use localized ventilation system.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

- Storage temperature: N.A.
- Incompatible materials:
  - None in particular.
- Instructions as regards storage premises:
  - Adequately ventilated premises.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;
Portland cement	OSHA			15					
	OSHA			5					
	ACGIH			1					A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma;

Appropriate engineering controls: N.A.

### Individual protection measures

- Eye protection:
  - Use close fitting safety goggles, don't use eye lens.
- Protection for skin:
  - Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
- Protection for hands:
  - Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
- Respiratory protection:
  - Use adequate protective respiratory equipment.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

- Physical state: Solid
- Appearance and colour: Powder grey
- Odour: Cement like
- Odour threshold: N.A.
- pH: N.A.
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: N.A.
- Flash point: Not Applicable

Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: Dispersible  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand                      Group 1

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

---

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
50-60 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A



DOT-Non-Bulk: N/A  
Road and Rail (ADR-RID):  
ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A  
Air (IATA):  
IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A  
Sea (IMDG):  
IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Silica Sand	is listed in TSCA	Section 8b
Portland cement	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
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#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand  
Portland cement

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

Silica Sand  
Portland cement

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

Silica Sand  
Portland cement

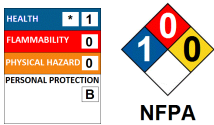
**16. OTHER INFORMATION**

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 8/17/2015 - version 1

Product code: 1834

**Additional classification information**



HMIS Health: 1 = Slight  
HMIS Health - Is health hazard chronic?: Yes  
HMIS Flammability: 0 = Not Combustible  
HMIS Reactivity: 0 = Minimal  
HMIS P.P.E.: Safety glasses, gloves  
NFPA Health: 1 = Slight  
NFPA Flammability: 0 = Not Combustible  
NFPA Reactivity: 0 = Minimal  
NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- IMDG: International Maritime Code for Dangerous Goods.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- CLP: Classification, Labeling, Packaging.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**MASLAND MODULAR TILE ADHESIVE**

Version	Revision Date:	MSDS Number:	Date of last issue: 06/01/2015
2.0	06/12/2015	F000001718	Date of first issue: 06/01/2015

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**SECTION 1. IDENTIFICATION**

Product name : MASLAND MODULAR TILE ADHESIVE

Product code : F000001718

**Manufacturer or supplier's details**

Company name of supplier : Masland Contract

Address : 716 Bill Myles Drive  
Saraland, AL 36571

Telephone : (251) 675-9080

Telefax :

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

---

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

---

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

---

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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Use NIOSH approved respiratory protection.

Hand protection  
Material

: Impervious gloves

Eye protection

: Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

Skin and body protection

: Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

Protective measures

: Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

: Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid  
paste

Colour

: blue

Odour

: mild, characteristic

pH

: 7.5 - 8.5

Melting point/range

: No data available

Boiling point/boiling range

: 212 °F

Flash point

: > 212 °F

Vapour pressure

: No data available

Density

: 950 - 1,150 kg/m<sup>3</sup>

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Bulk density	:	8.2 lb/gal
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	Not applicable
Partition coefficient: n-octanol/water	:	No data available
Explosive properties	:	Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Protect from frost.
Incompatible materials	:	Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

#### Skin corrosion/irritation

##### Product:

Remarks: This information is not available.

#### Serious eye damage/eye irritation

##### Product:

Remarks: This information is not available.



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### Respiratory or skin sensitisation

#### Product:

Remarks: This information is not available.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.

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Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

##### 49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### TSCA

All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

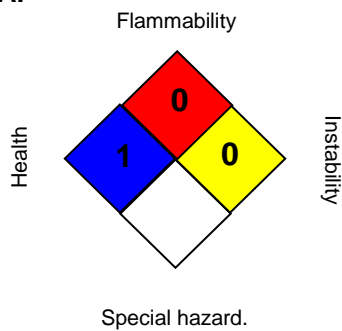
# MASLAND MODULAR TILE ADHESIVE

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## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/12/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

# Material Safety Data Sheet

## Masland Premium Carpet Adhesive

Revision Date: 01/07/2013

### Supplier:

Masland Contract  
716 Bill Myles Drive  
Saraland, AL 36571  
Telephone No.: 251-675-9080

### 24-hour Emergency:

**Chemtrec 1-800-424-9300**

### Product Identification:

Product Class: Aqueous Adhesive  
Product Name: **Masland Premium Carpet Adhesive**

### Hazardous Ingredients: None known.

\*All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

### Physical Data:

Boiling Point: 212° F  
Vapor Density: Same as water.  
Evaporation Rate: Same as water.  
Appearance: Viscous tan paste  
Odor: Mild characteristic  
Weight per Gallon: 9.5 lbs. typical  
pH: 9.5 typical  
Solubility in Water: Not soluble (Dispersible)  
V.O.C. (grams per liter): "zero" calculated  
SCAQMD Rule #1168: Compliant

### Fire and Explosion Hazard Data:

Flammable Limits: Non-flammable  
Flash Point: > 212 deg. F.  
Flammability Classification: OSHA: None  
DOT: None  
Extinguishing Media: CO<sub>2</sub>, chemical foam, water fog

**Special Fire Fighting Features:** Wear self-contained breathing gear when in confined area.

### Health Hazard Data:

Threshold Limit Value: Not established  
Effects of Overexposure: No known chronic overexposure effects.

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

**Emergency and First Aid Procedure:** Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

### Reactivity Data:

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.  
Hazardous Decomposition Products: None known;  
Normal (CO<sub>2</sub>, CO).  
Hazardous Polymerization: Will not occur.

### Precautions for Handling and Use:

Ventilation: Local ventilation.  
Protective Gloves: Recommended.  
Eye Protection: Safety glasses.  
Hygienic Practices: Wash with soap and water after exposure.  
Respiratory Protection: Not required with adequate ventilation.  
Other Protective Equipment: None.  
Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Dispose of in accordance with Federal, State and Local regulations.

### Special Precautions/Other Comments:

Precautions to be taken in handling and storing: Store inside at a temperature of 60° - 100° F. Do not allow product to freeze.  
Other precautions: None

### Transportation Data:

D.O.T. Hazard Class: Unregulated

**MILLIKEN MODULAR 100V**

Version	Revision Date:	MSDS Number:	Date of last issue: 05/29/2015
2.0	06/10/2015	F000000919	Date of first issue: 05/29/2015

---

**SECTION 1. IDENTIFICATION**

Product name : MILLIKEN MODULAR 100V

Product code : F000000919

**Manufacturer or supplier's details**

Company name of supplier : Milliken

Address : 924 Milliken Road  
Spartanburg SC 29303

Telephone : (864) 472-9047

Telefax :

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

---

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

## MILLIKEN MODULAR 100V

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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

---

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

---

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## MILLIKEN MODULAR 100V

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Use NIOSH approved respiratory protection.

Hand protection  
Material

: Impervious gloves

Eye protection

: Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

Skin and body protection

: Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

Protective measures

: Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

: Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: cream, liquid
Colour	: white
Odour	: mild, characteristic
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: No data available
Density	: 950 - 1,050 kg/m <sup>3</sup>
Solubility(ies)	



# SAFETY DATA SHEET



## MILLIKEN MODULAR 100V

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Water solubility	: insoluble
Solubility in other solvents	: Not applicable
Partition coefficient: n-octanol/water	: No data available
Explosive properties	: Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Protect from frost.
Incompatible materials	: Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	: Remarks: This information is not available.
Acute inhalation toxicity	: Remarks: This information is not available.
Acute dermal toxicity	: Remarks: This information is not available.

#### Skin corrosion/irritation

##### Product:

Remarks: This information is not available.

#### Serious eye damage/eye irritation

##### Product:

Remarks: This information is not available.

#### Respiratory or skin sensitisation

##### Product:

# SAFETY DATA SHEET



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Remarks: This information is not available.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

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## MILLIKEN MODULAR 100V

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Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

## International Regulation

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

## National Regulations

**49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

# SAFETY DATA SHEET



## MILLIKEN MODULAR 100V

Version  
2.0

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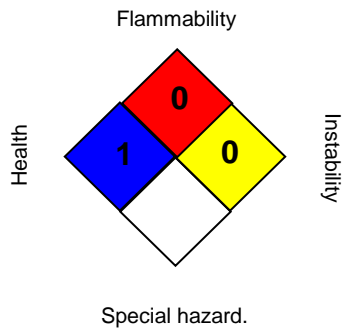
MSDS Number:  
F000000919

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Date of first issue: 05/29/2015

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

**Safety Data Sheet****MOHAWK ENPRESS PSA**

Safety Data Sheet dated: 8/2/2016 - version 2

Date of first edition: 5/11/2015

**1. IDENTIFICATION****Product identifier**

Mixture identification:

Trade name: MOHAWK ENPRESS PSA

**Recommended use of the chemical and restrictions on use**

Recommended use: Adhesive

Restrictions on use: N.A.

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**

Company: Mohawk Flooring Center

160 S. Industrial Blvd.

30701 - Calhoun - GA - USA

Phone: 800-833-6954

**Emergency 24 hour numbers:**

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

**2. HAZARD(S) IDENTIFICATION****Classification of the chemical**

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Label elements**

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

None

**4. FIRST AID MEASURES****Description of first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

N.A.

**Indication of any immediate medical attention and special treatment needed****5. FIRE-FIGHTING MEASURES****Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No Data Available

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste white

Odour: like: Acrylate

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: >100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: 1.15

Vapour pressure: N.A.

Relative density: 1.00 g/cm<sup>3</sup>  
Solubility in water: Soluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance groups relevant properties: N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Toxicological information of the product: No Data Available

### Substance(s) listed on the IARC Monographs:

None

### Substance(s) listed as OSHA Carcinogen(s):

None

### Substance(s) listed as NIOSH Carcinogen(s):

None

### Substance(s) listed on the NTP report on Carcinogens:

None

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

### List of Eco-Toxicological properties of the product

No Data Available

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

### 14. TRANSPORT INFORMATION

#### UN number

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

#### UN proper shipping name

ADR-Shipping Name: N/A  
DOT-Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

#### Transport hazard class(es)

ADR-Class: N/A  
DOT-Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

#### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

#### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Transport category (Tunnel restriction code): N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

### 15. REGULATORY INFORMATION

#### USA - Federal regulations



## **TSCA - Toxic Substances Control Act**

### **TSCA inventory:**

All the components are listed on the TSCA inventory

### **TSCA listed substances:**

no substances listed

## **SARA - Superfund Amendments and Reauthorization Act**

### **Section 302 - Extremely Hazardous Substances:**

no substances listed

### **Section 304 - Hazardous substances:**

no substances listed

### **Section 313 - Toxic chemical list:**

no substances listed

## **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

### **Substance(s) listed under CERCLA:**

no substances listed

## **CAA - Clean Air Act**

### **CAA listed substances:**

no substances listed

## **CWA - Clean Water Act**

### **CWA listed substances:**

no substances listed

## **USA - State specific regulations**

### **California Proposition 65**

#### **Substance(s) listed under California Proposition 65:**

no substances listed

### **Massachusetts Right to know**

#### **Substance(s) listed under Massachusetts Right to know:**

no substances listed

### **Pennsylvania Right to know**

#### **Substance(s) listed under Pennsylvania Right to know:**

no substances listed

### **New Jersey Right to know**

#### **Substance(s) listed under New Jersey Right to know:**

no substances listed

## **Canada - Federal regulations**

### **DSL - Domestic Substances List**

#### **DSL Inventory:**

All the substances are listed in the DSL.

### **NDSL - Non Domestic Substances List**

#### **NDSL Inventory:**

no substances listed

### **NPRI - National Pollutant Release Inventory**

#### **Substances listed in NPRI:**

no substances listed

---

## **16. OTHER INFORMATION**

**Additional classification information**



HMIS Health: 0 = Minimal

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = Minimal

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION

SAFETY DATA SHEET - Mohawk M700  
 According to EC directive 1907/2006/EC  
 Article 31

## 1. Material / Preparation and Company Designation

**Manufactured for:** Mohawk Industries, Inc.  
 160 South Industrial Blvd.  
 Calhoun, GA 30701 USA  
 www.MohawkFlooring.com

**Manufacturing location:** 198 Nexus Drive  
 Dalton, GA 30721

**Emergency phone:** Chemtrec (800) 424-9300  
 Chemtrec International (703) 527-3887  
 Industrial Health/Spill Emergency (706) 277-1300 Danny Welch

**Information phone:** (706) 272-5800

## 2. List / Data of Components

Information on hazardous ingredients: No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and/or 40 CFR 372 are present.

Chemical name:	Emulsion Latex Adhesive	Hazard symbol:	N/A
Product code:	PR	H-phrases:	N/A
CAS-no.:	mixture	P-phrases:	P273
EC-no.:	N/A	Formula:	No information available

See section 16 for the full text of the Hazard symbols and Phrases.

## 3. Possible Hazards

May cause irritation of the skin and eyes. May be an inhalation and ingestion hazard. This product is not for human consumption.

## 4. First Aid Measures

**Inhalation:** Remove to fresh air immediately and consult medical attention from a licensed healthcare professional.

**Skin Contact:** Wash affected area immediately in flowing water (warm if readily available) for at least 15 minutes (carefully remove contaminated or protective clothing while washing) and consult medical attention from a licensed healthcare professional.

**Eye Contact:** Flush eyes immediately with plenty of water for 15 minutes including under upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a licensed healthcare professional as soon as possible.

**Ingestion:** Never give anything by mouth if victim is unconscious or having convulsions; seek medical attention from a licensed healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.

## 5. Measures In Case of Fire

**Suitable extinguishing media:** Chemical Foam, CO<sub>2</sub>, Water Fog

**Hazardous decomposition/combustion products:** Thermal decomposition should produce only normal Hydrocarbon combustion products. Products of thermal decomposition may be harmful.

**Special protective equipment for fire fighters:** None; this product is non-flammable in aqueous form (as supplied).

**Other information:** None known; non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Firefighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing. Use water fog to cool containers exposed to extreme heat.

## 6. Accidental Release Procedures

**Personal precautions:** Use protective equipment when in confined area. Self-contained breathing apparatus must be available in case of emergency. Use caution to avoid falls.

**Environmental precautions:** Ventilate area and evacuate non-essential personnel. Dike and contain spill for possible recovery and to prevent from entering waterways. Eliminate sources of ignition from the spill area.

**Methods for cleaning up / taking up:** Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces or absorbed onto inert material and handled as solid waste. Place discarded material in closed, labelled containers for disposal. Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Must be disposed of in accordance with all local, state, federal and international regulations.

## 7. Handling and Storage

Adhere to work practice rules established by government regulations (e.g. OSHA).

**Advice on protection against fire and explosion:** None known

**Storage requirements:** Use reasonable care to avoid skin and eye contact. Do not eat, drink or smoke in working area. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Keep containers closed when not in use. Protect containers against physical damage. Store in a cool (4°C – 43°C / 40°F – 110°F), dry, well-ventilated area inside. Do not allow product to freeze. If needed, stir before using. 'Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Any use of this product in a process should be evaluated to establish and maintain safe operating procedures.

## 8. Engineering controls

**Exposure limits:** No information available. Consult local authorities for acceptable exposure limits.

**Personal protection:** None necessary under normal conditions (adequate ventilation). If necessary, use NIOSH approved respiratory protection. Recommended Local exhaust. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. Ventilation must be adequate to maintain contaminant concentration below permissible exposure limits. Ventilation should be in accordance with OSHA regulations. Properly maintain and have readily available an eyewash/safety shower facility in the work area.

**Hand protection:** Use gloves impervious to this material. The breakthrough time of the selected glove(s) must be greater than the intended use period. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provide by the glove supplier. Before eating, drinking, smoking or using the toilet, wash face and hands thoroughly with soap and water.

**Eye protection:** Recommend the use of safety eyewear including splashguards or side shields. If splashing is likely, wear a face shield.

**Skin and body:** Gloves, Apron or protective coveralls may be needed to help prevent soiling of skin and clothing. Wear proper safety boots. Contaminated clothing and shoes should be cleaned before reuse or disposed of as necessary.

## 9. Physical and Chemical Data

**Form:** Viscous liquid

**Color:** White

**Odor:** Bland

**Boiling point/range:** 100°C/212°F

**Melting point/range:** No information available

**Flash point:** >100°C/212°F

**Flammability:** Non-combustible

**Autoignition temperatures:** No information available

**Explosion limits:** No information available

**Vapour pressure:** As water

**Density:** 960 – 1020 kg/m<sup>3</sup>

**Solubility in water:** Dispersible

**Solubility in other solvents:** No information available

**pH:** 8.0 – 9.0

**Partition coefficient:** No information available

**n-octanol/water:** No information available

## 10. Stability and Reactivity Data

**Conditions to avoid:** Stable. Avoid freezing, heat, sparks, open flames or sources of ignition. Hazardous polymerization will not occur.

**Materials to avoid:** None known

**Hazardous decomposition products:** Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

## 11. Toxicological properties

**Acute toxicity data:**

Oral LD50: No information available

Dermal LD50: No information available

Inhalation LC50: No information available

**Irritation:**

Skin: Irritant

Eye: Irritant

Sensitization: No information available

Genotoxicity: No information available

**Other toxicological information:** No information available

## 12. Ecological properties

### Ecotoxic effects:

Fish: No information available

Daphnia: No information available

Algae: 96h-EC50 (Cell count): No information available

## 13. Disposal conditions

**Product:** Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Must be disposed of in accordance with all local, state, federal and international regulations.

**Contaminated packaging:** No information available

**Waste code number:** Please refer to your specific industry in the EUROPEAN WASTE CATALOGUE

## 14. Transport information

### Land transport ADR/RID and GGVS/GGVE

ADR class:

ADR/RID packing group:

RID class:

Substance identification no.:

Hazard identification:

UN No:

Proper shipping name:

### Marine transport IMDG / GGV See

IMDG-code class:

Packing group

EMS:

UN No:

Marine pollutant:

subsidiary risk:

Proper shipping name:

### Air transport ICAO-TI und IATA-DGR

class:

UN No.:

Packing group

Proper shipping name:

## 15. Regulations

This section is not meant to be all-inclusive; selected regulations are represented.

### SARA 313 SECTION OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

To the best of our knowledge, this product does not contain substance(s) above the de minimus level which require reporting under this statute.

### COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA, OR SUPERFUND):

To the best of our knowledge, this product does not contain any substance(s) listed as "Hazardous Substances" which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

### STATE REGULATIONS: California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65) This product may contain trace levels of a component or components known to the State of California to cause cancer and/or reproductive toxicity. This warning is provided in the absence of definitive testing to prove that these risks do not exist.

### Labelling in accordance with EC directives / German regulations

#### Labelling

EC-no: N/A

Symbols: N/A

R-phrases: N/A

S(afety) phrases: S61

Water hazardous class (Germany) (WGK): No information available

See section 16 for the full text of the Hazard symbols and Phrases.



## 16. Other Information:

### Hazardous Material Identification System (HMIS) rating/codes:

Health – 1 Flammability – 1 Reactivity – 0 Protective Equipment - B (safety eyewear, gloves)

HMIS uses a numbering scale ranging from 0 – 4 to indicate the degree of hazard.

Values: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme

An asterisk (\*) indicates chronic health hazards are associated with the chemical.

The proper protective equipment is identified with a letter corresponding to equipment listed after in parentheses.

### Legend:

P273 – Avoid release to the environment

S61 – Do not release product to the environment

Do not handle until the Manufacturer's Safety Precautions have been read and understood. This data is up to the current level of our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which Textile Rubber & Chemical Co. or Mohawk Group assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

# Material Safety Data Sheet

## Mohawk M950 Resilient Flooring Adhesive

Date: 4/21/2014

### Supplied By:

Mohawk Industries, Inc.  
160 South Industrial Blvd.  
Calhoun, GA 30701 USA  
www.MohawkFlooring.com

**24-hour Emergency:**  
**Chemtrec 1-800-424-9300**

### Product Identification:

Product Class: Aqueous Adhesive  
Product Name: Mohawk M950

### Hazardous Ingredients: None known

All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

### Physical Data:

Boiling Point: 212° F  
Vapor Density: Same as water  
Evaporation Rate: Same as water  
Appearance and Odor: Viscous white paste, low odor  
Weight per Gallon: 9.5 lbs  
Solubility in Water: Dispersible  
V.O.C. (Calculated): "zero" grams/liter  
SCAQMD Rule 1168: Compliant

### Fire and Explosion Hazard Data:

Flammable Limits: Non-flammable  
Flash Point: > 212 deg. F  
Flammability Classification: OSHA: None  
DOT: None  
Extinguishing Media: CO<sub>2</sub>, chemical foam, water fog

**Special Fire Fighting Features:** Wear self-contained breathing gear when in confined area.

### Health Hazard Data:

Threshold Limit Value: Not established  
Effects of Overexposure: No known chronic overexposure effects.

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

**Emergency and First Aid Procedure:** Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

### Reactivity Data:

Conditions to avoid: Excessive heat or cold  
Stability: Stable  
Incompatibility: None known  
Hazardous Decomposition Products: None known;  
Normal (CO<sub>2</sub>, CO)  
Hazardous Polymerization: Will not occur

### Precautions for Handling and Use:

Ventilation: Local ventilation  
Protective Gloves: Recommended  
Eye Protection: Safety glasses  
Hygienic Practices: Wash with soap and water after exposure  
Respiratory Protection: Not required with adequate ventilation  
Other Protective Equipment: None.  
Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Dispose of in accordance with Federal, State and Local regulations.

### Special Precautions/Other Comments:

Precautions to be taken in handling and storing: Store inside at a temperature of 60° - 100° F. Do not allow M950 to freeze.  
Other precautions: None

### Transportation Data:

D.O.T. Hazard Class: Unregulated

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**SECTION 1. IDENTIFICATION**

Product name : MOHAWK NUBROADLOK ADHESIVE

Product code : F000000914

**Manufacturer or supplier's details**

Company name of supplier : Mohawk Industries Inc.

Address : 160 South Industrial Blvd  
Calhoun GA 30701

Telephone : (888) 387-9881 option #3

Telefax :

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse im-  
mediately with plenty of water, also under the eyelids, for at least

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15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

---

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the envi-

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ronment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.

Hand protection

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Material	: Impervious gloves
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles Face-shield
Skin and body protection	: Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.
Protective measures	: Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	: Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: paste
Colour	: tan
Odour	: mild, characteristic
pH	: 8.0 - 9.0
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: No data available
Density	: 1,130 - 1,150 kg/m <sup>3</sup>
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: Not applicable

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Partition coefficient: n-octanol/water : Not applicable

Explosive properties : Not applicable

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#### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.

Incompatible materials : Oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

###### Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

##### Skin corrosion/irritation

###### Product:

Remarks: This information is not available.

##### Serious eye damage/eye irritation

###### Product:

Remarks: This information is not available.

##### Respiratory or skin sensitisation

###### Product:

Remarks: This information is not available.

##### Carcinogenicity

###### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

---

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.





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**SECTION 14. TRANSPORT INFORMATION**

**International Regulation**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

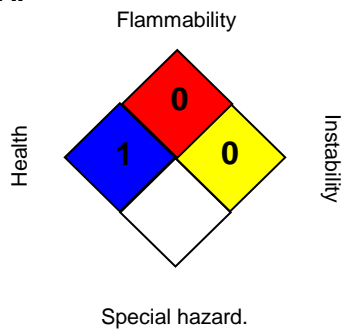
**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

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**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 06/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

Version 1.0      Revision Date: 01/12/2017      MSDS Number: F000000916      Date of last issue: -  
Date of first issue: 06/23/2015

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**SECTION 1. IDENTIFICATION**

Product name : MOHAWK NUBROADLOK SEAM SEALER

Product code : F000000916

**Manufacturer or supplier's details**

Company name of supplier : Mohawk Industries Inc.

Address : 160 South Industrial Blvd  
Calhoun GA 30701

Telephone : (888) 387-9881 option #3

Telefax :

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

- If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.
- In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least
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15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

---

## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.  
Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the envi-

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ronment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.

Hand protection

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Material	:	Impervious gloves
Eye protection	:	Safety glasses with side-shields Tightly fitting safety goggles Face-shield
Skin and body protection	:	Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.
Protective measures	:	Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	:	Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	tan
Odour	:	mild, characteristic
pH	:	8.0 - 9.0
Melting point/range	:	No data available
Boiling point/boiling range	:	212 °F
Flash point	:	> 212 °F
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	1,130 - 1,150 kg/m <sup>3</sup>
Solubility(ies)	:	

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Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Protect from frost.
Incompatible materials	:	Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.

**Skin corrosion/irritation****Product:**

Remarks: This information is not available.

**Serious eye damage/eye irritation****Product:**

Remarks: This information is not available.

**Respiratory or skin sensitisation****Product:**

Remarks: This information is not available.

**Carcinogenicity****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

---

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.





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**SECTION 14. TRANSPORT INFORMATION**

**International Regulation**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

---

**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

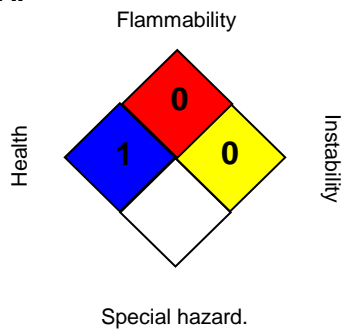
**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

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**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 06/23/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN



# Mohawk Group

## Material Safety Data Sheet

Material Name: Mohawk Optiseal

ID: SB00081

**\*\*\* Section 1 - Chemical Product and Company Identification \*\*\***

Material Name: Mohawk Optiseal

**Product Use**

Flooring Adhesive

**Manufactured For:**

The Mohawk Flooring Center  
160 S. Industrial Blvd.  
Calhoun, GA 30701  
800 833-6954

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:  
(USA) CHEMTREC 1-800-424-9300  
(Canada) CANUTEC 1-613-996-6666

**\*\*\* Section 2 - Hazards Identification \*\*\***

**Emergency Overview**

This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication) and the Canadian Workplace Hazardous Materials Information System (WHMIS). May cause slight irritation to eyes.

**Hazard Statements**

This product may cause slight irritation to the eyes. May cause slight irritation to skin. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

**Potential Health Effects: Eyes**

This product may cause slight irritation to the eyes.

**Potential Health Effects: Skin**

May cause slight irritation to skin.

**Potential Health Effects: Ingestion**

No significant adverse effects are expected upon ingestion of the product.

**Potential Health Effects: Inhalation**

None identified.

**Medical Conditions Aggravated by Exposure**

Hypersensitivity to product, allergies, and skin or respiratory disorders

**Potential Environmental Effects**

None identified.

**HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0 Pers. Prot.:** Safety glasses, gloves

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

# Material Safety Data Sheet

Material Name: Mohawk Optiseal

ID: SB00081

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

### Component Information/Information on Non-Hazardous Components

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200 (Hazard Communication) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

### First Aid: Skin

Flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

### First Aid: Inhalation

Immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

### Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical (preferred), foam, water.

### Unsuitable Extinguishing Media

None identified.

### Specific Hazards Arising From the Chemical

None identified.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

Wear appropriate protective equipment and clothing during clean-up.

### Containment Procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

# Material Safety Data Sheet

Material Name: Mohawk Optiseal

ID: SB00081

## Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

## Evacuation Procedures

None identified.

## Special Procedures

Regulations vary. Consult local authorities before disposal.

## \* \* \* Section 7 - Handling and Storage \* \* \*

### Handling Procedures

Avoid getting this material into contact with your skin and eyes. Wash hands after handling and before eating. Keep out of the reach of children.

### Storage Procedures

Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Keep out of sun. Do not freeze.

## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### A: Component Exposure Limits

ACGIH, OSHA, NIOSH or the provinces of Canada have not developed exposure limits for any of this product's components.

### Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

#### Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

#### Personal Protective Equipment: Respiratory

Not normally needed.

#### Personal Protective Equipment: General

Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

## \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

<b>Appearance:</b>	White Paste	<b>Odor:</b>	Mild
<b>Physical State:</b>	Paste	<b>pH:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Vapor Density:</b>	N/A
<b>Boiling Point:</b>	N/A	<b>Melting Point:</b>	N/A
<b>Solubility (H2O):</b>	N/A	<b>Specific Gravity:</b>	0.99--1.1
<b>Evaporation Rate:</b>	N/A	<b>VOC:</b>	<5 g/L (estimated)
<b>Octanol/H2O Coeff.:</b>	N/A	<b>Flash Point:</b>	N/A
<b>Flash Point Method:</b>	N/A	<b>Upper Flammability Limit (UFL):</b>	N/A
<b>Lower Flammability Limit (LFL):</b>	N/A	<b>Burning Rate:</b>	N/A
<b>Auto Ignition:</b>	N/A		

# Material Safety Data Sheet

Material Name: Mohawk Optiseal

ID: SB00081

## Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

## \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

### Chemical Stability

Stable under normal conditions.

### Chemical Stability: Conditions to Avoid

None identified.

### Incompatibility

This product may react with strong acids, bases and oxidizing agents.

### Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

### Possibility of Hazardous Reactions

Will not occur.

## \* \* \* Section 11 - Toxicological Information \* \* \*

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

### Carcinogenicity

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### Sensitization

No information available for the product.

## \* \* \* Section 12 - Ecological Information \* \* \*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

# Material Safety Data Sheet

Material Name: Mohawk Optiseal

ID: SB00081

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### A: General Product Information

No additional information available.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### International Transportation Regulations

Not regulated as dangerous goods.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

#### B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

### State Regulations

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

#### B: Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

### Canadian WHMIS Information

#### A: General Product Information

Not regulated under WHMIS.

#### B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

### Additional Regulatory Information

#### A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

# Material Safety Data Sheet

Material Name: Mohawk Optiseal

ID: SB00081

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### MSDS History

1.0000-1.0001

### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; BLV=Biological Limit Values; CAN = Canadian DSL and NDSL Inventories status; CAS = Chemical Abstracts Service; CC = Closed Cup; CFR = Code of Federal Regulations; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; g/L = grams per Liter; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; mg/kg = milligrams per kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; NA, N/A, S.O. = Not available or Not Applicable; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; OC = Open Cup; OSHA = Occupational Safety and Health Administration; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; TWAEV = Time Weighted Average Exposure Value; WHMIS = Workplace Hazardous Materials Information System

End of Sheet SB00081



Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
 Revision Date: 8/18/2015 Date of Issue: 8/30/2012

Version: 1.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

Product Form: Mixture

Product Name: MT-800 Seam Sealer

### 1.2. Intended Use of the Product

Use of the substance/mixture: Flammable Vinyl Seam Sealer

### 1.3. Name, Address, and Telephone of the Responsible Party

Company

Mannington Mills, Inc.

P.O. Box 30 - Route 45

75 Mannington Mills Road

Salem, New Jersey 08079

General Information: (856) 935-3000

### 1.4. Emergency Telephone Numbers

Product/Medical Emergency Phone Number (24 Hours): (866) 359-5602

Transport Emergency:

Within the U.S. - CHEMTREC: (800) 424-9300

Outside the U.S. - CHEMTREC: +1-703-527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Flammable Liquid	Category 2
Acute Toxicity, inhalation	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2A
Reproductive toxicity	Category 2
Specific target organ toxicity - single exposure	Category 2
Aspiration hazard	Category 1
Acute aquatic toxicity	Category 2
Full text of H-phrases: see section 16	

### 2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



GHS02

GHS07

GHS05

Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H225 - Highly flammable liquid and vapor.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
 H336 - May cause drowsiness or dizziness.  
 H303 + H333 - May be fatal if swallowed or inhaled.  
 H332 - Harmful if inhaled

Precautionary Statements (GHS-US)

: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.  
 P233 - Keep container tightly closed.  
 P240 - Ground/bond container and receiving equipment.  
 P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P261 - Avoid breathing vapors, spray, mist.  
 P264 - Wash hands, forearms and face thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear eye protection, face protection, protective gloves.

# MT-800)Seam)Sealer)

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According)to)Federal)Register)Vol.)77,)No.)58)Monday,)March)26,)2012)Rules)and)Regulations

P303+P361+P353-) IF)ON)SKIN) (or)hair:)Take)off)immediately)all)contaminated) clothing.)Rinse)skin)with)water/shower.)  
P304+P340-) IF)INHALED:)Remove)person)to)fresh)air)and)keep)at)rest)in)a)position) comfortable)for)breathing.)  
P305+P351+P338-) IF)IN)EYES:)Rinse)cautiously)with)water)for)several)minutes.) Remove)contact)lenses,)if)present)and)easy)to)do.)Continue)rinsing.)  
P312-) Call)a)POISON)CENTER,)a)doctor)if)you)feel)unwell.)  
P337+P313-) If)eye)irritation)persists:)Get)medical)advice/attention.)  
P370+P378-) In)case)of)fire:)Use)foam,)extinguishing)powder,)carbon)dioxide)(CO<sub>2</sub>) to)extinguish.)  
P403+P233-) Store)in)a)well-ventilated)place.)Keep)container)tightly)closed.)  
P235-) Keep)cool.)  
P405-) Store)locked)up.)  
P501-) Dispose)of)contents/container)in)accordance)with)local,)regional,)national,) and)international)regulations.)

## 2.3.) Other)Hazards))

)

**OSHA)Hazards:**)Flammable)liquids,)Target)Organs)Effect,)Irritant,)Teratogen,)Reproductive)hazard.)

)

**Target)Organs:**)Liver,)Kidney,)Brain,)Bladder)

)

)

)

## 2.4.) Unknown)Acute)Toxicity)(GHS-US))

No)data)available)

)

## SECTION)3:)COMPOSITION/INFORMATION)ON)INGREDIENTS)

### 3.1.) Substance)

Not)applicable)

### 3.2.) Mixture)

Name)	Product)Identifier (CAS)No)	%	Classification)(GHS-US)
Methyl)Ethyl)Ketone)	78-93-3	32-37	See)Section)2.1
Cyclohexanone)	108-94-1	4-9%	See)Section)2.1
Tetrahydrofuran)	109-99-9	27-32%	See)Section)2.1

Full)text)of)H-phrases:)see)section)16)

)

## SECTION)4:)FIRST)AID)MEASURES)

### 4.1.) Description)of)First)Aid)Measures)

)))

**First-aid)Measures)General:**)Never)give)anything)by)mouth)to)an)unconscious)person.)If)you)feel)unwell,)seek)medical)advice)and) provide)this)safety)data)sheet)to)attending)medical)professional.)If)exposed)or)concerned:)Get)medical)advice/attention.)

**First-aid)Measures)After)Inhalation:**)Move)to)fresh)air.)If)not)breathing,)provide)rescue)breaths)and)seek)immediate)medical) attention.)If)breathing)is)difficult,)provide)oxygen)and)seek)immediate)medical)attention.)

**First-aid)Measures)After)Skin)Contact:**)Wash)with)soap)and)water,)consult)a)Physician.)

**First-aid)Measures)After)Eye)Contact:**)Flush)with)large)quantities)of)water)for)at)least)15)minutes)or)until)irritation)subsides.) Contact)a)Physician.)

**First-aid)Measures)After)Ingestion:**)Do)not)induce)vomiting.)If)irritation)or)complications)arise,)contact)a)Physician)or)Regional) Poison)Control)Center)immediately.)

### 4.2.) Most)important)symptoms)and)effects,)both)acute)and)delayed)

))

**Symptoms/Injuries:**)Causes)respiratory)tract,)eye,)and)skin)irritation.)Vapors)may)cause)drowsiness)or)dizziness.)May)be)harmful) if)swallowed.)

**Symptoms/Injuries)After)Inhalation:**)May)be)harmful)if)inhaled.)Causes)respiratory)tract)irritation.)Vapors)may)cause) drowsiness)and)dizziness.)

**Symptoms/Injuries)After)Skin)Contact:**)May)be)harmful)if)absorbed)through)skin.)Causes)skin)irritation.)

# MT-800)Seam)Sealer)

Safety)Data)Sheet)

According)to)Federal)Register)\\Vol.)77,)No.)58)\\Monday,)March)26,)2012)\\Rules)and)Regulations

**Symptoms/Injuries)After)Eye)Contact:))**Causes)eye)irritation.

**Symptoms/Injuries)After)Ingestion:))**(May)be)harmful)if)swallowed.)Aspiration)hazard)if)swallowed.)It)can)enter)lungs)and)cause)damage.)

**Chronic)Symptoms:))**None)expected)under)normal)conditions)of)use.

## **4.3.) Indication)of)Any)Immediate)Medical)Attention)and)Special)Treatment)Needed))**

If)you)feel)unwell,)seek)medical)advice)(show)the)label)where)possible.)

## **SECTION)5:))FIRE-FIGHTING))MEASURES)**

### **5.1.) Extinguishing)Media))**

**Suitable)Extinguishing)Media:))**Dry)chemical,)Carbon)dioxide(CO2),)Water)Spray,)Alcohol-resistant)foam.)

**Unsuitable)Extinguishing)Media:))**None)

### **5.2.) Special)Hazards)Arising)From)the)Substance)or)Mixture))**

**Fire)Hazard:))**Highly)flammable)liquid)and)vapor.)Hazardous)Combustion)Products)form)under)fire)conditions,)Carbon)Oxides.

**Explosion)Hazard:))**May)form)flammable/explosive)vapor-air)mixture.

**Reactivity:))**Reacts)with)Bases,)Oxidizing)agents,)Reducing)agents.

### **5.3.) Advice)for)Firefighters))**

**Precautionary)Measures)Fire:))**Material)is)volatile)and)readily)gives)off)vapors)which)may)travel)along)the)ground)or)be)moved)by)ventilation)and)ignited)by)pilot)lights,)flames,)sparks,)heaters,)smoking,)electric)motors,)static)discharge)or)other)ignition)sources)at)locations)near)the)material)handling)point.)

**Firefighting)Instructions:))**Use)water)spray)to)cool)unopened)containers.

**Protection)During)Firefighting:))**Wear)full)fire)fighting)turn-out)gear)(Full)Bunder)gar,)and)respiratory)protection)(SCBA).

**Other)Information:))**Refer)to)Section)9)for)flammability)properties.

## **SECTION)6:))ACCIDENTAL)RELEASE)MEASURES)**

### **6.1.) Personal)Precautions,)Protective)Equipment)and)Emergency)Procedures)**

**General)Measures:))**Avoid)breathing)(vapor,)mist,)spray.)Avoid)all)contact)with)skin,)eyes,)or)clothing.)

#### **6.1.1.) For)Non-emergency)Personnel))**

**Protective)Equipment:))**Use)appropriate)personal)protection)equipment)(PPE).

**Emergency)Procedures:))**Evacuate)unnecessary)personnel.

#### **6.1.2.) For)Emergency)Responders))**

**Protective)Equipment:))**Use)personal)protective)equipment)as)prescribed)in)Section)8.2.)

**Emergency)Procedures:))**Evacuate)personnel)to)Safe)Areas.)Eliminate)all)ignition)sources.)Stop)leak)if)safe)to)do)so)and)ventilate)area.)Beware)of)vapors)accumulating)to)form)explosive)concentrations.)Vapors)are)2.5X)denser)than)air)and)can)accumulate)in)low)areas.)

### **6.2.) Environmental)Precautions))**

Contain)any)spills)with)dikes)or)absorbents)to)prevent)migration)and)entry)into)sewers)or)streams.)Do)not)allow)to)enter)drains)or)water)courses.)Contact)competent)authorities)after)a)spill.)

### **6.3.) Methods)and)Material)for)Containment)and)Cleaning)Up))**

**For)Containment:))**Contain)any)spills)with)dikes)or)absorbents)to)prevent)migration)and)entry)into)sewers)or)streams.

**Methods)for)Cleaning)Up:))**Absorb)and/or)contain)spill)with)inert)material.)Do)not)take)up)in)combustible)material)such)as:saw)dust)or)cellulosic)material.)Use)only)non-sparking)tools.)If)vacuuming)up)use)only)electrically-protected)vacuum.)Use)of)wet-brushing)technique)is)acceptable.)Collect)absorbed/spilled)material)and)place)into)a)sealed,)labeled)container)for)proper)disposal)according)to)local,)state,)and)federal)regulations.)

### **6.4.) Reference)to)Other)Sections))**

For)further)information)refer)to)section)13.)See)heading)8,)Exposure)Controls)and)Personal)Protection.)

## **SECTION)7:))HANDLING)AND)STORAGE)**

### **7.1.) Precautions)for)Safe)Handling))**

**Handling)Information:))**KEEP)OUT)OF)THE)REACH)OF)CHILDREN.)Avoid)skin)and)eye)contact.)Avoid)breathing)vapors.)Use)only)in)well)ventilated)areas.)Keep)containers)tightly)closed)when)not)in)use.)

**Hygiene)Measures:))**Handle)in)accordance)with)good)industrial)hygiene)and)safety)procedures.)After)use)of)this)material,)always)wash)hands)and)other)exposed)areas)with)mild)soap)and)water.)Always)wash)hands)before)eating)and)drinking)and)when)leaving)work.)Mildly)contaminated)work)clothing)must)be)removed)and)aired)out)and)laundered)prior)to)reuse.)Significantly)contaminated)work)clothing)must)be)immediately)removed)and)exposed)personnel)given)appropriate)first)aid)and)medical)attention.)Dispose)of)significantly)contaminated)clothing)along)with)cleaned)up)spill)materials.)

### **7.2.) Conditions)for)Safe)Storage,)Including)Any)Incompatibilities))**

**Technical)Measures:))**Vapors)are)denser)than)air)2.5:1)and)will)accumulate)in)low)areas.

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**Storage)Conditions:)**)Store)away)from)caustics)and)oxidizers.)Keep)away)from)heat,)sparks,)and)flames.)Keep)containers)tightly)closed)when)not)in)use.)Keep)containers)from)excessive)heat)and)freezing.)Use)and)store)containers)in)a)well)ventilated)area.)

**Incompatible)Products:)**)Reacts)with)Bases,)Oxidizing)agents,)Reducing)agents.)

**Storage)Temperature:)**)Not)established.)

## 7.3.) Specific)End)Use(s))

Solvent-based)Seam)Sealer)for)resilient)flooring)products.)

## SECTION)8:)EXPOSURE)CONTROLS/PERSONAL)PROTECTION)

### 8.1.) Control)Parameters)

For)substances)listed)in)section)3)that)are)not)listed)here,)there)are)no)established)exposure)limits)from)the)manufacturer,)supplier,)importer,)or)the)appropriate)advisory)agency)including:)ACGIH)(TLV),)NIOSH)(REL),)or)OSHA)(PEL.)

Methyl)ethyl)ketone)(78-93-3)		
USA)ACGIH)	ACGIH)TWA)(ppm)	200)ppm
USA)ACGIH)	ACGIH)STEL)(ppm)	300)ppm
USA)NIOSH)	NIOSH)REL)(TWA))(mg/m <sup>3</sup> )	590)mg/m <sup>3</sup>
USA)NIOSH)	NIOSH)REL)(TWA))(ppm)	200)ppm
USA)NIOSH)	NIOSH)REL)(STEL))(mg/m <sup>3</sup> )	885)mg/m <sup>3</sup>
USA)NIOSH)	NIOSH)REL)(STEL))(ppm)	300)ppm
USA)IDLH)	US)IDLH)(ppm)	3000)ppm
USA)OSHA)	OSHA)PEL)(TWA))(mg/m <sup>3</sup> )	590)mg/m <sup>3</sup>
USA)OSHA)	OSHA)PEL)(TWA))(ppm)	200)ppm
)		
Cyclohexanone)(108-94-1)		
USA)ACGIH)	ACGIH)TLV)(mg/m <sup>3</sup> )	50)mg/m <sup>3</sup>
USA)ACGIH)	ACGIH)TLV)(ppm)	20)ppm
USA)NIOSH)	NIOSH)REL)(TWA))(mg/m <sup>3</sup> )[SKIN]	100)mg/m <sup>3</sup>
USA)NIOSH)	NIOSH)REL)(TWA))(ppm)[SKIN]	25)ppm
USA)IDLH)	US)IDLH)(ppm)	700)ppm
USA)OSHA)	OSHA)PEL)(TWA))(mg/m <sup>3</sup> )	200)mg/m <sup>3</sup>
USA)OSHA)	OSHA)PEL)(TWA))(ppm)	50)ppm
)		
Tetrahydrofuran)(109-99-9)		
USA)ACGIH)	ACGIH)STEL)(ppm)	100)ppm
USA)ACGIH)	ACGIH)TLV)TWA)(ppm)	50)ppm
USA)NIOSH)	NIOSH)REL)(TWA))(mg/m <sup>3</sup> )[SKIN]	100)mg/m <sup>3</sup>
USA)NIOSH)	NIOSH)REL)(TWA))(ppm)[SKIN]	25)ppm
USA)IDLH)	US)IDLH)(ppm)	2000)ppm
USA)OSHA)	OSHA)PEL)(TWA))(mg/m <sup>3</sup> )	590)mg/m <sup>3</sup>
USA)OSHA)	OSHA)PEL)(TWA))(ppm)	200)ppm
USA)OSHA)	OSHA)PEL)(STEL))(mg/m <sup>3</sup> )	735)mg/m <sup>3</sup>
USA)OSHA)	OSHA)PEL)(STEL))(ppm)	250)ppm

### 8.2.) Exposure)Controls))

Appropriate)Engineering)Controls)

) Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposures below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapors before entering.

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## Personal)Protective)Equipment)

:



)Insufficient)ventilation)requires)respiratory)protection.)



)Protective)goggles)or)Safety)Glasses)along)with)a)Face)Shield.)



)Chemical)resistant)gloves.)



)Protective)clothing.)

## Materials)for)Protective)Clothing)

) Impervious)clothing,)Flame)retardant)protective)clothing.)The)type)of)protective)equipment) must)be)selected)according)to)the)concentration)and)amount)of)the)dangerous)substance)at) the)specific)workplace.

## Hand)Protection)

) Use chemical resistant gloves when handling product. Check with glove supplier for appropriate chemical resistant materials. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands following use.

## Eye)Protection)

) Use ANSI (US) or EN 166 (EU) approved safety goggles or safety glasses plus face shield any time there is risk of eye/face exposure. Note that use of NIOSH-approved full face respirator provides adequate eye/face protection.

## Skin)and)Body)Protection)

) Impervious clothing, Flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory)Protection)

) When risk assessment shows air-purifying respirators are appropriate, use full-face respirator with multi-purpose combination cartridge NIOSH (US) or type AXBEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Environmental)Exposure)Controls)

) Do)not)allow)the)product)to)be)released)into)the)environment.)

## Consumer)Exposure)Controls)

) Do)not)eat,)drink)or)smoke)during)use.)

## SECTION)9:))PHYSICAL)AND)CHEMICAL)PROPERTIES)

### 9.1.) Information)on)Basic)Physical)and)Chemical)Properties)

Physical)State)	: Liquid
Appearance)	: Amber)to)Clear
Odor)	: No)data)available
Odor)Threshold)	: No)data)available
pH)	: Not)Applicable
Evaporation)Rate)	: 5.7)n-Butyl)Acetate
Melting)Point/Range)Point)	: -87°C)(-125°F) Based)on)first)boiling)component)(MEK)
Freezing)Point)	: Not)Applicable
Boiling)Point)	: 80°C)(176°F) Based)on)first)boiling)component)(MEK))
Flash)Point)	: -3.0)Deg.)C)(27)F)Closed)Cup)Based)on)(MEK))
Ignition)Temperature)	: 516°C)(961°F)Based)on)(MEK)
Decomposition)Temperature)	: No)data)available
Flammability)(solid,)gas))	: No)data)available
Vapor)Pressure)	: 95 hPa (71 mmHg) at 20 °C (68.0 °F) (MEK)
Relative)Vapor)Density)at)20°C)	: 2.49 (Air)=)1.0)
Relative)Density)	: No)data)available
Specific)Gravity)	: 0.805g/ml)at)25°C)(77°F))(MEK)

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Specific)gravity)\\density)	: 0.805)g/ml)at)25)°C)(77)°F))(MEK)
Solubility)	: Water:)Miscible
Partition)Coefficients)	: Log)Pow:))0.29
Viscosity)	: No)data)available
Lower)Flammable)Limit)	: 1.8 %
Upper)Flammable)Limit)	: 10.1 %
9.2.) Other)Information)))	
VOC)content)	: )63)to)78)wt%

## SECTION)10:)STABILITY)AND)REACTIVITY)

- 10.1.)))))Reactivity:)Vapors)may)form)explosive)mixtures)with)air.)
- 10.2.)))))Chemical)Stability:)Stable)under)recommended)storage)conditions.)
- 10.3.)))))Possibility)of)Hazardous)Reactions:)Vapors)may)form)explosive)mixtures)with)air.)
- 10.4.)))))Conditions)to)Avoid:)Heat,)Flames)and)sparks,)Extremes)of)temperature)and)direct)sunlight.)
- 10.5.)))))Incompatible)Materials:)Bases,)Oxidizing)agents,)Reducing)agents.)
- 10.6.)))))Hazardous)Decomposition)Products:)Hazardous)Decomposition)Products)formed)under)fire)conditions,)Carbon)Oxides.)  
Other)decomposition)products)–)no)data)available.)

## SECTION)11:)TOXICOLOGICAL)INFORMATION)

### 11.1.) Information)On)Toxicological)Effects)

Acute)Toxicity:))

Oral)LD50:)	
LD50)oral)–)rat)	2,737 mg/kg
Remarks:))	Behavioral:)Altered)sleep)time)(including)change)in)righting)reflex) Behavioral:)Tremor)
)	
Inhalation)LC50:)	
LC50)Inhalation)–)mouse)–)4)h)	32,000)mg/m3
LC50)Inhalation)–)mammal)–)4)h)	38,000)mg/m3
)	
Dermal)LD50:)	
LD50)Dermal)–)rabbit)	6,480)mg/kg
)	
Other)information)on)Acute)Toxicity:)	
No)data)available)	
)	

Skin)Corrosion/Irritation:)Skin)–)rabbit)–)Skin)irritation)–)24)h.

Serious)Eye)Damage/Irritation:)No)data)available.)

Respiratory)or)Skin)Sensitization:)No)data)available.)

Germ)Cell)Mutagenicity:)No)data)available.)

Carcinogenicity:)No)data)available.)

IARC:

No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by IARC.

ACGIH:

No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by ACGIH.

NTP:

No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA:

No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by OSHA.

Reproductive)Toxicity:)No)data)available.)

Teratogenicity:)This)product)is)not)reported)to)produce)teratogenic)effect)in)humans.)

)

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Specific)Target)Organ)Toxicity)-)Single)Exposure)(GHS): May)cause)drowsiness)or)dizziness.

Specific)Target)Organ)Toxicity)-)Repeated)Exposure (GHS): No)data)available.

Aspiration)Hazard:)(No)data)available.)

)

Potential)Health)Effects:)

)

Symptoms/Injuries)After)Inhalation:)(May)be)harmful)if)inhaled.))Causes)respiratory)tract)irritation.))Vapors)may)cause)drowsiness)and)dizziness.)

Symptoms/Injuries)After)Skin)Contact:)(May)be)harmful)if)absorbed)through)skin.))Causes)skin)irritation.)

Symptoms/Injuries)After)Eye)Contact:)(Causes)eye)irritation.)

Symptoms/Injuries)After)Ingestion:)(May)be)harmful)if)swallowed.)

Signs)and)Symptoms)of)Exposure:)(Central)nervous)system)depression.))Gastrointestinal)disturbance,)narcosis.)

Synergistic)Effects:)(No)data)available.)

Additional)Information:)(RTECS:)(EL6475000)

)

## SECTION)12:)(ECOLOGICAL)INFORMATION)

### 12.1.) Toxicity)))

Toxicity)to)fish:)	
NOEC)-)Cyprionodon)variegates)(Sheepshead)minnow)	400)mg/l)(96)h)
LC50)-)Pimephales)promelas)(Flathead)minnow)	3,100)to)3,200)mg/l)(96)h)
LC50)-)Daphnia)magna)(Water)flea))	520)mg/l)(48)h)
EC50)-)Daphnia)magna)(Water)flea))	7,060)mg/l)(24)h)

### 12.2.) Persistence)and)Degradability)))

No)Data)Available)

### 12.3.) Bioaccumulative)Potential)))

No)Data)Available)

### 12.4.) Mobility)in)Soil)))

No)Data)Available)

### 12.5.) Other)Adverse)Effects)

No)Data)Available)

### 12.6.) PBT)and)vPvB)Assessment:)

No)Data)Available)

)

## SECTION)13:)(DISPOSAL)CONSIDERATIONS

Product:))

Burn)in)a)chemical)incinerator)equipped)with)an)afterburner)and)scrubber)but)exert)extra)care)in)igniting)as)this)material)is)highly)flammable.)

WASTE)MANAGEMENT/DISPOSAL:)(Dispose)of)according)to)Federal,)State,)and)Local)Standards.))Discarded)material)should)be)incinerated)at)a)permitted)facility.))Liquids)cannot)be)disposed)of)in)a)landfill.))Do)not)reuse)empty)containers.))State)and)Local)regulations/restrictions)are)complex)and)may)differ)from)Federal)regulations.))Responsibility)of)proper)waste)disposal)is)with)the)owner)of)the)waste.)

EPA)WASTE)CODE)-)If)discarded)(40)CFR)261:)(D001)- Ignitable.

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## SECTION)14:)(TRANSPORT)INFORMATION)

### 14.1.)In)Accordance)with)DOT)))))))

Proper)Shipping)Name))) : UN1133,)Adhesive,)containing)a)flammable)liquid  
 Hazard)Class) : 3)  
 Identification)Number))) : UN1133)  
 Label)Codes) : 3)  
 Packing)Group))) : II)  
 ERG)Number) : 127)



### 14.2.)In)Accordance)with)IMDG)))))))

Proper)Shipping)Name))) : Adhesive,)containing)a)flammable)liquid  
 Hazard)Class) : 3)  
 Identification)Number))) : UN1133)  
 Packing)Group))) : II)  
 Label)Codes) : 3)  
 EmS-No.)(Fire)) : F-E)  
 EmS-No.)(Spillage)) : S-D)  
 MFAG)Number) : 130)



### 14.3.)In)Accordance)with)IATA)))))))

Proper)Shipping)Name))) : Adhesive,)containing)a)flammable)liquid  
 Packing)Group))) : II)  
 Identification)Number))) : UN1133)  
 Hazard)Class) : 3)  
 Label)Codes) : 3)  
 ERG)Code)(IATA)) : 3L)  
 DANGER:)(Highly)Flammable)Liquid)and)Vapor)



## SECTION)15:)(REGULATORY)INFORMATION)

### 15.1)US)Federal)Regulations))

SARA)302)Components:)
SARA)302:)(No)chemicals)in)this)material)are)subject)to)the)reporting)requirements)of)SARA)Title)III)Section)302.
SARA)313)Components:)
SARA)SECTION)313:)(The)materials)do)not)contain)any)chemical)components)with)known)CAS)numbers)that)exceeds)the)threshold)(De)Minimis)reporting)levels)established)by)SARA)Title)III,)Section)313.)
SARA)311/312)Hazard:)(Fire)hazard,)Acute)Health)Hazard,)Chronic)Health)Hazard.

### 15.2)US)State)Regulations))

Massachusetts)Right)to)Know)Components:)

)	CAS)#)	Revision)Date)
Methyl)Ethyl)Ketone)	78-93-3)	8/30/2013)
Tetrahydrofuran)	109-99-9)	)
Cyclohexanone)	108-94-1)	)

Pennsylvania)Right)to)Know)Components:)

)	CAS)#)	Revision)Date)
Methyl)Ethyl)Ketone)	78-93-3)	8/30/2013)
Tetrahydrofuran)	109-99-9)	)
Cyclohexanone)	108-94-1)	)



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New)Jersey)Right)to)Know)Components:

)	CAS)#)	Revision)Date)
Methyl)Ethyl)Ketone)	78-93-3)	8/30/2013)
Tetrahydrofuran)	109-99-9	
Cyclohexanone)	108-94-1)	)

California)Prop.)65)Components:)

WARNING!)This)product)does)not)contain)any)chemical)known)to)the)State)of)California)to)cause)birth)defects)or)other)reproductive)harm.

## SECTION)16:)OTHER)INFORMATION,)INCLUDING)DATE)OF)PREPARATION)OR)LAST)REVISION)

Revision)Date) : 08/18/2015  
 HMIS)RATINGS)-)HEALTH:2)FLAMMABILITY:3 REACTIVITY:0  
 Other)Information) : Reason)for)revision:)To)correct)SDS)Number/Change)OSHA)Hazcom)information.)

)  
 HAP)less)water,)less)exempt)solvent:) 292.75)gm/L)and)2.45#)Per)Gal.  
 VOC)less)water,)less)exempt)solvent:) 681.10)gm/L)and)5.70#)Per)Gal.  
 Product)Shelf)Life:) 12)Months)from)the)date)of)Mfg.)in)an)unopened,)sealed)container.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS)US)(GHS)HazCom))

# SAFETY DATA SHEET

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Date: 06/07/2016

Non-Hazardous according to criteria of worksafe Australia  
**NEXUS 840 PRESSURE SENSITIVE ADHESIVE**

Revision: 0

---

## 1. Substance/preparation and company identification

### 1.1 Product Identifier

Product Name: Nexus 840 Pressure Sensitive Adhesive

### 1.2 Product use and description

Water-based pressure sensitive adhesive for flooring applications.

### 1.3 Details of the supplier of the safety data sheet

Nexus Adhesives Pty Ltd  
42 Healey Road, Dandenong South.  
Victoria 3175 Australia  
Telephone: +61 3 9706 4022  
Telefax number: +61 3 9706 4122

### 1.4 Emergency telephone number

0417 489 877 [within Australia]

---

## 2. Hazard identification

### 2.1 GHS Hazard Classification:

**Non-Hazardous** according to criteria of WHS and ADG codes and regulations.

**Non-Dangerous Goods**

### 2.2 Hazard Statements

NOT APPLICABLE

### 2.3 Hazard Pictogram

NOT APPLICABLE

### 2.3 Signal Word

NOT APPLICABLE

### 2.4 Precautionary Statements - Prevention

NOT APPLICABLE

### 2.5 Precautionary Statements – Response

NOT APPLICABLE

### 2.6 Precautionary Statements – Storage

NOT APPLICABLE

### 2.7 Other hazards

Not Determined

---

## 3. Composition/information on ingredients

### Chemical nature

Liquid

# SAFETY DATA SHEET

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Date: 06/07/2016

Non-Hazardous according to criteria of worksafe Australia  
**NEXUS 840 PRESSURE SENSITIVE ADHESIVE**

Revision: 0

Chemical Name	CAS No.	Conc (%w/w)	Classification
Non-Hazardous ingredients	-	100%	

---

## 4. First-aid measures

### 4.1 Description of first aid measures:

#### General advice:

Remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air and seek medical attention if breathing becomes difficult.

#### On skin contact:

Remove contaminated clothing, Wash thoroughly with soap and water.

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Rinse mouth immediately and then drink plenty of water, DO NOT induce vomiting unless directed to do so by a physician. Seek medical attention immediately.

#### Advice to doctor:

Treat symptomatically

---

## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media:

Water fog, dry extinguishing media, foam, carbon dioxide

Product is not known to be flammable, combustible, pyrophoric or explosive.

### 5.2 Special hazards arising from the substance and mixture

Burning produces irritating, toxic and obnoxious fumes.

### 5.3 Advice for fire fighters:

Full protective clothing and self-contained breathing apparatus when necessary

---

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid accidents, clean up immediately. Slippery when spilt.

### 6.2 Environmental precautions

Prevent spillage from reaching drains or waterways. If product does enter a waterway.

### 6.3 Methods and materials for containment and cleaning up

Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labeled container and dispose of promptly. Recycle if possible.

---

## 7. Handling and storage

# SAFETY DATA SHEET

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Non-Hazardous according to criteria of worksafe Australia  
**NEXUS 840 PRESSURE SENSITIVE ADHESIVE**

Revision: 0

## 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Avoid creating dust.

## 7.2 Conditions for safe storage, including any incompatibilities

Not classified as a dangerous good for storage or transport. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container and make sure label stay intact.

## 7.3 Specific end use

See section 1.2 for further information

---

## 8. Exposure controls and personal protection

### 8.1 Control parameters

Exposure Limit: Not known

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation of the working area.

#### Hand protection:

Suitable chemical resistant safety gloves (PVC)

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Respiration apparatus:

Self-contained breathing apparatus. Suitable half mask respirator with filter P2 (e.g. EN 143)

#### Environmental exposure control:

See section 6 for further information.

#### General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

---

## 9. Physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Colour:</b>	White
<b>Odour:</b>	mild odour
<b>Odour threshold:</b>	No data available
<b>pH value:</b>	Approx. 8 – 9.5
<b>Melting/freezing point:</b>	No data available
<b>Initial boiling point:</b>	No data available
<b>Flash point:</b>	Not Applicable
<b>Evaporation rate:</b>	No data available
<b>Flammability:</b>	Not Applicable
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	Approx. 1.0 g/L
<b>Solids content:</b>	49 – 53%
<b>Solubility:</b>	No data available
<b>Partition coefficient:</b>	No data available
<b>Auto ignition temperature:</b>	Not applicable
<b>Viscosity:</b>	No data available
<b>Specific heat value:</b>	No data available

# SAFETY DATA SHEET

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Date: 06/07/2016

Non-Hazardous according to criteria of worksafe Australia  
**NEXUS 840 PRESSURE SENSITIVE ADHESIVE**

Revision: 0

**VOC content:** 10 g/L  
**% volatile:** No data available  
**Saturated vapour concentration:** No data available

---

## 10. Stability and reactivity

### 10.1 Reactivity

No data available for this product

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Conditions to avoid

Temperature above 40 degrees centigrade or below 0 degrees centigrade

### 10.5 Incompatible materials and possible hazardous reactions

Oxidising agents, reducing agents.

### 10.6 Hazardous decomposition products

Will not decompose if stored and used as recommended.

---

## 11. Toxicological information

### 11.1 Information on route of exposure and symptoms

#### If inhaled:

May cause nausea and vomiting

#### On skin contact:

May cause sensitisation by skin contact.

#### On contact with eyes:

May cause inflammation and may damage the cornea.

#### On ingestion:

May cause nausea and vomiting.

### 11.2 Numerical measure of toxicity

Not Available

---

## 12. Ecological information

### 12.1 Ecotoxicity

Not Available

### 12.5 Other adverse effects

Not Available

---

## 13. Disposal considerations

### 13.1 Safe handling and disposal methods

Dispose of this material and its container, sending them to local company authorised for collection of hazardous waste.

# SAFETY DATA SHEET

Page 5 of 5

Date: 06/07/2016

Non-Hazardous according to criteria of worksafe Australia  
**NEXUS 840 PRESSURE SENSITIVE ADHESIVE**

Revision: 0

## 13.2 Disposal of any contaminated packaging

Reuse containers if possible, or dispose of in an authorised landfill.

---

## 14. Transport information

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### 14.1 Environmental hazards

Environmental hazards	NO
Marine pollutant	NO

---

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product

No other information available

### 15.2 Poisons schedule number

None allocated

---

## 16. Other information

Any other intended applications should be discussed with the manufacturer.

Revisions:	Date	Sections Reviewed
0	12/10/2016	-

<b>Contact</b>	
<b>Technical</b>	<b>Sales</b>
0417489877	0448395091

Asterisk \* in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agree property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.



# eKoTac® Modular Adhesive

## Product Identification

Product Class: Aqueous Polymer  
 Product Name: Non-PVC Modular Carpet Tile Adhesive  
 Trade Name: eKoTac®  
 Hazardous Ingredients: None known  
 \*All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

## Physical Data

Boiling Point: 212° F  
 Vapor Density: Same as water.  
 Evaporation Rate: Same as water.  
 Appearance: Creamy white  
 Odor: Low odor  
 Weight per Gallon: 8.2 lbs.  
 pH: 9.5 typical  
 Percent Volatile by Weight: 34-36% (as water)  
 Solubility in Water: Dispersible  
 V.O.C. (grams per liter): "zero" grams/liter

## Fire and Explosion Hazard Data

Flammable Limits: Non-flammable  
 Flash Point: > 212 deg. F  
 Flammability Classification: OSHA: None, DOT: None  
 Extinguishing Media: CO2, chemical foam, water fog

## Special Fire Fighting Features

Wear self-contained breathing gear when in confined area.

## Health Hazard Data

Threshold Limit Value: Not established  
 Effects of Overexposure: No known chronic overexposure effects.  
 Emergency and First Aid Procedure: Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician.  
 Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician.  
 Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

## Reactivity Data

Conditions to avoid: Excessive heat or cold  
 Stability: Stable  
 Incompatibility: None known.  
 Hazardous Decomposition Products: None known;  
 Normal (CO2, CO)  
 Hazardous Polymerization: Will not occur

## Precautions for Handling & Use

Ventilation: Local ventilation  
 Protective Gloves: Recommended  
 Eye Protection: Safety glasses  
 Hygienic Practices: Wash with soap and water after exposure  
 Respiratory Protection: Not required with adequate ventilation  
 Other Protective Equipment: None  
 Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Dispose of in accordance with Federal, State and Local regulations.

## Special Precautions/Other Comments

Precautions to be taken in handling and storing: Store inside at a temperature of 60°-100° F. Do not allow product to freeze.  
 Other precautions: None

## Transportation Data

D.O.T. Hazard Class: Unregulated

## 24-Hour Emergency

Chemtrec: 800 424 9300

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

**SECTION 1: IDENTIFICATION**

**1.1. Product Identifier**

Product Form: Mixture

Product Name: nora® 485

**1.2. Intended Use of the Product**

Use of the Substance/Mixture: No use is specified.

**1.3. Name, Address, and Telephone of the Responsible Party Company**

nora systems, Inc.

9 Northeastern Blvd

Salem, NH 03079

T 800-332-NORA

[www.nora.com/us](http://www.nora.com/us)

**1.4. Emergency Telephone Number**

Emergency Number: 800-424-9300 CHEMTREC

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the Substance or Mixture**

Classification (GHS-US)

Not classified

**2.2. Label Elements**

GHS-US Labeling: No labeling applicable

**2.3. Other Hazards**

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**2.4. Unknown Acute Toxicity (GHS-US)** Not available

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1. Substances**

Name	Product Identifier	%(w/w)
Quartz*	(CAS No) 14808-60-7	0.1 - 1

\*This product contains a material that may be hazardous when present as an airborne dust. Since this product is in a liquid form, the material is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with this material are not applicable to this product.

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of First Aid Measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.



### 4.2.)(Most)Important)Symptoms)and)Effects)Both)Acute)and)Delayed)

General: None expected under normal conditions of use.

Inhalation: May cause respiratory irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: May cause minor eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

### 4.3.)Indication)of)Any)Immediate)Medical)Attention)and)Special)Treatment)Needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1.)Extinguishing)Media)

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2.)Special)Hazards)Arising)From)the)Substance)or)Mixture)

Fire Hazard: Product is not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions are unlikely to occur under normal circumstances.

### 5.3.)Advice)for)Firefighters)

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not allow run-off from firefighting to enter drains or water courses. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

Other Information: Refer to Section 9 for flammability properties.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1.)Personal)Precautions,)Protective)Equipment)and)Emergency)Procedures

General Measures: Avoid all contact with skin eyes, or clothing. Do not breathe vapor, mist, spray.

#### 6.1.1.)For)Non-Emergency)Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

#### 6.1.2.)For)Emergency)Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2.)Environmental)Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3.)Methods)and)Material)for)Containment)and)Cleaning)Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Place absorbed material in closed containers for disposal. Clean up spills immediately and dispose of waste safely. Notify authorities if product enters sewers or public waters.

### 6.4.)Reference)to)Other)Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

#### 7.3. Specific End Use(s)

No use is specified

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

#### 8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State:	Paste
Appearance:	Off white paste
Odor:	Mild odor
Odor Threshold:	Not available
pH:	9.0 – 10.0
Evaporation Rate:	Not available
Melting Point:	Not available
Freezing Point:	≈ 32 °F (0 °C)
Boiling Point:	≈ 212 °F (100.00 °C) (aqueous phase)
Flash Point:	None
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Flammability (solid, gas):	Not available

# nora® 485)

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Lower Flammable Limit:	None
Upper Flammable Limit:	None
Vapor Pressure:	Same as water
Relative Vapor Density at 20 °C:	Same as water
Relative Density:	Not available
Specific Gravity:	1.1648
Solubility:	Not available
Partition Coefficient: N-Octanol/Water:	Not available
Viscosity:	Not available
Explosion Data – Sensitivity to Mechanical Impact:	Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge:	Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**10.1.) Reactivity** Hazardous reactions will not occur under normal conditions.

**10.2.) Chemical Stability** Stable under recommended handling and storage conditions (see section 7).

**10.3.) Possibility of Hazardous Reactions** Hazardous polymerization will not occur.

**10.4.) Conditions to Avoid** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**10.5.) Incompatible Materials** Strong acids. Strong bases. Strong oxidizers.

**10.6.) Hazardous Decomposition Products** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1.) Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

pH: 7.5 - 10

Serious Eye Damage/Irritation: Not classified

pH: 7.5 - 10

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause mild skin irritation.

Symptoms/Injuries After Eye Contact: May cause minor eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

#### 11.2.) Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

# nora®485)

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity)) No additional information available.

12.2. Persistence and Degradability))) Not available

12.3. Bioaccumulative Potential

12.4. Mobility in Soil))))) Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods)

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG) Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations)

15.2. US State Regulations)

This product does not contain any chemicals listed under Proposition 65.

15.3. Canadian Regulations)

nora®485)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria.
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION)))

Revision Date:) 05/11/2015

This document has been prepared in accordance with the SDS requirements of the OSHA

Other Information:) Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document)

nora systems, Inc.

T 800-332-NORA

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2



## SAFETY DATA SHEET (SDS)

### NuBroadlok Premium Adhesive

#### 1. Product and Company Identification

**Product Name:** NuBroadlok Premium Multipurpose Adhesive  
**Synonyms:** NuBroadlok  
**Chemical Family:** Waterbase Adhesive  
**CAS Number:**  
**Chemical Name:**

**Supplier's details:** Mohawk Group, Mohawk Industries, Inc.  
Product Safety & Regulatory Affairs  
160 South Industrial Blvd  
Calhoun, Georgia 30701  
USA  
1-800-424-9300

**EMERGENCY:** 1-800-833-6954

**TRANSPORTATION EMERGENCY:** Call Chemtrec: (800) 424-9300

#### 2. Hazards Identification

**GHS Label Elements:**

**Hazard Class**

Class: Eye Damage/Irritation; Category 2B

Class: Skin Corrosion/Irritation; Category 3

**Exclamation Mark**



**Signal Word:** Warning

**Hazard Statements:**

H303: May be harmful if swallowed

H316: Causes mild skin irritation

H320: Causes mild eye irritation

**Precautionary Statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash...thoroughly after handling.

Material Name: Mohawk NuBroadlok Premium Adhesive

P304+340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses.  
 P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Emergency Overview

**CAUTION! Color:** Off White Creamy **Form:** Liquid **Odor:** Slight, Ammonia  
 Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. May cause skin irritation. Causes eye irritation.

### Potential Health Effects

**Primary Routes of Entry:** Skin Contact, Eye Contact, Ingestion, Inhalation

**Medical Conditions Aggravated by** Skin disorders, Respiratory disorders, Eye disorders

## 3. Composition/Information on Ingredients

### Hazardous Components

The below components are hazardous according to the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Components	Weight %	CAS Number
None Known		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First Aid Measures

### Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. If irritation Call a physician immediately.

### Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops. Get medical attention if irritation develops.

### Inhalation

If inhaled, remove to fresh air. Get medical attention if irritation develops.

### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

Material Name: Mohawk NuBroadlok Premium Adhesive	
---	--

## 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** CO<sub>2</sub>, Chemical Foam, water fog extinguishing media are suitable.

### Special Fire Fighting Procedures

Firefighters should be equipped with protective clothing self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

### Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Dried material may produce CO, CO<sub>2</sub>, NO<sub>x</sub> and hydrocarbons

## 6. Accidental Release Measures

### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

Dispose of in accordance with Federal, State and Local Regulations

## 7. Handling and Storage

### Storage Temperature:

**minimum:** 40 °F -- Do not allow product to freeze.

**maximum:** 90 °F-- Avoid Excessive Heat

### Storage Period

6 Months

### Handling/Storage Precautions

Avoid breathing dust, vapor, or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

## 8. Exposure Controls / Personal Protection

### Not Established

#### Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

#### Respiratory Protection

Not required with adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

#### Hand Protection

Permeation resistant gloves.

#### Eye Protection

Splash goggles.

**Skin and body protection**

Wear cloth work clothing including long pants and long-sleeved shirts.

**Additional Protective Measures**

Employees should wash with soap and water their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations shall be available.

**9. Physical and Chemical Properties**

<b>Form:</b>	Off White Creamy Liquid
<b>Odor:</b>	Mild sweet/resinous odor
<b>Color:</b>	Off White Creamy/viscous
<b>pH:</b>	9.5 typical
<b>Boiling Point/Range:</b>	Approximately 212 °F
<b>Freezing Point:</b>	Approximately 0 °C (32 °F)
<b>Flash Point:</b>	> 212 °F
<b>Vapor Pressure:</b>	Same as Water
<b>Specific Gravity:</b>	1.0 (water =1)
<b>Bulk Density:</b>	9.5 lb/gal

**10. Stability and Reactivity****Hazardous Reactions**

Hazardous polymerization does not occur.

**Stability**

Stable

**Conditions to avoid**

Excessive heat or cold

**Materials to avoid/Incompatibility**

None known, Normal (CO<sub>2</sub>, CO)

**Hazardous decomposition products**

None

**11. Toxicological Information**

No Information Available

**12. Ecological Information**

No Information Available



### 13. Disposal Considerations

#### Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

#### Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

### 14. Transportation information

#### Land transport (DOT)

Non-Regulated

#### Sea transport (IMDG)

Non-Regulated

#### Air transport (ICAO/IATA)

Non-Regulated

### 15. Regulatory Information

#### United States Federal Regulations

**OSHA Hazcom Standard Rating:** Slight Health Hazards

**US. Toxic Substances Control Act:** All Ingredients are listed This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

#### Components

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

#### Components

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

#### Components

None

### State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

### **Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists: New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:**

<u>Weight %</u>	<u>Components</u>	<u>CAS-No</u>
None		

### **California Prop. 65:**

To the best of our knowledge, this product does not contains chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
None		

## **16. Other Information**

### HMIS Rating

<b>Health</b>	1
<b>Flammability</b>	0
<b>Reactivity</b>	0
<b>Other</b>	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Mohawk Industries, Inc. method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and/or NFPA ratings are provided by Mohawk Industries, Inc. as a customer service.

Contact Person: Corporate Safety Department  
Tele: (706) 272-9629  
Version Date: 07/29/2016  
Report Version: 2.0

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Mohawk Industries, Inc. The information in this MSDS relates only to the specific material designated herein. Mohawk Industries, Inc. assumes no legal responsibility for use of or reliance upon the information in this SDS.

## Safety Data Sheet

### PLANIPATCH

Safety Data Sheet dated: 5/26/2015 - version 1

Date of first edition: 5/26/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: PLANIPATCH

### Recommended use of the chemical and restrictions on use

Recommended use: Cement Patching Compound

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 1A	May cause cancer if inhaled.
STOT RE 1	Causes damage to organs through prolonged or repeated exposure if inhaled.

### Label elements

#### Symbols:



Danger

Code	Description
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260.B	Do not breathe dust.
P264.2	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280.I	Wear protective gloves and eye protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310.A	Immediately call a POISON CENTER.

P314	Get medical advice/attention if you feel unwell.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
5-10 %	Gypsum	CAS:13397-24-5	STOT SE 3, H335
5-10 %	Portland cement	CAS:65997-15-1	STOT SE 3, H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Irrit. 2, H315
1-5 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- If breathing is irregular or stopped, administer artificial respiration.
- In case of inhalation, consult a doctor immediately and show him packing or label.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Use localized ventilation system.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

- None in particular.

Instructions as regards storage premises:

- Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Gypsum	OSHA			15					
	OSHA			5					
	ACGIH			10					nasal symptoms (listed under Calcium sulfate);
Portland cement	OSHA			15					
	OSHA			5					
	ACGIH			1					A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma;
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

- Use close fitting safety goggles, don't use eye lens.

Protection for skin:

- Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

- Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

- Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Solid

Appearance and colour: Powder grey

Odour: Cement like

Odour threshold: N.A.

pH: N.A.  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: N.A.  
Flash point: N.A.  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: DISPERSIBLE  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand    Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
1-5 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, any body of water or onto the ground.

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Portland cement	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65



**Substance(s) listed under California Proposition 65:**

Silica Sand Listed as carcinogen

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

Portland cement  
Silica Sand

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

Gypsum  
Portland cement  
Silica Sand

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

Gypsum  
Portland cement  
Silica Sand

**16. OTHER INFORMATION**

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 5/26/2015 - version 1

Product code: 4113

**Additional classification information**



HMIS Health: 2 = Moderate  
 HMIS Health - Is health hazard chronic?: Yes  
 HMIS Flammability: 0 = Not Combustible  
 HMIS Reactivity: 0 = Minimal  
 HMIS P.P.E.: Safety glasses, gloves, dust respirator  
 NFPA Health: 2 = Moderate  
 NFPA Flammability: 0 = Not Combustible  
 NFPA Reactivity: 0 = Minimal  
 NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- IMDG: International Maritime Code for Dangerous Goods.
- IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

# Safety Data Sheet

## SECTION 1: Identification

Trade Name: Tandus Centiva C-16E  
Product Class: Aqueous Adhesive  
Product Name: Powerbond Cushion & Powerbond Medfloor

## SECTION 2: Hazard Identification

### GHS Classification

Not a hazardous substance or mixture

### GHS Label Element

Not a hazardous substance or mixture

### Other Hazards

None known if used according to instruction. Irritation may occur when in contact with eyes or skin.

## SECTION 3: Composition/Information on Ingredients

Description: Water-based Adhesive, Trade Secret

## SECTION 4: First-Aid Measures

Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

## SECTION 5: Fire-fighting Measures

Flammability Classification: OSHA: None. DOT: None.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other gases that are common to thermal degradation of organic compounds.

Extinguishing Media: Water, CO<sub>2</sub>, Dry Chemical, Foam.  
Wear self-contained breathing gear when in confined area.  
Containers may burst in heat of fire. Material may splatter if temperature exceed 212°F. Use water to cool fire-exposed containers. Dry material can burn.

## SECTION 6: Accidental Release Measures

Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Residual product while still wet, can be cleaned up with warm soapy water. Do not flush unused contents or residue down drains. Contain spill, preventing it from entering sewer lines or waterways.

## SECTION 7: Handling and Storage

Store inside at a temperature of 65°- 90° F. Do not allow product to freeze. Shelf life is one year.

## SECTION 8: Exposure Controls/Personal Protection

Ventilation: Local ventilation.

Protective Gloves: Recommended.

Eye Protection: Safety glasses.

Hygienic Practices: Wash with soap and water after exposure.

Respiratory Protection: Not required with adequate ventilation.

Other Protective Equipment: None.

Work Site Environment: Initially there may be a potential adverse impact in indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate persons that (1) it will be necessary to establish and maintain adequate ventilation of the work area without causing the entry of contaminants to other parts of the building and (2) persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

# Tandus Centiva

A Tarkett Company



**Tandus Centiva C-16E**  
**Powerbond® Cushion and Powerbond® Medfloor®**

**Tandus Centiva**

**1000 Vista Drive**

**Dalton, GA 30721**

**Information Telephone: 800-241-4902**

**24 hour Emergency - Chemtrec: 800-424-9300**

**International Emergency: Call (USA) 202-483-7616**

## SECTION 9: Physical and Chemical Properties

Boiling Point: 212°F

Vapor Density: Not Determined. Vapor Pressure: 68°F

Flammable Limits: Non-flammable. Flash Point: > 212° F

Evaporation Rate: Not Determined.

Appearance and Odor: Tan paste; low odor.

pH: 8.5 - 9.0

Weight per Gallon: 10.5-11.5lbs

Melting Point/Freezing Point: 32° F

Odor Threshold: N/A

Partition Coefficient: N/A. Auto Ignition Temperature: N/A

Viscosity: N/A Decomposition Temperature: N/A

Percent Volatile by Weight: 32-34%

Solubility in Water: Dispersible

V.O.C. Content: < 0.5 grams/liter; Compliant with

SCAQMD Rule 1168 for carpet adhesives

## SECTION 10: Stability and Reactivity

Conditions to avoid: Excessive heat or cold.

Stability: Stable.

Incompatibility: None known.

Hazardous Polymerization: Will not occur.

## SECTION 11: Toxicological Information

Not available

## SECTION 12: Ecological Information

Not available

## SECTION 13: Disposal Considerations

Dispose of in accordance with Federal, State and

Local regulations.

## SECTION 14: Transport Information

D.O.T Hazard Class: Unregulated

## SECTION 15: Regulatory Information

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are in compliance with the inventory listing requirements of the U.S. TSCA Inventory. This product does not contain asbestos.

## SECTION 16: Other Information

Tandus Centiva believes the data set forth herein are accurate as of the date hereof. Tandus Centiva makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

11/2016

# Safety Data Sheet

## SECTION 1: Identification

Trade Name: Tandus Centiva C-TR  
Product Class: Aqueous Adhesive  
Product Name: Pressure Sensitive Adhesive

## SECTION 2: Hazard Identification

### GHS Classification

Not a hazardous substance or mixture

### GHS Label Element

Not a hazardous substance or mixture

### Other Hazards

None known if used according to instruction. Irritation may occur when in contact with eyes and skin.

## SECTION 3: Composition/Information on Ingredients

Description: Water-based Acrylic Emulsion, Trade Secret

## SECTION 4: First-Aid Measures

Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

## SECTION 5: Fire-fighting Measures

Flammability Classification: OSHA: None. DOT: None.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other gases that are common to thermal degradation of organic compounds.

Extinguishing Media: Water, CO<sub>2</sub>, Dry Chemical, Foam.  
Wear self-contained breathing gear when in confined area.  
Containers may burst in heat of fire. Material may splatter if temperature exceed 212°F. Use water to cool fire-exposed containers. Dry material can burn.

## SECTION 6: Accidental Release Measures

Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Residual product while still wet, can be cleaned up with warm soapy water. Do not flush unused contents or residue down drains. Contain spill, preventing it from entering sewer lines or waterways.

## SECTION 7: Handling and Storage

Store inside at a temperature of 65°- 90° F. Do not allow product to freeze. Shelf life is one year.

## SECTION 8: Exposure Controls/Personal Protection

Ventilation: Local ventilation.  
Protective Gloves: Recommended.  
Eye Protection: Safety glasses.  
Hygienic Practices: Wash with soap and water after exposure.  
Respiratory Protection: Not required with adequate ventilation.  
Other Protective Equipment: None.  
Work Site Environment: Initially there may be a potential adverse impact in indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate persons that (1) it will be necessary to establish and maintain adequate ventilation of the work area without causing the entry of contaminants to other parts of the building and (2) persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

# Tandus Centiva

A Tarkett Company



**Tandus Centiva C-TR**  
**Pressure Sensitive Adhesive**



**Tandus Centiva**  
**1000 Vista Drive**  
**Dalton, GA 30721**

**Information Telephone: 800-241-4902**  
**24 hour Emergency - Chemtrec: 800-424-9300**  
**International Emergency: Call (USA) 202-483-7616**

## SECTION 9: Physical and Chemical Properties

Boiling Point: 212°F  
Vapor Density: Same as water. Vapor Pressure: N/A  
Evaporation Rate: Same as water.  
Flammable Limits: Non-flammable. Flash Point: > 212° F  
Melting Point/Freezing Point: 32° F  
Appearance and Odor: White viscous liquid; low odor.  
Odor Threshold: N/A  
pH: 7.5 - 8.5  
Viscosity: N/A                      Decomposition Temperature: N/A  
Partition Coefficient: N/A. Auto Ignition Temperature: N/A  
Weight per Gallon: 8.2 lbs.  
Percent Volatile by Weight: 39-41% (as water)  
Solubility in Water: Not soluble (dispersible)  
V.O.C. Content: <= 22.0 grams/liter; Compliant with SCAQMD Rule 1168 for carpet adhesives.

## SECTION 10: Stability and Reactivity

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.  
Hazardous Polymerization: Will not occur.

## SECTION 11: Toxicological Information

Not available

## SECTION 12: Ecological Information

Not available

## SECTION 13: Disposal Considerations

Dispose of in accordance with Federal, State and Local regulations.

## SECTION 14: Transport Information

D.O.T Hazard Class: Unregulated

## SECTION 15: Regulatory Information

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are in compliance with the inventory listing requirements of the U.S. TSCA Inventory. This product does not contain asbestos.

## SECTION 16: Other Information

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# Safety Data Sheet

## SECTION 1: Identification

Trade Name: Tandus Centiva C-TR  
Product Class: Aqueous Adhesive  
Product Name: Pressure Sensitive Adhesive

## SECTION 2: Hazard Identification

### GHS Classification

Not a hazardous substance or mixture

### GHS Label Element

Not a hazardous substance or mixture

### Other Hazards

None known if used according to instruction. Irritation may occur when in contact with eyes and skin.

## SECTION 3: Composition/Information on Ingredients

Description: Water-based Acrylic Emulsion, Trade Secret

## SECTION 4: First-Aid Measures

Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

## SECTION 5: Fire-fighting Measures

Flammability Classification: OSHA: None. DOT: None.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other gases that are common to thermal degradation of organic compounds.

Extinguishing Media: Water, CO<sub>2</sub>, Dry Chemical, Foam.  
Wear self-contained breathing gear when in confined area.  
Containers may burst in heat of fire. Material may splatter if temperature exceed 212°F. Use water to cool fire-exposed containers. Dry material can burn.

## SECTION 6: Accidental Release Measures

Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Residual product while still wet, can be cleaned up with warm soapy water. Do not flush unused contents or residue down drains. Contain spill, preventing it from entering sewer lines or waterways.

## SECTION 7: Handling and Storage

Store inside at a temperature of 65°- 90° F. Do not allow product to freeze. Shelf life is one year.

## SECTION 8: Exposure Controls/Personal Protection

Ventilation: Local ventilation.  
Protective Gloves: Recommended.  
Eye Protection: Safety glasses.  
Hygienic Practices: Wash with soap and water after exposure.  
Respiratory Protection: Not required with adequate ventilation.  
Other Protective Equipment: None.  
Work Site Environment: Initially there may be a potential adverse impact in indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate persons that (1) it will be necessary to establish and maintain adequate ventilation of the work area without causing the entry of contaminants to other parts of the building and (2) persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

# Tandus Centiva

A Tarkett Company



**Tandus Centiva C-TR**  
**Pressure Sensitive Adhesive**



**Tandus Centiva**  
**1000 Vista Drive**  
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**Information Telephone: 800-241-4902**  
**24 hour Emergency - Chemtrec: 800-424-9300**  
**International Emergency: Call (USA) 202-483-7616**

## SECTION 9: Physical and Chemical Properties

Boiling Point: 212°F  
Vapor Density: Same as water. Vapor Pressure: N/A  
Evaporation Rate: Same as water.  
Flammable Limits: Non-flammable. Flash Point: > 212° F  
Melting Point/Freezing Point: 32° F  
Appearance and Odor: White viscous liquid; low odor.  
Odor Threshold: N/A  
pH: 7.5 - 8.5  
Viscosity: N/A                      Decomposition Temperature: N/A  
Partition Coefficient: N/A. Auto Ignition Temperature: N/A  
Weight per Gallon: 8.2 lbs.  
Percent Volatile by Weight: 39-41% (as water)  
Solubility in Water: Not soluble (dispersible)  
V.O.C. Content: ≤ 22.0 grams/liter; Compliant with SCAQMD Rule 1168 for carpet adhesives.

## SECTION 10: Stability and Reactivity

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.  
Hazardous Polymerization: Will not occur.

## SECTION 11: Toxicological Information

Not available

## SECTION 12: Ecological Information

Not available

## SECTION 13: Disposal Considerations

Dispose of in accordance with Federal, State and Local regulations.

## SECTION 14: Transport Information

D.O.T Hazard Class: Unregulated

## SECTION 15: Regulatory Information

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are in compliance with the inventory listing requirements of the U.S. TSCA Inventory. This product does not contain asbestos.

## SECTION 16: Other Information

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# QBOND ONE

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 05/11/2015

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** QBOND ONE

#### Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Tarkett North America

30000 Aurora Road

Solon, Ohio 44139

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC 1-800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Not classified

#### Label Elements

**GHS-US Labeling** No labeling applicable

#### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Product Identifier	% (w/w)

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** None expected under normal conditions of use.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** May cause mild skin irritation.

**Eye Contact:** May cause minor eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

# QBOND ONE

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions are unlikely to occur under normal circumstances.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Do not allow run-off from firefighting to enter drains or water courses. Do not breathe fumes from fires or vapors from decomposition.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

**Other Information:** Refer to Section 9 for flammability properties.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Do not breathe vapor, mist, spray.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Place absorbed material in closed containers for disposal. Clean up spills immediately and dispose of waste safely. Notify authorities if product enters sewers or public waters.

#### Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

#### Specific End Use(s)

No use is specified.



# QBOND ONE

## Safety Data Sheet

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

#### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Paste
Appearance	: Off White paste
Odor	: Mild
Odor Threshold	: Not available
pH	: 7.0 – 8.0
Evaporation Rate	: Same as Water
Melting Point	: Not available
Freezing Point	: ≈ 32 °F (0 °C)
Boiling Point	: ≈ 212 °F (100.00 °C) (aqueous phase)
Flash Point	: None
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: None
Upper Flammable Limit	: None
Vapor Pressure	: Same as Water
Relative Vapor Density at 20 °C	: Same as Water
Relative Density	: Not available
Specific Gravity	: 0.98
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.
VOC Content (SCAQMD Rule 1168)	: <1 g/L



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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**pH:** 7.5 - 10

**Serious Eye Damage/Irritation:** Not classified

**pH:** 7.5 - 10

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause mild skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause minor eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** No additional information available

**Persistence and Degradability** Not available

**Bioaccumulative Potential**

**Mobility in Soil** Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

**US Federal Regulations**

**US State Regulations**

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### Canadian Regulations

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### **SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision Date** : 05/11/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **Party Responsible for the Preparation of This Document**

Tarkett North America  
30000 Aurora Road  
Solon, Ohio 44139

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2

# S-599 Premium Commercial Sheet Flooring Adhesive

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: / / Date of issue: 4/9/2015

Version: 01

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Viscous Aqueous Paste

**Product Name:** S-599 Premium Commercial Vinyl Sheet Flooring Adhesive

#### 1.2. Intended Use of the Product

**Use of the substance/mixture:** • Commercial Vinyl-Backed • Commercial Heterogeneous and Inlaid • Commercial Felt-Backed over porous and non-porous subfloors.

#### 1.3. Name, Address, and Telephone of the Responsible Party

**Company:** Armstrong World Industries, Inc  
2500 Columbia Ave  
Lancaster, PA 17603

**Technical Telephone No.:** 877-276-7876

#### 1.4. Emergency Telephone Number

**Emergency Number** : Within the U.S. 800-255-3924

### SECTION 2: HAZARDS IDENTIFICATION

None as per OSHA Regulation: 29 CFR 1910.1200

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Name	Product Identifier	%	Classification (GHS-US)
Water	7732-18-5	40 -60	

#### 3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Acrylic CoPolymer	Mixture	40 - 100	
Resin- Rosin Ester	Mixture	20 - 35	

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to unconscious person. If you feel unwell, seek medical advice.

**First-aid Measures After Inhalation:** Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention.

**First-aid Measures After Skin Contact:** Wash contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, seek medical attention.

**First-aid Measures After Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**First-aid Measures After Ingestion:** If swallowed, do not induce vomiting. Seek immediate medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:**

**Symptoms/Injuries After Inhalation:** Product has mild odor. None is expected.

**Symptoms/Injuries After Skin Contact:** Slight irritation might happen

**Symptoms/Injuries After Eye Contact:** Irritation might happen

**Symptoms/Injuries After Ingestion:** Gastro intestinal irritation might happen

**Chronic Symptoms:** No data available

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

# S-599 Premium Commercial Sheet Flooring Adhesive

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** None required. Product is a water based material. Product will burn in a dry state. If needed use foam, dry powder, carbon dioxide, water spray, sand.

**Unsuitable Extinguishing Media:** Do not use heavy water stream.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** None

**Explosion Hazard:** None

**Reactivity:** Not reactive

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Product is water based material. Will not ignite in the presence of fire. Product will burn on a dry state.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water to enter environment.

**Protection During Firefighting:** For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases.

**Other Information:**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Always wear chemical resistant gloves, safety glasses, apron and boots if necessary to prevent contact.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Always wear chemical resistant gloves, safety glasses, apron and boots if necessary to prevent contact.

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Always wear chemical resistant gloves, safety glasses, apron and boots if necessary to prevent contact.

**Emergency Procedures:** Ventilate the area

### 6.2. Environmental Precautions

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Methods for Cleaning Up:** Remove material and scrape residue from the area and contain in approved containers for proper disposal.

### 6.4. Reference to Other Sections

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Avoid contact with eyes. Avoid repeated contact with skin. Avoid breathing of vapors, if any.

**Hygiene Measures:** Always wash skin after contact. Wash clothing before re-sue.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Product is stable

**Storage Conditions:** Store adhesives in a well ventilated area.

**Incompatible Products:** strong bases and strong acids.

**Storage Temperature:** 65 degrees F – 95 degrees F

### 7.3. Specific End Use(s) Adhesive for the installation of vinyl backed flooring.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

### 8.2. Exposure Controls

**Appropriate Engineering Controls** : Use local exhaust. Do not use closed air-circulating. Open windows and doors if necessary.

**Personal Protective Equipment** : Avoid all unnecessary exposure

**Materials for Protective Clothing** : Non porous material

**Hand Protection** : Wear chemical resistant gloves

**Eye Protection** : Chemical goggles or safety glasses

**Skin and Body Protection** : Use clothing to prevent skin and body contact

**Respiratory Protection** : Not necessary. NIOSH respirator if needed

**Environmental Exposure Controls** : None needed

**Consumer Exposure Controls** : Maintain proper ventilation, use protective equipment.

# S-599 Premium Commercial Sheet Flooring Adhesive

Safety Data Sheet

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Viscous liquid material
Appearance	: Light yellow paste
Odor	: mild
Odor Threshold	: no data available
pH	: 9 – 9.5
Evaporation Rate	: low
Melting Point	: not applicable
Freezing Point	: relatively same as water
Boiling Point	: relatively same as water
Flash Point	: none
Auto-ignition Temperature	: not applicable
Decomposition Temperature	: not known
Flammability (solid, gas)	: not flammable but will burn in dry state
Vapor Pressure	: Same as water
Relative Vapor Density at 20 °C	: Same as water
Relative Density	: 7.75 – 8.25 lbs per gallon
Specific Gravity	: 0.93 – 0.99 g/cc
Specific gravity / density	: 0.96 g/cc , 8.0 lbs per gallon
Solubility	: Miscible in water
Partition Coefficient: N-Octanol/Water	: Data not available
Viscosity	: 50,000 – 62500 cps
Lower Flammable Limit	: Not applicable
Upper Flammable Limit	: Not applicable

### 9.2. Other Information

VOC content : : 14 g/L

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** stable
- 10.2. **Chemical Stability:** stable
- 10.3. **Possibility of Hazardous Reactions:** none
- 10.4. **Conditions to Avoid:** extreme temperature conditions. Keep from freezing.
- 10.5. **Incompatible Materials:** strong acids and bases
- 10.6. **Hazardous Decomposition Products:** oxides of carbon and other unknown organic compound structures.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** not known

**Skin Corrosion/Irritation:** not classified, pH

**Serious Eye Damage/Irritation:** not classified, pH

**Respiratory or Skin Sensitization:** not classified

**Germ Cell Mutagenicity:** not considered as mutagen

**Carcinogenicity:** not considered as carcinogen

**Reproductive Toxicity:** not considered as reproductive toxin

**Specific Target Organ Toxicity (Single Exposure):** none

**Specific Target Organ Toxicity (Repeated Exposure):** none

**Aspiration Hazard:** none if product is handled / used where it is intended.

**Symptoms/Injuries After Inhalation:** might cause headache, nausea

**Symptoms/Injuries After Skin Contact:** might cause slight irritation

**Symptoms/Injuries After Eye Contact:** might cause irritation

**Symptoms/Injuries After Ingestion:** might cause gastro intestinal disorders

# S-599 Premium Commercial Sheet Flooring Adhesive

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**Chronic Symptoms:** none known

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity:** No data available. Prevent entry into waterways

**12.2. Persistence and Degradability:** Material is organic

<b>Persistence and Degradability</b>	
--------------------------------------	--

**12.3. Bioaccumulative Potential**

No data available

**12.4. Mobility in Soil**

Not applicable - Material is viscous liquid material (soft solid)

**12.5. Other Adverse Effects**

not known

**Other Information** :

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Sewage Disposal Recommendations:** Avoid release to the environment

**Waste Disposal Recommendations:** Dispose in a safe manner in accordance to local/ national regulations. Dispose contents to approved DOT containers.

**Additional Information:**

## SECTION 14: TRANSPORT INFORMATION

**14.1. In Accordance with DOT**

**Proper Shipping Name** : Not regulated

**Hazard Class** :

**Identification Number** :

**Label Codes** :

**Packing Group** :

**ERG Number** :

**14.2. In Accordance with IMDG** (not transported via waterways )

**Proper Shipping Name** : IMDG Applicability Not Determined as this material is not currently shipped via ocean vessel

**Hazard Class** :

**Identification Number** :

**Packing Group** :

**Label Codes** :

**EmS-No. (Fire)** :

**EmS-No. (Spillage)** :

**MFAG Number** :

**14.3. In Accordance with IATA** (not transported via air)

**Proper Shipping Name** : IATA Applicability Not Determined as this material is not currently shipped via aircraft

**Packing Group** :

**Identification Number** :

**Hazard Class** :

**Label Codes** :

**ERG Code (IATA)** :

## SECTION 15: REGULATORY INFORMATION

**15.1 US Federal Regulations**

All Components of this product are either listed or exempt in the EPA TSCA list

EPA SARA Title III Section 313: None

SARA Title III Section 312 Hazard Class: None

OSHA Hazard Communication Standard (29 CFR1910.1200) Hazard Class(es): None

CA Proposition 65 This product contain trace chemical(s) known to the state of CA to cause cancer and / or reproductive harm.

# S-599 Premium Commercial Sheet Flooring Adhesive

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : April 2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**


*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)

## 1. Product and company identification

<b>Product name</b>	: SCHÖNOX AP
<b>Material uses</b>	: Gypsum based levelling compound
<b>Supplier</b>	: HPS, Inc. 515 Wilhite Street Florence, AL 35630 USA
<b>Manufacturer</b>	: SCHÖNOX GmbH Alfred-Nobel-Straße 6 48720 Rosendahl Germany  Phone: +49 (0) 2547 - 910-0 Fax: +49 (0) 2547 - 910-101 E-mail: info@schoenox.com
<b>In case of emergency</b>	: +49-170-2255126
<b>National advisory body/Poison Centre</b>	: Antipoison Center AAPCC ( <a href="http://www.aapcc.org">http://www.aapcc.org</a> ) +1 800 222 1222
<b>Validation date</b>	: 5/22/2012.
<b>Print date</b>	: 5/23/2012.
<b>Product type</b>	: Powder.

## 2. Hazards identification

### Classification of the substance or mixture

**Product definition** : Mixture

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

### Label elements

**Risk phrases** : This product is not classified according to EU legislation.

**Safety phrases** : Not applicable.

**Supplemental label elements** : Safety data sheet available for professional user on request.

**Other hazards which do not result in classification** : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

### Emergency overview

**Physical state** : Solid. [Powder.]

**Colour** : White. [Light]

**Odour** : Odourless. [Slight]

**Signal word** : WARNING!

**Hazard statements** : CAUSES EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Precautionary measures** : Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

**Inhalation** : Slightly irritating to the respiratory system.

**Ingestion** : No known significant effects or critical hazards.

**Skin** : Irritating to skin.

**Eyes** : Irritating to eyes.

### Over-exposure signs/symptoms



## 2. Hazards identification

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
calcium sulfate	7778-18-9	50 - 100
Limestone	1317-65-3	25 - 50
Quartz (SiO <sub>2</sub> )	14808-60-7	10 - 25
Cement, alumina, chemicals	65997-16-2	1 - 2,5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First-aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure controls/personal protection

Ingredient	Exposure limits
calcium sulfate	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction
	<b>NIOSH REL (United States, 6/2009).</b> TWA: 5 mg/m <sup>3</sup> 10 hour(s). Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 10 hour(s). Form: Total
	<b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust
Limestone	<b>NIOSH REL (United States, 6/2009).</b> TWA: 5 mg/m <sup>3</sup> 10 hour(s). Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 10 hour(s). Form: Total
	<b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust
Quartz (SiO <sub>2</sub> )	<b>OSHA PEL Z3 (United States, 9/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Respirable TWA: 30 mg/m <sup>3</sup> 8 hour(s). Form: Total dust.
	<b>ACGIH TLV (United States, 2/2010). Notes: Respirable fraction; see Appendix C, paragraph C.</b> TWA: 0.025 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction
	<b>NIOSH REL (United States, 6/2009). Notes: See Appendix A - NIOSH Potential Occupational Carcinogen</b> TWA: 0.05 mg/m <sup>3</sup> 10 hour(s). Form: respirable dust

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: disposable particulate mask (FFP2)
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 4-8 hours (breakthrough time): Nitrile gloves.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

- Physical state** : Solid. [Powder.]
- Colour** : White. [Light]
- Odour** : Odourless. [Slight]
- Relative density** : 1.02

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

- Conclusion/Summary** : There are no data available on the preparation itself.

## 12. Ecological information

- Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
calcium sulfate	Acute LC50 >1910000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia -	48 hours
	Acute LC50 >1970000 ug/L Fresh water	<24 hours Fish - Pimephales promelas - 1 to 7 days	96 hours

- Conclusion/Summary** : There are no data available on the preparation itself.

### Persistence/degradability

- Conclusion/Summary** : There are no data available on the preparation itself.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

## 15. Regulatory information

**HCS Classification** : Irritating material  
Target organ effects

### U.S. Federal regulations

**TSCA** : All ingredients appear on the Toxic Substance Control Act (TSCA) inventory or are not required to be listed.

**SARA Title III Section 313 (40 CFR Part 372):** : This product is not subject to SARA notification requirements and 40 CFR Part 372, since it not contain any Toxic Chemical constituents above the minimus concentrations.

### State regulations

**Massachusetts** : The following components are listed: CALCIUM SULFATE; SILICA, CRYSTALLINE, QUARTZ; CALCIUM CARBONATE

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: CALCIUM SULFATE; SULFURIC ACID, CALCIUM SALT (1:1); SILICA, QUARTZ; QUARTZ (SiO<sub>2</sub>); CALCIUM CARBONATE; LIMESTONE

**Pennsylvania** : The following components are listed: CALCIUM SULFATE; QUARTZ (SiO<sub>2</sub>); LIMESTONE

**California Prop. 65** : **WARNING:** This product contains a chemical known to the State of California to cause cancer.  
Quartz (SiO<sub>2</sub>)

## 16. Other information

**Label requirements** : CAUSES EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

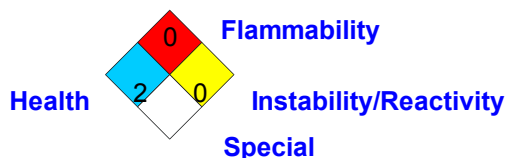
**Hazardous Material Information System (U.S.A.)** :

Health	0
Flammability	0
Physical hazards	0

## 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

**National Fire Protection Association (U.S.A.)** :



Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Date of printing** : 5/23/2012.

**Date of issue** : 5/22/2012.

**Date of previous issue** : 10/11/2011.

**Version** : 3

**Prepared by** : K.Hericks

▣ Indicates information that has changed from previously issued version.

### Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product. Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.



SCHÖNOX GmbH, Postbox 1140, D-48713 Rosendahl // <http://www.schoenox.de>

# SCHÖNOX APF

Revision Date 09/23/2016

Print Date 09/23/2016

## 1. Identification

Product name : SCHÖNOX APF

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.


## 2. Hazards identification

### GHS Classification

Carcinogenicity, Category 1A H350: May cause cancer.

### GHS label elements



Hazard pictograms : 

Signal word : Danger

Hazard statements : H350 May cause cancer.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

**Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.

**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/attention.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**SCHÖNOX APF**

See Section 11 for more detailed information on health effects and symptoms.  
 There are no hazards not otherwise classified that have been identified during the classification process.  
 There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**3. Composition/information on ingredients**

Pure substance/mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Quartz (SiO <sub>2</sub> )	14808-60-7	$\geq 10 - < 20 \%$

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First aid measures**

- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : carcinogenic effects  
  
See Section 11 for more detailed information on health effects and symptoms.  
  
May cause cancer.
- Protection of first-aiders : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- Notes to physician : Treat symptomatically.

# SCHÖNOX APF

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## 5. Firefighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

---

## 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid breathing dust. Deny access to unprotected persons.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

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## 7. Handling and storage

- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Prevent unauthorized access. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Store in accordance with local regulations.
- Materials to avoid : No data available



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**8. Exposure controls/personal protection**

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
calcium sulfate	7778-18-9	OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		ACGIH	TWA	10 mg/m3 Inhalable fraction
Quartz (SiO2)	14808-60-7	OSHA Z-3	TWA	30 mg/m3 / %SiO2+2 total dust
		OSHA Z-3	TWA	10 mg/m3 / %SiO2+2 respirable
		OSHA Z-3	TWA	250 mppcf / %SiO2+5 respirable
		OSHA P0	TWA	0.1 mg/m3 Respirable fraction
		ACGIH	TWA	0.025 mg/m3 Respirable fraction
		CAL PEL	PEL	0.3 mg/m3 Total dust
		CAL PEL	PEL	0.1 mg/m3 respirable dust fraction
Limestone	1317-65-3	OSHA Z-1	TWA	15 mg/m3 total dust

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		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		CAL PEL	PEL	10 mg/m3 Total dust
		CAL PEL	PEL	5 mg/m3 respirable dust fraction
		NIOSH REL	TWA	5 mg/m3 Respirable
		NIOSH REL	TWA	10 mg/m3 total

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration

**SCHÖNOX APF**

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

- Hand protection  
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
  
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
  
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
  
- Hygiene measures : Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Avoid breathing dust.

---

**9. Physical and chemical properties**

- Appearance : powder
- Colour : light grey
- : white
- Odour : odourless
- Odour Threshold : No data available
- Flash point : Note: Not applicable
- Ignition temperature : No data available
- Decomposition temperature : No data available
- Lower explosion limit (Vol%) : No data available
- Upper explosion limit (Vol%) : No data available
- Flammability (solid, gas) : No data available
- Oxidizing properties : No data available
- pH : 10
- Melting point/range / Freezing point : No data available
- : Note: Not applicable

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Vapour pressure	:	No data available
Density	:	ca.1.0 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Note: Not applicable
Relative vapour density	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Volatile organic compounds (VOC) content	:	No data available

---

## 10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available

---

## 11. Toxicological information

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

May cause cancer.

**IARC**

Group 1: Carcinogenic to humans

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<b>NTP</b>	Quartz (SiO <sub>2</sub> )	14808-60-7
	Known to be human carcinogen	
	Quartz (SiO <sub>2</sub> )	14808-60-7

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Prolonged exposure can cause silicosis.

**Aspiration toxicity**

Not classified based on available information.

---

**12. Ecological information**

Other information	Do not empty into drains; dispose of this material and its container in a safe way.
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**13. Disposal considerations**

**Disposal methods**

- |                        |  |
|------------------------|--|
| Waste from residues    | : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

---

**14. Transport information**

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

# SCHÖNOX APF

## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.  
 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## 16. Other information

**HMIS Classification**

<b>Health</b>	*	3
<b>Flammability</b>		0
<b>Physical Hazard</b>		0
<b>Personal Protection</b>		X

# SCHÖNOX APF

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**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

---

### Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual SCHÖNOX GmbH ("SCHÖNOX") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified SCHÖNOX product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that SCHÖNOX believes to be reliable as of the date hereof. Prior to each use of any SCHÖNOX product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each SCHÖNOX product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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# SCHÖNOX EPA Comp. A

Revision Date 09/23/2016

Print Date 09/23/2016

## 1. Identification

Product name : SCHÖNOX EPA Comp. A

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.


## 2. Hazards identification

### GHS Classification

Skin irritation, Category 2 H315: Causes skin irritation.  
Eye irritation, Category 2A H319: Causes serious eye irritation.  
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

### GHS label elements



Hazard pictograms : 

Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.



**SCHÖNOX EPA Comp. A**

P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.  
 There are no hazards not otherwise classified that have been identified during the classification process.  
 There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**3. Composition/information on ingredients**

Pure substance/mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight $\leq 700$ )	25068-38-6	$\geq 50 - \leq 100 \%$
oxirane, mono[(C12-14-alkyloxy)methyl]derivs	68609-97-2	$\geq 10 - < 20 \%$

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First aid measures**

- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : irritant effects  
sensitising effects  
  
Allergic reactions

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Excessive lachrymation  
Erythema  
Dermatitis  
See Section 11 for more detailed information on health effects and symptoms.

Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

Protection of first-aiders : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.

Notes to physician : Treat symptomatically.

---

## 5. Firefighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

---

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

---

## 7. Handling and storage

Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or

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asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Smoking, eating and drinking should be prohibited in the application area.

Follow standard hygiene measures when handling chemical products

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in accordance with local regulations.

Materials to avoid : No data available

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## 8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection  
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.

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Wash thoroughly after handling.

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**9. Physical and chemical properties**

Appearance	: liquid
Colour	: colourless
Odour	: characteristic
Odour Threshold	: No data available
Flash point	: > 212 °F (100 °C)
Ignition temperature	: No data available
Decomposition temperature	: No data available
Lower explosion limit (Vol%)	: No data available
Upper explosion limit (Vol%)	: No data available
Flammability (solid, gas)	: No data available
Oxidizing properties	: No data available
pH	: Note: Not applicable
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Density	: 1.12 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 20.5 mm <sup>2</sup> /s at 104 °F (40 °C)
Relative vapour density	: No data available
Evaporation rate	: No data available
Burning rate	: No data available
Volatile organic compounds (VOC) content	: No data available

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## 10. Stability and reactivity

- Reactivity : No dangerous reaction known under conditions of normal use.
- Chemical stability : The product is chemically stable.
- Possibility of hazardous reactions : Stable under recommended storage conditions.
- Conditions to avoid : No data available
- Incompatible materials : No data available

---

## 11. Toxicological information

### Acute toxicity

Not classified based on available information.

### Components:

**reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):**

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20,000 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

**IARC** Not applicable

**NTP** Not applicable

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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### Aspiration toxicity

Not classified based on available information.

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## 12. Ecological information

### Other information

Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
May be harmful to the environment if released in large quantities.  
Water polluting material.

### Component:

reaction product: 25068-38-6  
bisphenol-A-  
(epichlorhydrin) and epoxy  
resin (number average  
molecular weight <= 700)

Toxicity to fish:  
LC50  
Species: Oncorhynchus mykiss (rainbow trout)  
Dose: 2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:  
EC50  
Species: Daphnia magna (Water flea)  
Dose: 1.8 mg/l  
Exposure time: 48 h

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## 13. Disposal considerations

### Disposal methods

- Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. Transport information

### DOT

UN number	3082
Description of the goods	Environmentally hazardous substances, liquid, n.o.s. (epoxy resin, oxirane, mono[(C12-14-alkyloxy)methyl]derivs)
Class	9
Packing group	III
Labels	9
Emergency Response Guidebook Number	171

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<b>IATA</b>	
UN number	3082
Description of the goods	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin, oxirane, mono[(C12-14-alkyloxy)methyl]derivs)
Class	9
Packing group	III
Labels	9
Packing instruction (cargo aircraft)	964
Packing instruction (passenger aircraft)	964
Packing instruction (passenger aircraft)	Y964

<b>IMDG</b>	
UN number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin, oxirane, mono[(C12-14-alkyloxy)methyl]derivs)
Class	9
Packing group	III
Labels	9
EmS Number 1	F-A
EmS Number 2	S-F
Marine pollutant	yes

**Special precautions for user**  
No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

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## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

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Chronic Health Hazard

- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).  
 This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. Other information**

**HMIS Classification**

<b>Health</b>	*	2
<b>Flammability</b>		1
<b>Physical Hazard</b>		0
<b>Personal Protection</b>		X

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

**Notes to Reader**

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## 1. Identification

Product name : SCHÖNOX EPA Comp. B

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

## 2. Hazards identification

### GHS Classification

Acute toxicity, Category 4 (Oral) H302: Harmful if swallowed.  
Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.  
Serious eye damage, Category 1 H318: Causes serious eye damage.  
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

### GHS label elements



Hazard pictograms :  
Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust or mist.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning : Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.  
 There are no hazards not otherwise classified that have been identified during the classification process.  
 There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**3. Composition/information on ingredients**

Pure substance/mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
benzyl alcohol	100-51-6	$\geq 25 - < 50 \%$
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	$\geq 10 - < 20 \%$
m-phenylenebis(methylamine)	1477-55-0	$\geq 10 - < 20 \%$

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First aid measures**

If inhaled : Move to fresh air.  
 Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
 Wash off with soap and plenty of water.  
 Immediate medical treatment is necessary as untreated

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- wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Health injuries may be delayed.  
corrosive effects  
sensitising effects  
  
Gastrointestinal discomfort  
Allergic reactions  
Dermatitis  
See Section 11 for more detailed information on health effects and symptoms.  
  
Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes severe burns.
- Protection of first-aiders : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- Notes to physician : Treat symptomatically.

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## 5. Firefighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## 6. Accidental release measures

- Personal precautions, : Use personal protective equipment.

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- protective equipment and emergency procedures : Deny access to unprotected persons.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

**7. Handling and storage**

- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.
- Materials to avoid : No data available

**8. Exposure controls/personal protection**

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
m-phenylenebis(methylamine)	1477-55-0	ACGIH	C	0.1 mg/m <sup>3</sup>
		OSHA P0	C	0.1 mg/m <sup>3</sup>

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\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Wash thoroughly after handling.

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**9. Physical and chemical properties**

Appearance : liquid

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Colour	:	yellow
Odour	:	amine-like
Odour Threshold	:	No data available
Flash point	:	> 212 °F (100 °C)
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Lower explosion limit (Vol%)	:	No data available
Upper explosion limit (Vol%)	:	No data available
Flammability (solid, gas)	:	No data available
Oxidizing properties	:	No data available
pH	:	Note: Not applicable
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Vapour pressure	:	15.000 mmHg (19.9983 hPa)
Density	:	1.03 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 20.5 mm <sup>2</sup> /s at 104 °F (40 °C)
Relative vapour density	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Volatile organic compounds (VOC) content	:	No data available

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### 10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous	:	Stable under recommended storage conditions.

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reactions  
Conditions to avoid : No data available  
  
Incompatible materials : No data available

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## 11. Toxicological information

### Acute toxicity

Harmful if swallowed.

### Components:

#### benzyl alcohol:

Acute oral toxicity : LD50 Oral (Rat): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity : LD50 Oral (Rat): 1,030 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

#### m-phenylenebis(methylamine):

Acute oral toxicity : LD50 Oral (Rat): 930 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.34 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 3,100 mg/kg

### Skin corrosion/irritation

Causes severe burns.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

### Components:

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Assessment: The product is a skin sensitiser, sub-category 1A.

Result: The product is a skin sensitiser, sub-category 1A.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

**IARC** : Not applicable



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**NTP** Not applicable

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Aspiration toxicity**

Not classified based on available information.

**12. Ecological information**

Other information Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Component:**

benzyl alcohol	100-51-6	<p><u>Toxicity to fish:</u> LC50 Species: Fish Dose: &gt; 100 mg/l Exposure time: 96 h</p> <p><u>Toxicity to daphnia and other aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: &gt; 100 mg/l Exposure time: 48 h</p>
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	<p><u>Toxicity to algae:</u> ErC50 Species: Desmodesmus subspicatus (green algae) Dose: &gt; 10 - 100 mg/l Exposure time: 72 h</p>
m-phenylenebis(methylamine)	1477-55-0	<p><u>Toxicity to fish:</u> LC50 Species: Oryzias latipes (Japanese medaka) Dose: &gt; 10 - 100 mg/l Exposure time: 96 h</p> <p><u>Toxicity to daphnia and other aquatic invertebrates:</u> EC50 Species: Daphnia magna (Water flea) Dose: &gt; 10 - 100 mg/l Exposure time: 48 h</p>

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**13. Disposal considerations**

**Disposal methods**

- Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information**

**DOT**

- UN number 2735
- Description of the goods Polyamines, liquid, corrosive, n.o.s.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- Class 8
- Packing group III
- Labels 8
- Emergency Response 153
- Guidebook Number

**IATA**

- UN number 2735
- Description of the goods Polyamines, liquid, corrosive, n.o.s.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- Class 8
- Packing group III
- Labels 8
- Packing instruction (cargo aircraft) 856
- Packing instruction (passenger aircraft) 852
- Packing instruction (passenger aircraft) Y841

**IMDG**

- UN number 2735
- Description of the goods POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- Class 8
- Packing group III
- Labels 8
- EmS Number 1 F-A
- EmS Number 2 S-B
- Marine pollutant no

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**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

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## 15. Regulatory information

**TSCA list** : On the inventory, or in compliance with the inventory

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16. Other information

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### HMIS Classification

Health	*	3
Flammability		1
Physical Hazard		0
Personal Protection		X

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

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# SCHÖNOX KH FIX

## 1. Identification

Product name : SCHÖNOX KH FIX

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.com

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

---

## 2. Hazards identification

### GHS Classification

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.  
There are no hazards not otherwise classified that have been identified during the classification process.  
There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

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## 3. Composition/information on ingredients

### Hazardous components

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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## 4. First aid measures

If inhaled : Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.

# SCHÖNOX KH FIX

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- 
- |   |  |
|---|--|
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.  |
| If swallowed  | : Clean mouth with water and drink afterwards plenty of water.<br>Do not induce vomiting without medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : No known significant effects or hazards.<br><br>See Section 11 for more detailed information on health effects and symptoms.   |
| Protection of first-aiders                                  | : No hazards which require special first aid measures.   |
| Notes to physician  | : Treat symptomatically.   |
- 

## 5. Firefighting measures

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Specific extinguishing methods                | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.  |
- 

## 6. Accidental release measures

- |   |  |
|---|--|
| Environmental precautions                             | : Local authorities should be advised if significant spillages cannot be contained.                          |
| Methods and materials for containment and cleaning up | : Wipe up with absorbent material (e.g. cloth, fleece).<br>Keep in suitable, closed containers for disposal. |
- 

## 7. Handling and storage

- |                             |  |
|-----------------------------|--|
| Advice on safe handling     | : For personal protection see section 8.<br>No special handling advice required.<br>Follow standard hygiene measures when handling chemical products |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated place.<br>Store in accordance with local regulations.                                   |
-

# SCHÖNOX KH FIX

Materials to avoid : No data available

---

## 8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protective equipment

**Respiratory protection** : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection**  
**Remarks** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

**Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

**Hygiene measures** : Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

---

## 9. Physical and chemical properties

**Appearance** : liquid  
**Colour** : violet  
white  
**Odour** : pleasant  
**Odour Threshold** : No data available  
**Flash point** : > 214 °F (101 °C)

**SCHÖNOX KH FIX**

Ignition temperature	: Not applicable
Decomposition temperature	: No data available
Lower explosion limit (Vol%)	: No data available
Upper explosion limit (Vol%)	: No data available
Flammability (solid, gas)	: No data available
Oxidizing properties	: No data available
pH	: ca. 8
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: 212 °F (100 °C)
Vapour pressure	: No data available
Density	: ca.1.00 - 1.05 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	: No data available
Partition coefficient: n- octanol/water	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 7 mm <sup>2</sup> /s at 104 °F (40 °C)
Relative vapour density	: No data available
Evaporation rate	: No data available
Burning rate	: No data available
Volatile organic compounds (VOC) content	: No data available

---

**10. Stability and reactivity**

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: No data available
Incompatible materials	: No data available



# SCHÖNOX KH FIX

## 11. Toxicological information

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

**IARC** Not applicable

**NTP** Not applicable

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## 12. Ecological information

Other information	Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
-------------------	--

## 13. Disposal considerations

### **Disposal methods**

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

# SCHÖNOX KH FIX

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## 14. Transport information

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

---

## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# SCHÖNOX KH FIX

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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

## 16. Other information

### HMIS Classification

Health	<input type="text" value="1"/>
Flammability	<input type="text" value="1"/>
Physical Hazard	<input type="text" value="0"/>
Personal Protection	<input type="text" value="X"/>

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

---

### Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual SCHÖNOX GmbH ("SCHÖNOX") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified SCHÖNOX product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that SCHÖNOX believes to be reliable as of the date hereof. Prior to each use of any SCHÖNOX product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each SCHÖNOX product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SCHÖNOX MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SCHÖNOX SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

# SCHÖNOX ROLL AND GO

Revision Date 09/23/2016

Print Date 09/23/2016

## 1. Identification

Product name : SCHÖNOX ROLL AND GO

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

---

## 2. Hazards identification

### GHS Classification

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

---

## 3. Composition/information on ingredients

### Hazardous components

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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## 4. First aid measures

If inhaled : Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.

# SCHÖNOX ROLL AND GO

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- 
- |   |  |
|---|--|
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.  |
| If swallowed  | : Clean mouth with water and drink afterwards plenty of water.<br>Do not induce vomiting without medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : No known significant effects or hazards.<br><br>See Section 11 for more detailed information on health effects and symptoms.   |
| Protection of first-aiders                                  | : No hazards which require special first aid measures.   |
| Notes to physician  | : Treat symptomatically.   |
- 

## 5. Firefighting measures

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Specific extinguishing methods                | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.  |
- 

## 6. Accidental release measures

- |   |  |
|---|--|
| Environmental precautions                             | : Local authorities should be advised if significant spillages cannot be contained.                          |
| Methods and materials for containment and cleaning up | : Wipe up with absorbent material (e.g. cloth, fleece).<br>Keep in suitable, closed containers for disposal. |
- 

## 7. Handling and storage

- |                             |  |
|-----------------------------|--|
| Advice on safe handling     | : For personal protection see section 8.<br>No special handling advice required.<br>Follow standard hygiene measures when handling chemical products |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated place.<br>Store in accordance with local regulations.                                   |
-

# SCHÖNOX ROLL AND GO

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Materials to avoid : No data available

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## 8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protective equipment

**Respiratory protection** : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection**  
**Remarks** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

**Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

**Hygiene measures** : Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

---

## 9. Physical and chemical properties

**Appearance** : liquid  
**Colour** : green  
**Odour** : characteristic  
**Odour Threshold** : No data available  
**Flash point** : > 214 °F (101 °C)

**SCHÖNOX ROLL AND GO**

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Ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Lower explosion limit (Vol%)	:	No data available
Upper explosion limit (Vol%)	:	No data available
Flammability (solid, gas)	:	No data available
Oxidizing properties	:	No data available
pH	:	5 - 6
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	212 °F (100 °C)
Vapour pressure	:	No data available
Density	:	ca.1 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	>7 mm <sup>2</sup> /s at 104 °F (40 °C)
Relative vapour density	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Volatile organic compounds (VOC) content	:	No data available

**10. Stability and reactivity**

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available

# SCHÖNOX ROLL AND GO

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## 11. Toxicological information

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

**IARC** Not applicable

**NTP** Not applicable

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## 12. Ecological information

Other information

Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 13. Disposal considerations

### **Disposal methods**

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.



# SCHÖNOX ROLL AND GO

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## 14. Transport information

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

---

## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# SCHÖNOX ROLL AND GO

Revision Date 09/23/2016

Print Date 09/23/2016

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

## 16. Other information

### HMIS Classification

Health	<input type="text" value="1"/>
Flammability	<input type="text" value="1"/>
Physical Hazard	<input type="text" value="0"/>
Personal Protection	<input type="text" value="X"/>

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

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### Notes to Reader

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# SCHÖNOX SHP

## 1. Identification

Product name : SCHÖNOX SHP

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.


## 2. Hazards identification

### GHS Classification

Carcinogenicity, Category 1A H350: May cause cancer.

### GHS label elements



Hazard pictograms : 

Signal word : Danger

Hazard statements : H350 May cause cancer.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

**Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.

**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/attention.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**SCHÖNOX SHP**

See Section 11 for more detailed information on health effects and symptoms.  
 There are no hazards not otherwise classified that have been identified during the classification process.  
 There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**3. Composition/information on ingredients**

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Quartz (SiO <sub>2</sub> )	14808-60-7	$\geq 10 - < 20\%$

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First aid measures**

- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : carcinogenic effects  
  
See Section 11 for more detailed information on health effects and symptoms.  
  
May cause cancer.
- Protection of first-aiders : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- Notes to physician : Treat symptomatically.

# SCHÖNOX SHP

Revision Date 09/23/2016

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## 5. Firefighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

---

## 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Deny access to unprotected persons.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

---

## 7. Handling and storage

- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Prevent unauthorized access.  
Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Store in accordance with local regulations.
- Materials to avoid : No data available

**SCHÖNOX SHP**

**8. Exposure controls/personal protection**

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
Quartz (SiO <sub>2</sub> )	14808-60-7	OSHA Z-3	TWA	30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 total dust
		OSHA Z-3	TWA	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 respirable
		OSHA Z-3	TWA	250 mppcf / %SiO <sub>2</sub> +5 respirable
		OSHA P0	TWA	0.1 mg/m <sup>3</sup> Respirable fraction
		ACGIH	TWA	0.025 mg/m <sup>3</sup> Respirable fraction
		CAL PEL	PEL	0.3 mg/m <sup>3</sup> Total dust
		CAL PEL	PEL	0.1 mg/m <sup>3</sup> respirable dust fraction

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk

**SCHÖNOX SHP**

assessment indicates this is necessary.  
 The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

- Hand protection  
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.

---

**9. Physical and chemical properties**

- Appearance : liquid
- Colour : blue
- Odour : characteristic
- Odour Threshold : No data available
- Flash point : > 214 °F (101 °C)
- Ignition temperature : No data available
- Decomposition temperature : No data available
- Lower explosion limit (Vol%) : No data available
- Upper explosion limit (Vol%) : No data available
- Flammability (solid, gas) : No data available
- Oxidizing properties : No data available
- pH : 9
- Melting point/range / Freezing point : No data available
- Boiling point/boiling range : 212 °F (100 °C)

# SCHÖNOX SHP

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Vapour pressure	:	17 mmHg (23 hPa)
Density	:	ca.1.38 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	:	Note: dispersible
Partition coefficient: n-octanol/water	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	>7 mm <sup>2</sup> /s at 104 °F (40 °C)
Relative vapour density	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Volatile organic compounds (VOC) content	:	0 g/l

---

## 10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available

---

## 11. Toxicological information

Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

May cause cancer.

**IARC**

Group 1: Carcinogenic to humans



# SCHÖNOX SHP

<b>NTP</b>	Quartz (SiO <sub>2</sub> ) Known to be human carcinogen	14808-60-7
	Quartz (SiO <sub>2</sub> )	14808-60-7

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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**12. Ecological information**

Other information	Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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**13. Disposal considerations**

**Disposal methods**

Waste from residues	: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

**14. Transport information**

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

# SCHÖNOX SHP

Not applicable

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## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

#### Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.

---

## 16. Other information

### HMIS Classification

Health	*	3
Flammability		1
Physical Hazard		0
Personal Protection		X

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**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

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# SCHÖNOX SL

## 1. Identification

Product name : SCHÖNOX SL

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.


## 2. Hazards identification

### GHS Classification

Serious eye damage, Category 1 H318: Causes serious eye damage.

### GHS label elements



Hazard pictograms : 

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
**Prevention:**  
P280 Wear eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

See Section 11 for more detailed information on health effects and symptoms.  
There are no hazards not otherwise classified that have been identified during the classification process.  
There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

# SCHÖNOX SL

### 3. Composition/information on ingredients

Pure substance/mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (%)
Cement, portland, chemicals	65997-15-1	>= 5 - < 10 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.
- Protection of first-aiders : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.

### 5. Firefighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**6. Accidental release measures**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid breathing dust.  
Deny access to unprotected persons.

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.  
Keep in suitable, closed containers for disposal.

**7. Handling and storage**

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Store in accordance with local regulations.

Materials to avoid : No data available

**8. Exposure controls/personal protection**

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
calcium sulfate	7778-18-9	OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3

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				Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		ACGIH	TWA	10 mg/m3 Inhalable fraction
Cement, portland, chemicals	65997-15-1	ACGIH	TWA	1 mg/m3 Respirable fraction
		OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA Z-3	TWA	50 Million particles per cubic foot Dust
		OSHA P0	TWA	10 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		CAL PEL	PEL	10 mg/m3 Total dust
		CAL PEL	PEL	5 mg/m3 respirable dust fraction
Limestone	1317-65-3	OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust

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				fraction
		CAL PEL	PEL	10 mg/m3 Total dust
		CAL PEL	PEL	5 mg/m3 respirable dust fraction
		NIOSH REL	TWA	5 mg/m3 Respirable
		NIOSH REL	TWA	10 mg/m3 total
kaolin	1332-58-7	ACGIH	TWA	2 mg/m3 Respirable fraction
		OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	10 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	10 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		CAL PEL	PEL	2 mg/m3 Respirable dust
		NIOSH REL	TWA	5 mg/m3 Respirable
		NIOSH REL	TWA	10 mg/m3 total



# SCHÖNOX SL

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures

: Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Wash thoroughly after handling.  
Avoid breathing dust.

---

**9. Physical and chemical properties**

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Appearance	: powder
Colour	: grey
Odour	: characteristic
Odour Threshold	: No data available
Flash point	: Note: Not applicable
Ignition temperature	: No data available
Decomposition temperature	: No data available
Lower explosion limit (Vol%)	: No data available
Upper explosion limit (Vol%)	: No data available
Flammability (solid, gas)	: No data available
Oxidizing properties	: No data available
pH	: ca. 11
Melting point/range / Freezing point	: No data available
	: Note: Not applicable
Vapour pressure	: No data available
Density	: ca.0.85 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: Note: Not applicable
Relative vapour density	: No data available
Evaporation rate	: No data available
Burning rate	: No data available
Volatile organic compounds (VOC) content	: 0 g/l

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## 10. Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.

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Possibility of hazardous reactions : Stable under recommended storage conditions.  
Conditions to avoid : No data available  
Incompatible materials : No data available

---

## 11. Toxicological information

Not classified based on available information.

### Skin corrosion/irritation

Not classified based on available information.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

**IARC** Not applicable

**NTP** Not applicable

### Reproductive toxicity

Not classified based on available information.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

---

## 12. Ecological information

Other information Do not empty into drains; dispose of this material and its container in a safe way.

---

## 13. Disposal considerations

### Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

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local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## 14. Transport information

### DOT

Not dangerous goods

### IATA

Not dangerous goods

### IMDG

Not dangerous goods

### Special precautions for user

No data available

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

---

## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

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**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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**16. Other information**

**HMIS Classification**

<b>Health</b>	<input type="text" value="3"/>
<b>Flammability</b>	<input type="text" value="0"/>
<b>Physical Hazard</b>	<input type="text" value="0"/>
<b>Personal Protection</b>	<input type="text" value="X"/>

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

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# SCHÖNOX VD

Revision Date 09/23/2016

Print Date 09/23/2016

## 1. Identification

Product name : SCHÖNOX VD

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

---

## 2. Hazards identification

### GHS Classification

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.  
There are no hazards not otherwise classified that have been identified during the classification process.  
There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

---

## 3. Composition/information on ingredients

### Hazardous components

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

---

## 4. First aid measures

If inhaled : Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.

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- 
- |   |  |
|---|--|
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.  |
| If swallowed  | : Clean mouth with water and drink afterwards plenty of water.<br>Do not induce vomiting without medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : No known significant effects or hazards.<br><br>See Section 11 for more detailed information on health effects and symptoms.   |
| Protection of first-aiders                                  | : No hazards which require special first aid measures.   |
| Notes to physician  | : Treat symptomatically.   |
- 

## 5. Firefighting measures

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Specific extinguishing methods                | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.  |
- 

## 6. Accidental release measures

- |   |  |
|---|--|
| Environmental precautions                             | : Local authorities should be advised if significant spillages cannot be contained.                          |
| Methods and materials for containment and cleaning up | : Wipe up with absorbent material (e.g. cloth, fleece).<br>Keep in suitable, closed containers for disposal. |
- 

## 7. Handling and storage

- |                             |  |
|-----------------------------|--|
| Advice on safe handling     | : For personal protection see section 8.<br>No special handling advice required.<br>Follow standard hygiene measures when handling chemical products |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated place.<br>Store in accordance with local regulations.                                   |
-

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Materials to avoid : No data available

## 8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal protective equipment

**Respiratory protection** : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection**  
**Remarks** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

**Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

**Hygiene measures** : Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

## 9. Physical and chemical properties

**Appearance** : liquid  
**Colour** : light blue  
**Odour** : pleasant  
**Odour Threshold** : No data available  
**Flash point** : > 214 °F (101 °C)



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Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : No data available

Upper explosion limit (Vol%) : No data available

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : 8

Melting point/range / Freezing point : No data available

Boiling point/boiling range : 212 °F (100 °C)

Vapour pressure : 17 mmHg (23 hPa)

Density : ca.1.0 g/cm<sup>3</sup>  
at 68 °F (20 °C)

Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : > 7 mm<sup>2</sup>/s  
at 104 °F (40 °C)

Relative vapour density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds (VOC) content : No data available

---

## 10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

# SCHÖNOX VD

## 11. Toxicological information

Not classified based on available information.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

**IARC** Not applicable

**NTP** Not applicable

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

---

## 12. Ecological information

Other information

Do not empty into drains; dispose of this material and its container in a safe way.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

---

## 13. Disposal considerations

### **Disposal methods**

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

# SCHÖNOX VD

## 14. Transport information

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)
sodium hydroxide	1310-73-2	1000

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

# SCHÖNOX VD

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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

## 16. Other information

### HMIS Classification

Health	/	1
Flammability		1
Physical Hazard		0
Personal Protection		X

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

---

### Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual SCHÖNOX GmbH ("SCHÖNOX") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified SCHÖNOX product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that SCHÖNOX believes to be reliable as of the date hereof. Prior to each use of any SCHÖNOX product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each SCHÖNOX product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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# SCHÖNOX ZM

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Print Date 09/23/2016

## 1. Identification

Product name : SCHÖNOX ZM

Supplier : HPS, Inc., 515 Wilhite Street, Florence, AL 35630, USA  
Phone 256.246.0345  
email: info@hpsubfloors.com

Manufacturer : SCHÖNOX GmbH, Alfred-Nobel-Str. 6, 48720 Rosendahl, Germany  
Phone +49 (0) 2547 910 0  
FAX +49 (0) 2547 910 101  
email: info@schoenox.de

Emergency telephone number : +49-170-22 55 126

Recommended use of the chemical and restrictions on use : For further information, refer to product data sheet.

## 2. Hazards identification

### GHS Classification

Skin irritation, Category 2 H315: Causes skin irritation.  
Serious eye damage, Category 1 H318: Causes serious eye damage.  
Carcinogenicity, Category 1A (Inhalation) H350i: May cause cancer by inhalation.

### GHS label elements



Hazard pictograms :  
Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H350i May cause cancer by inhalation.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
**Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.  
P281 Use personal protective equipment as required.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P310 Immediately call a POISON CENTER/doctor.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.  
**Storage:**  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.  
 There are no hazards not otherwise classified that have been identified during the classification process.  
 There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**3. Composition/information on ingredients**

Pure substance/mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Quartz (SiO <sub>2</sub> )	14808-60-7	$\geq 25 - < 50 \%$
Cement, portland, chemicals	65997-15-1	$\geq 10 - < 20 \%$

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**4. First aid measures**

- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

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Do not induce vomiting without medical advice.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

Most important symptoms and effects, both acute and delayed

: irritant effects  
carcinogenic effects

Excessive lachrymation  
Erythema  
Dermatitis  
See Section 11 for more detailed information on health effects and symptoms.

Causes skin irritation.  
Causes serious eye damage.  
May cause cancer by inhalation.

Protection of first-aiders

: Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.

Notes to physician

: Treat symptomatically.

---

## 5. Firefighting measures

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific extinguishing methods

: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters

: In the event of fire, wear self-contained breathing apparatus.

---

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.  
Avoid breathing dust.  
Deny access to unprotected persons.

Environmental precautions

: Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust.  
Keep in suitable, closed containers for disposal.

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**7. Handling and storage**

- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Prevent unauthorized access.  
Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.
- Materials to avoid : No data available

**8. Exposure controls/personal protection**

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
Quartz (SiO <sub>2</sub> )	14808-60-7	OSHA Z-3	TWA	30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 total dust
		OSHA Z-3	TWA	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 respirable
		OSHA Z-3	TWA	250 mppcf / %SiO <sub>2</sub> +5 respirable
		OSHA P0	TWA	0.1 mg/m <sup>3</sup> Respirable fraction
		ACGIH	TWA	0.025 mg/m <sup>3</sup> Respirable fraction
		CAL PEL	PEL	0.3 mg/m <sup>3</sup> Total dust
		CAL PEL	PEL	0.1 mg/m <sup>3</sup> respirable dust fraction
Cement, portland, chemicals	65997-15-1	ACGIH	TWA	1 mg/m <sup>3</sup> Respirable fraction



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		OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA Z-3	TWA	50 Million particles per cubic foot Dust
		OSHA P0	TWA	10 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		CAL PEL	PEL	10 mg/m3 Total dust
		CAL PEL	PEL	5 mg/m3 respirable dust fraction
calcium sulfate	7778-18-9	OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		ACGIH	TWA	10 mg/m3 Inhalable fraction
Limestone	1317-65-3	OSHA Z-1	TWA	15 mg/m3 total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total

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		OSHA P0	TWA	5 mg/m3 Respirable fraction
		OSHA P0	TWA	15 mg/m3 Total dust
		OSHA P0	TWA	5 mg/m3 respirable dust fraction
		CAL PEL	PEL	10 mg/m3 Total dust
		CAL PEL	PEL	5 mg/m3 respirable dust fraction
		NIOSH REL	TWA	5 mg/m3 Respirable
		NIOSH REL	TWA	10 mg/m3 total

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection  
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling

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chemical products if a risk assessment indicates this is necessary.

- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Wash thoroughly after handling.  
Avoid breathing dust.

---

## 9. Physical and chemical properties

- Appearance : powder
- Colour : grey
- Odour : characteristic
- Odour Threshold : No data available
- Flash point : Note: Not applicable
- Ignition temperature : No data available
- Decomposition temperature : No data available
- Lower explosion limit (Vol%) : No data available
- Upper explosion limit (Vol%) : No data available
- Flammability (solid, gas) : No data available
- Oxidizing properties : No data available
- pH : ca. 11
- Melting point/range / Freezing point : No data available  
: Note: Not applicable
- Vapour pressure : No data available
- Density : ca.1.17 g/cm<sup>3</sup>  
at 68 °F (20 °C)
- Water solubility : No data available

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Partition coefficient: n-octanol/water	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Note: Not applicable
Relative vapour density	:	No data available
Evaporation rate	:	No data available
Burning rate	:	No data available
Volatile organic compounds (VOC) content	:	No data available

---

## 10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available

---

## 11. Toxicological information

Not classified based on available information.

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

May cause cancer by inhalation.

**IARC** Group 1: Carcinogenic to humans

**NTP** Quartz (SiO<sub>2</sub>) 14808-60-7  
Known to be human carcinogen

Quartz (SiO<sub>2</sub>) 14808-60-7

### Reproductive toxicity

Not classified based on available information.

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**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Prolonged exposure can cause silicosis.

**Aspiration toxicity**

Not classified based on available information.

---

**12. Ecological information**

Other information

Do not empty into drains; dispose of this material and its container in a safe way.

---

**13. Disposal considerations**

**Disposal methods**

Waste from residues

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

**14. Transport information**

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**Special precautions for user**

No data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

---

**15. Regulatory information**

**TSCA list**

: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.  
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**16. Other information**

**HMIS Classification**

<b>Health</b>	*	3
<b>Flammability</b>		0
<b>Physical Hazard</b>		0
<b>Personal Protection</b>		X

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

## SCHÖNOX ZM

### **Notes to Reader**

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# Safety Data Sheet

## Shannon Specialty Floors TUF STIK-9000

Revision date: May 22, 2015

Version: 1

### 1. Identification

#### **Shannon Specialty Floors TUF STIK- 9000**

Recommended use of the chemical and restriction on use: interior installation of flooring material over approved subfloors – tile over tile application, luxury vinyl tile and plank, vinyl composition tile, homogenous vinyl sheet goods, and polyolefin tile and sheet goods.

#### **Details of the supplier of the safety data sheet**

##### Company:

Shannon Specialty Floors  
1005 South 60<sup>th</sup> Street  
Milwaukee, WI 53214

Telephone number: (414) 771-9166

**Emergency Telephone Number: Chemtrec 1-800-424-9300**  
CCN794556

#### **Other Means of Identification**

Chemical Family: Amide-Ester-Acrylate blend

---



2. Hazards identification

According to regulation 2012 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

**Classification of the Product:**

No need for classification according to GHS criteria for this product.

**Label Elements**

This product does not require a hazard warning label in accordance with GHS criteria.

**Hazards not otherwise classified**

None known if used according to instructions. Irritation may occur when in contact with eyes and skin.

**Emergency Overview**

Caution:

May cause skin irritation if not removed after skin contact. Use with local exhaust ventilation.

Use protective equipment for eyes, skin protection.

---

3. Composition / Information on Ingredients

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

<u>CAS number</u>	<u>Content</u>	<u>Chemical Name</u>
Trade Secret	10-20	Tackifier resin
Trade Secret	40-50	Acrylic latex
7732-18-5	10-20	Water

#### 4. First Aid Measures

##### Description of First Aid measures

###### General Advice:

Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

###### If inhaled:

Remove individual to fresh air if needed.

###### If on Skin:

Wash with mild soap and water.

###### If in eyes:

Open eyelids and flush with running water for at least 15 minutes.

###### If Swallowed:

Do not induce vomiting. Seek medical help immediately.

##### Most Important symptoms and effects, both acute and delayed

Not expected due to non- classification of the product.

##### Indication of any immediate medical attention and special treatment needed

###### Note to physician

Treatment: Symptomatic treatment

---

#### 5. Fire-Fighting Measures

##### Extinguishing Media

None needed in wet state. Product is water based.

Dry material will burn. Use Water spray, foam, dry powder when needed.

##### Special hazards arising from the substance or mixture

Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

Advice for fire-fighters

Wear self-contained breathing apparatus and turn out gear.

**Further Information:**

Dispose debris and contaminated clothing in accordance with regulations.

---

**6. Accidental release measures**

Further accidental release measures: Slip hazard when spilled.

**Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid contact with skin and eyes.

**Environmental Precautions**

Do not release spilled material into natural waters.

**Methods and material for containment and cleaning up**

Remove material using absorbents. Scrape off excess and place in closed DOT approved containers for disposal.

---

**7. Handling and Storage**

**Precautions for Safe Handling**

Do not puncture. Keep out of the reach of children.

**Conditions for safe storage, including any incompatibilities**

Keep from freezing. Avoid extreme temperatures.

---

**8. Exposure Control/ Personal Protection**

**Advice on system design:** Maintain proper ventilation.

---

**Personal protective equipment:**

**Respiratory protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin protection:** chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye protection:** safety glasses, goggles, or face shield

**General safety and hygiene safety measures:**

Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

---

## 9. Physical and Chemical Properties

**Form:** medium viscosity liquid

**Odor:** mild

**Odor threshold:** no data

**Color:** off white to cream

**pH value:** 9.0 – 9.5

**Melting point:** not applicable

**Boiling point:** similar to water

**Flash point:** not applicable

**Flammability:** none flammable

**Lower Explosion Limit:** low

**Upper Explosion Limit:** low

**Vapor Pressure:** low

**Density:** 7.75 – 8.25 lbs. per gallon **Relative**

**density:** 0.93 – 0.99 grams / cm<sup>3</sup>

**Vapor density:** low

**Partition Coefficient n-octanol /water (log Pow):** no data **Self- ignition temperature:** not applicable

**Viscosity, dynamic:** 50,000 – 62,500 cps

**Solubility in water:** limited

**Miscibility in water:** miscible

**Evaporation rate:** same as water

**Other information:**

---

## 10. Stability and Reactivity

**Reactivity:** Stable

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None, product is stable.

**Conditions to avoid:** Extreme temperatures.

**Incompatible materials:** None known

**Hazardous decomposition products:** None known.

---

**11. Toxicological Information**

No data available

**Primary routes of exposure:** respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

**Acute Toxicity / Effects**

Acute toxicity: May cause irritation upon contact.

**Chronic Toxicity Effects**

Repeated dose toxicity: no data available  
Genetic toxicity: no data available  
Carcinogenicity: not carcinogenic  
Reproductive toxicity: no data available  
Teratogenicity: no data available  
Experiences in humans

Other Information

---

**12. Ecological Information**

No data available

---

**13. Disposal Considerations**

Abide by all State, federal and local regulations

---

**14. Transport Information**

Proper Shipping name: Not applicable  
Proper Hazard Class: Not hazardous  
Hazard Code: None hazardous  
Bill of Lading Description: **Adhesives, NOI**

---

**15. Regulatory Information:**

## **Federal Regulations**

### **Registration status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

### **State regulations:**

#### **CA Prop 65:**

**Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.**

#### **NFPA Hazard Codes:**

**Health: 1      Fire: 0    Reactivity: 0    Special:**

#### **HMIS rating:**

**Health: 1      Flammability: 0      Physical hazard: 0**

---

## **16. Other Information**

**SDS prepared by:** supplier for Shannon Specialty Floors

**SDS prepared on:** May, 22, 2015

Shannon Specialty Floors believes the data set forth herein are accurate as of the date hereof. Shannon Specialty Floors makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

# TAYLOR

## Safety Data Sheet

### Shaw 1000 Superior Grade Carpet Adhesive

Revision date: Oct. 13, 2015

Version: 2

#### 1. Identification

##### Shaw 1000 Superior Grade Carpet Adhesive

Recommended use of the chemical and restriction on use: interior installation of flooring material over approved subfloors – vinyl composition tile

##### Details of the supplier of the safety data sheet

Manufactured for: Shaw Industries  
P.O. Drawer 2128  
Dalton, GA

##### Company:

W.F.Taylor LLC  
11545 Pacific Avenue  
Fontana, CA 92337, USA

Telephone number: (800) 397-4583

**Emergency Telephone Number:** 1-800-535-5053

##### Other Means of Identification

Chemical Family: Amide-Ester-Synthetic latex blend

---

#### 2. Hazards identification

According to regulation 2012 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

**Classification of the Product:**

No need for classification according to GHS criteria for this product.

**Label Elements**

This product does not require a hazard warning label in accordance with GHS criteria.

**Hazards not otherwise classified**

None known if used according to instructions. Irritation may occur when in contact with eyes and skin.

**Emergency Overview**

Caution:

May cause skin irritation if not removed after skin contact.

Use with Use with local exhaust ventilation.

Use protective equipment for eyes, skin protection.

---

**3. Composition / Information on Ingredients**

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

<u>CAS number</u>	<u>Content</u>	<u>Chemical Name</u>
Trade Secret	1-10	Tackifier resin
Trade Secret	5-10	SBR latex
7732-18-5	25-35	Water
1332-58-7	20-30	Kaolin clay



#### 4. First Aid Measures

##### Description of First Aid measures

###### General Advice:

Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

###### If inhaled:

Remove individual to fresh air if needed.

###### If on Skin:

Wash with mild soap and water.

###### If in eyes:

Open eyelids and flush with running water for at least 15 minutes.

###### If Swallowed:

Do not induce vomiting. Seek medical help immediately.

##### Most Important symptoms and effects, both acute and delayed

Not expected due to non- classification of the product.

##### Indication of any immediate medical attention and special treatment needed

###### Note to physician

Treatment: Symptomatic treatment

---

#### 5. Fire-Fighting Measures

##### Extinguishing Media

None needed in wet state. Product is water based.

Dry material will burn. Use Water spray, foam, dry powder when needed.

##### Special hazards arising from the substance or mixture

Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

Advice for fire-fighters

Wear self-contained breathing apparatus and turn out gear.

##### Further Information:

Dispose debris and contaminated clothing in accordance with regulations.

---

## 6. Accidental release measures

### Further accidental release measures:

Slip hazard when spilled.

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid contact with skin and eyes.

### **Environmental Precautions**

Do not release spilled material into natural waters.

### **Methods and material for containment and cleaning up**

Remove material using absorbents. Scrape off excess and place in closed DOT approved containers for disposal.

## 7. Handling and Storage

### **Precautions for Safe Handling**

Do not puncture. Keep out of the reach of children.

### **Conditions for safe storage, including any incompatibilities**

Keep from freezing. Avoid extreme temperatures.

---

## 8. Exposure Control/ Personal Protection

**Advice on system design:** Maintain proper ventilation.

---

### **Personal protective equipment:**

**Respiratory protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin protection:** chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye protection:** safety glasses, goggles, or face shield

### **General safety and hygiene safety measures:**

Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

---

## 9. Physical and Chemical Properties

**Form:** medium viscosity liquid

**Odor:** mild

**Odor threshold:** no data

**Color:** off white to cream

**pH value:** 9.8 – 10

**Melting point:** not applicable

**Boiling point:** similar to water

**Flash point:** not applicable

**Flammability:** none flammable

**Lower Explosion Limit:** low

**Upper Explosion Limit:** low

**Vapor Pressure:** low

**Density:** 9.85 – 10.45 lbs. per gallon

**Relative density:** 1.18 – 1.25 grams / cm<sup>3</sup>

**Vapor density:** low

**Partition Coefficient n-octanol /water (log Pow):** no data

**Self- ignition temperature:** not applicable

**Viscosity, dynamic:** 125,000 – 150,000 cps

**Solubility in water:** limited

**Miscibility in water:** miscible

**Evaporation rate:** same as water

**Other information:**

---

## 10. Stability and Reactivity

**Reactivity:** Stable

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None, product is stable.

**Conditions to avoid:** Extreme temperatures.

**Incompatible materials:** None known

**Hazardous decomposition products:** None known.

---

## 11. Toxicological Information

No data available

**Primary routes of exposure:** respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

**Acute Toxicity / Effects**

Acute toxicity: May cause irritation upon contact.

**Chronic Toxicity Effects**

Repeated dose toxicity: no data available

Genetic toxicity: no data available

Carcinogenicity: not carcinogenic

Reproductive toxicity: no data available

Teratogenicity: no data available

Experiences in humans

Other Information

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**12. Ecological Information**

No data available

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**13. Disposal Considerations**

Abide by all State, federal and local regulations

---

**14. Transport Information**

Proper Shipping name: Not applicable

Proper Hazard Class: Not hazardous

Hazard Code: None hazardous

Bill of Lading Description: **Adhesives, NOI**

---

**15. Regulatory Information:**

**Federal Regulations**

**Registration status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

**State regulations:**

**CA Prop 65:**

**Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.**

**NFPA Hazard Codes:**

**Health: 1      Fire: 0    Reactivity: 0    Special:**

**HMIS rating:**

**Health: 1      Flammability: 0      Physical hazard: 0**

---

**16. Other Information**

**SDS prepared by:** W.F. Taylor LLC SDS Group

**SDS prepared on:** Oct. 13, 2015

Shaw Industries believes the data set forth herein are accurate as of the date hereof. Shaw Industries makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

## Safety Data Sheet

### SHAW 1200

Safety Data Sheet dated: 5/8/2015 - version 1

Date of first edition: 5/8/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: SHAW 1200

### Recommended use of the chemical and restrictions on use

Recommended use: Flooring Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Shaw Industries

616 East Walnut Avenue - 30722-2128 - Dalton - GA - USA

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2B	Causes eye irritation
Carc. 1A	May cause cancer if inhaled.

### Label elements

#### Symbols:



Danger

Code	Description
------	-------------

H315	Causes skin irritation.
H320	Causes eye irritation
H350.A	May cause cancer if inhaled.

Code	Description
------	-------------

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264.2	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321.A	Specific treatment (see supplementary instructions on this label)
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

**Hazards not otherwise classified identified during the classification process:**

None

---

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS:64741-96-4	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

---

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

- Storage temperature: N.A.
- Incompatible materials:
  - None in particular.
- Instructions as regards storage premises:
  - Adequately ventilated premises.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

- Eye protection:
  - Use close fitting safety goggles, don't use eye lens.
- Protection for skin:
  - Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
- Protection for hands:
  - Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
- Respiratory protection:
  - Use adequate protective respiratory equipment.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance and colour: Paste beige
- Odour: characteristic
- Odour threshold: N.A.
- pH: 9.00
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: N.A.
- Flash point: >93,0 °C (199,4 °F) ( Closed Cup )
- Evaporation rate: N.A.
- Upper/lower flammability or explosive limits: N.A.
- Vapour density: N.A.
- Vapour pressure: N.A.
- Relative density: N.A.
- Solubility in water: N.A.
- Solubility in oil: N.A.
- Partition coefficient (n-octanol/water): N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.
- Solid/gas flammability: N.A.

### Other information

- Substance Groups relevant properties N.A.
- Miscibility: N.A.



Fat Solubility: N.A.  
Conductivity: N.A.

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## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand    Group 1

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS: 64741-96-4	LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss> 5000mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna> 1000mg/L 48h IUCLID
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

### Persistence and degradability

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

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**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT Label(s): N/A

DOT Symbol: N/A

DOT Cargo Aircraft: N/A

DOT Passenger Aircraft: N/A

DOT Bulk: N/A

DOT Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subrisk: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Petroleum distillates, solvent-refined heavy naphthenic	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
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#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Silica Sand

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## 16. OTHER INFORMATION

Code	Description
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Date 5/8/2015 Production Name SHAW 1200

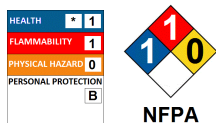
Page n. 6 of 7

H315	Causes skin irritation.
H320	Causes eye irritation
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 5/8/2015 - version 1

Product code: 2900

### Additional classification information



HMIS Health: 1 = SLIGHT

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = SLIGHT

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.****W. F. Taylor Co., Inc.**

11545 Pacific Avenue  
Fontana, CA 92337-8228  
951/360-6677

CHEMICAL EMERGENCY HOTLINE 1-800-535-5053

---

PRODUCT NAME: **Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet**  
ITEM NUMBER: 350-4-SI  
ITEM DESCRIPTION: Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet  
PRODUCT DESCRIPTION: Viscous Aqueous Paste  
CHEMICAL FAMILY: Acrylic Latex, Resin Blend  
REVISION DATE: 02/19/14 REVIEW DATE: / / PRINT DATE: 02/13/15 PRINT TIME: 15:42

Material Name: Acrylic Latex, Resin Blend  
Product Use: Flooring Adhesive  
Manufacturer Information: W.F. Taylor Co., Inc.  
11545 Pacific Ave. Fontana, CA 92337  
(951) 360-6677

In the event of chemical emergency involving a spill, leak, fire, explosion, exposure or accident, contact the following number:

Emergency 24 hour number: 1-800-535-5053

---

**SECTION 2 - HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Irritating to the eyes.

HAZARD STATEMENT: Inhalation may cause respiratory tract irritation. Contact with eyes and skin may result in irritation. Ingestion may result in gastric disturbances.

POTENTIAL HEALTH EFFECTS - EYES: Vapor may cause mild irritation.

POTENTIAL HEALTH EFFECTS - SKIN: May cause slight irritation.

POTENTIAL HEALTH EFFECTS - INGESTION: Not a likely route of entry under proper handling conditions. may cause vomiting. Symptoms may be same as inhalation.

POTENTIAL HEALTH EFFECTS - INHALATION: May cause slight irritation to the upper respiratory tract.

MEDICAL CONDITIONS AGGAVATED BY EXPOSURE: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: None identified.

HMIS RATINGS: Health: 1 Fire: 0 Reactivity: 0

Personal Protection: Safety glasses, gloves

HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

\* = Chronic Hazard

---

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

PRODUCT NAME: **Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet**  
 ITEM NUMBER: 350-4-SI  
 ITEM DESCRIPTION: Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet  
 REVISION DATE: 02/19/14 REVIEW DATE: / / PRINT DATE: 02/13/15 PRINT TIME: 15:42

Hazard CAS # WT/Wt % Less Than

NO HAZARDOUS INGREDIENTS PER CURRENT OSHA REGULATIONS

CAS#	Component	Percent
Proprietary	Acrylic Copolymer	40 - 100
Proprietary	Acrylic Copolymer	1-5
Proprietary	Resin-Rosin Ester Mixture	4-15

**SECTION 4 - FIRST AID MEASURES**

First Aid- EYES: wash eyes with water for al least 15 minutes. If irritation persists, seek medical attention.

First Aid - SKIN: Remove from skin and wash with soap and water. If irritation persists, seek medical attention.

First Aid - INGESTION: If swallowed, call physician. Do not induce vomiting.

First Aid- INHALATION: Move to fresh air. Administer oxygen if necessary. Seek medical attention.

First Aid: NOTES TO PHYSICIAN: Provide general supportive measures and treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES**

GENERAL FIRE HAZARDS: This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a fire hazard.

HAZARDOUS COMBUSTION PRODUCTS: Upon decomposition, this prodcut emits carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

EXTIGUISHING MEDIA: Water spray, carbon dioxide, foam, and dry chemical.

FIRE FIGHTING EQUIPMENT/ INSTRUCTIONS: Use self-contained breathing apparatus.

NFPA RATINGS: Health - 1 Fire - 0 Reactivity - 0

HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

PRODUCT NAME: **Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet**  
ITEM NUMBER: 350-4-SI  
ITEM DESCRIPTION: Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet  
REVISION DATE: 02/19/14 REVIEW DATE: / / PRINT DATE: 02/13/15 PRINT TIME: 15:42

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PERSONAL PRECAUTIONS: Wear appropriate protective equipment and clothing during clean-up.

CONTAINMENT PROCEDURES: Keep out of sewer systems to prevent blockage due to polymer deposits. Use absorbent material to collect an/or scrape up excess and place into closed DOT approved containers for disposal.

ENVIRONMENTAL PRECAUTIONS: Dispose of waste material according to Local, State, Federal and Provincial Environmental regulations.

CLEAN-UP PROCEDURES: Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up.

EVACUATION PROCEDURES: None Identified.

SPECIAL PROCEDURES: Regulations vary. Consult local authorities before disposal.

---

#### **SECTION 7 - HANDLING AND STORAGE**

HANDLING PROCEDURES: Do not induce vomiting if ingested. Use this product with adequate ventilation. Keep out of the reach of children.

STORAGE PROCEDURES: Protect from extreme temperature conditions.

---

#### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

COMPONENT EXPOSURE LIMITS: ACGIH, OSHA, NIOSH or the provinces of Canada have not developed exposure limits for any of this product's components.

VENTILATION AND ENGINEERING CONTROLS: Use local exhaust. Do not use closed air circulating system. Open windows and doors if necessary.

##### **PERSONAL PROTECTIVE EQUIPMENT**

Personal Protective Equipment - EYES/FACE: Wear safety glasses with side shields.  
Personal Protective Equipment - SKIN: The use of nitrile-latex gloves is recommended.  
Personal Protective Equipment - RESPIRATORY: NIOSH Respirator if needed.  
Personal Protective Equipment - GENERAL: Launder contaminated clothing before use. Use good industrial hygiene practices in handling this material.

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#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

PRODUCT NAME: **Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet**  
 ITEM NUMBER: 350-4-SI  
 ITEM DESCRIPTION: Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet  
 REVISION DATE: 02/19/14 REVIEW DATE: / / PRINT DATE: 02/13/15 PRINT TIME: 15:42

APPEARANCE:	Off White	ODOR:	Mild
PHYSICAL STATE:	Viscous aqueous state	pH:	8.0 - 9.5
VAPOR PRESSURE:	Low	VAPOR DENSITY:	Same as water
BOILING POINT:	Same as water	MELTING POINT:	N/A
SOLUBILITY (H <sub>2</sub> O):	Not established	SPECIFIC GRAVITY:	1.0 - 1.10
EVAPORATION RATE:	Same as water	VOC:	Negligible
OCTANOL/ H <sub>2</sub> O COEFF.:	Not established		
FLASH POINT:	NA	UPPER FLAMMABILITY LIMIT (UFL):	NA
FLASH POINT METHOD:	Pensky[Martin C.C.]	LOWER FLAMMABILITY LIMIT (LFL):	NA
AUTO IGNITION:	NA	BURNING RATE:	NA

PHYSICAL PROPERTIES - ADDITIONAL INFORMATION: The data provided in this section is to be used for product safety handling purposes only.

### SECTION 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

CHEMICAL STABILITY: Stable

CHEMICAL STABILITY - CONDITIONS TO AVOID: Keep away from extreme temperature conditions.

INCOMPATIBILITY: Oxidizing Materials

HAZARDOUS DECOMPOSITION: Oxides of carbon, water, and organic compounds of unknown structures.

HAZARDOUS POLYMERIZATION: Will not occur.

### SECTION 11 - TOXICOLOGICAL INFORMATION

#### ACUTE DOSE EFFECTS

- A. GENERAL PRODUCT INFORMATION: No information available for this product.
- B. COMPONENT ANALYSIS: LD50/LC50: No information available for the product.

#### CARCINOGENITY

- A. GENERAL PRODUCT INFORMATION: No information available for the product.
- B. COMPONENT CARCINOGENITY: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

SENSITIZATION: No information available for this product.

### SECTION 12 - ECOLOGICAL INFORMATION



PRODUCT NAME: **Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet**  
 ITEM NUMBER: 350-4-SI  
 ITEM DESCRIPTION: Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet  
 REVISION DATE: 02/19/14 REVIEW DATE: / / PRINT DATE: 02/13/15 PRINT TIME: 15:42

ECOTOXICITY

A: GENERAL PRODUCT INFORMATION: No information available for this product.  
 B: COMPONENT ANALYSIS - ECOTOXICITY - AQUATIC TOXICITY: No ecotoxicity data are available for this product's components.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

US EPA WASTE NUMBER AND DESCRIPTIONS

A. GENERAL PRODUCT INFORMATION: No additional information available.  
 B. COMPONENT WASTE NUMBERS: No EPA Waste Numbers are applicable for this product's components.

DISPOSAL INSTRUCTIONS: Waste must be handled in accordance with all federal, state, provincial and local regulations. Consult authorities before disposal. See Section 7 for Handling procedures. See Section 8 for personal Protective Equipment recommendations.

**SECTION 14 - TRANSPORTATION INFORMATION**

INTERNATIONAL TRANSPORTATION REGULATIONS: Not regulated as dangerous goods.

**SECTION 15 - REGULATORY INFORMATION**

US FEDERAL REGULATIONS

A. GENERAL PRODUCT INFORMATION: All components are on the US EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.  
 B. COMPONENT ANALYSIS: None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A) SARA Section 312 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

STATE REGULATIONS

A: GENERAL PRODUCT INFORMATION: Other State regulations amy apply. Check individual state requirements.  
 B: COMPONENT ANALYSIS - STATE: None of this products components are listed on the state lists from CA, MA, MN, NJ, PA or RI.

California Proposition 65: This product contains a chemical(s) known to the State of California to cause cancer and/or reproductive harm.

CANADIAN WHMIS INFORMATION

A: GENERAL PRODUCT INFORMATION: Not regulated.  
 B: COMPONENT ANALYSIS - WHMIS IDL: No components are listed in the WHMIS IDL.

WHMIS CLASSIFICATION: Not Regulated

ADDITIONAL REGULATORY INFORMATION

A: GENERAL PRODUCT INFORMATION: Supplier(s) of propriety component(s) state that these components are contained on the TSCA inventory.  
 B: COMPONENT ANALYSIS - INVENTORY

COMPONENT	CAS #	TSCA	CAN
Acrylic Copolymer	Proprietary	Yes	DSL
Acrylic Copolymer	Proprietary	Yes	DSL

PRODUCT NAME: **Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet**  
 ITEM NUMBER: 350-4-SI  
 ITEM DESCRIPTION: Shaw 350 PS Adhesive for Fiberglass Backed Vinyl Sheet  
 REVISION DATE: 02/19/14 REVIEW DATE: / / PRINT DATE: 02/13/15 PRINT TIME: 15:42

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Resin-Rosin Ester Mixture      Proprietary      Yes      DSL

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**SECTION XVI - OTHER INFORMATION**

SHAW INDUSTRIES EXPRESSLY DISCLAIMS ALL EXPRESS OR APPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN. ALL INFORMATION APPEARING HEREIN IS BASED UPON A DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, SHAW INDUSTRIES MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR EFFICIENCY. CONDITIONS OF USE ARE BEYOND SHAW'S CONTROL AND THEREFOR USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM PUBLICATION OF USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.

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Committed to Innovation  
and Technology . . .

# SAFETY DATA SHEET

according to EC directive 2004/37/EC  
98/24/EC  
92/85/EEC

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## SHAW 3500

### 1. Material / preparation and company designation

Company: Shaw Industries, Inc.  
P.O. Drawer 2128  
Dalton, GA 30722  
Tel: 800-441-7429  
Emergency Telephone No: 800-535-5053  
Manufacturing location: RESACA, GA 30735

**Emergency phone (CHEMTREC):** (800) 424-9300

Date Printed: 02/16/2011  
Date Revised: 02/16/11  
Supersedes: 03/07/08

### 2. List / data of components

Information on hazardous ingredients: No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and/or 40 CFR 372 are present.

Chemical name: Styrene-Butadiene Water Emulsion Latex Adhesive  
Product code: 3500  
CAS-no.: mixture  
EC-no.: N/A  
Formula: No information available.

%w/w  
Hazard symbol: N/A  
R-phrases: N/A  
HMIS codes: 110B

See section 16 for the full text of the Hazard symbols and R-phrases.

### 3. Possible hazards

May cause slight irritation of the skin and eyes. May be an ingestion hazard. This product is not for human consumption.

### 4. First aid measures

**Inhalation:** Remove to fresh air immediately and consult medical attention from a licensed healthcare professional.

**Skin contact:** Wash affected area immediately in flowing water (warm if readily available) for at least 15 minutes (carefully remove contaminated or protective clothing while washing) and consult medical attention from a licensed healthcare professional.

**Eye contact:** Flush eyes immediately with plenty of water for 15 minutes including under upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a licensed healthcare professional as soon as possible.

**Ingestion:** Never give anything by mouth if victim is unconscious or having convulsions; seek medical attention from a licensed healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.



# SAFETY DATA SHEET

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## SHAW 3500

### 5. Measures in case of fire

**Suitable extinguishing media:** Chemical Foam, CO<sub>2</sub>, Water Fog.

**Hazardous decomposition/combustion products:** Thermal decomposition should produce only normal Hydrocarbon combustion products. Products of thermal decomposition may be harmful.

**Special protective equipment for fire fighters:** None; this product is non-flammable in aqueous form (as supplied).

**Other information:** None known; non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Firefighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing. Use water fog to cool containers exposed to extreme heat.

### 6. Accidental release procedures

**personal precautions:** Use protective equipment when in confined area. Self-contained breathing apparatus must be available in case of emergency. Use caution to avoid falls.

**environmental precautions:** Ventilate area and evacuate non-essential personnel. Dike and contain spill for possible recovery and to prevent from entering waterways. Eliminate sources of ignition from the spill area.

**methods for cleaning up / taking up:** Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces or absorbed onto inert material and handled as solid waste. Place discarded material in closed, labelled containers for disposal. Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Must be disposed of in accordance with all local, state, federal and international regulations.

### 7. Handling and storage

Adhere to work practice rules established by government regulations (e.g. OSHA).

**Advice on protection against fire and explosion:** None known.

**Storage requirements:** Use reasonable care to avoid skin and eye contact. Do not eat, drink or smoke in working area. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Keep containers closed when not in use. Protect containers against physical damage. Store in a cool (4°C – 43°C / 40°F – 110°F), dry, well-ventilated area inside. Do not allow product to freeze. If needed, stir before using. 'Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Any use of this product in a process should be evaluated to establish and maintain safe operating procedures.



## SHAW 3500

### 8. Engineering controls

**Exposure limits:** No information available. Consult local authorities for acceptable exposure limits.

**Personal protection:** None necessary under normal conditions (adequate ventilation). If necessary, use NIOSH-approved respiratory protection. Recommended Local exhaust. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. Ventilation must be adequate to maintain contaminant concentration below permissible exposure limits. Ventilation should be in accordance with OSHA regulations. Properly maintain and have readily available an eyewash/safety shower facility in the work area.

**Hand protection:** Use gloves impervious to this material. The breakthrough time of the selected glove(s) must be greater than the intended use period. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provide by the glove supplier. Before eating, drinking, smoking or using the toilet, wash face and hands thoroughly with soap and water.

**Eye protection:** Recommend the use of safety eyewear including splashguards or side shields. If splashing is likely, wear a face shield.

**Skin and body:** Gloves, Apron or protective coveralls may be needed to help prevent soiling of skin and clothing. Wear proper safety boots. Contaminated clothing and shoes should be cleaned before reuse or disposed of as necessary.

### 9. Physical and chemical data

Test method:

**Form:** Paste

**Colour:** Tan

**Odour:** Mild, characteristic

**Boiling point/range:** 100°C/212°F

**Melting point/range:** No information available.

**Flash point:** >100°C/212°F

**Flammability:** No flashing

**Autoignition temperatures:** No information available.

**Explosion limits:** No information available.

**Vapour pressure:** No information available.

**Density:** 1090 – 1190 kg/m<sup>3</sup>

**Solubility in water:** Insoluble

**Solubility in other solvents:** No information available.

**pH:** 9.5 – 10.5

**Percent Volatile by Volume :** 15 – 25%

**Partition coefficient :** No information available.

**n-octanol/water:** No information available.

### 10. Stability and reactivity data

**Conditions to avoid:** Stable. Avoid freezing, heat, sparks, open flames or sources of ignition. Hazardous polymerization will not occur.

**Materials to avoid:** None known.

**Hazardous decomposition products:** Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.



# SAFETY DATA SHEET

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## SHAW 3500

### 11. Toxicological properties

#### Acute toxicity data:

Oral LD50: No information available.  
Dermal LD50: No information available.  
Inhalation LC50: No information available.

#### Irritation

Skin: Slight Irritant  
Eye: Slight irritant  
Sensitization: No information available.  
Genotoxicity: No information available.

**Other toxicological information:** No information available.

### 12. Ecological properties

#### Ecotoxic effects:

Fish: No information available.  
Daphnia: No information available.  
Algae: 96h-EC50 (Cell count): No information available.

### 13. Disposal conditions

**product:** Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Empty containers retain product residue (liquid and/or vapor) and should be handled with caution. Must be disposed of in accordance with all local, state, federal and international regulations.

**Contaminated packaging:** No information available.

**Waste code number:** Please refer to your specific industry in the EUROPEAN WASTE CATALOGUE.

### 14. Transport information

Not regulated

#### Land transport ADR/RID and GGVS/GGVE

ADR class:	ADR/RID packing group:
RID class:	Substance identification no.:
Hazard identification:	UN no.:

Proper shipping name:

#### Marine transport IMDG / GGV See

IMDG-code class:	Packing group
EMS:	UN-no.:
Marine pollutant:	subsidiary risk:
Proper shipping name:	

#### Air transport ICAO-TI und IATA-DGR

class:	UN-no.:
Packing group	
Proper shipping name:	



# SAFETY DATA SHEET

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## SHAW 3500

### 15. Regulations

*This section is not meant to be all-inclusive; selected regulations are represented.*

#### **SARA 313 SECTION OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:**

To the best of our knowledge, this product does not contain substance(s) above the de minimus level which require reporting under this statute.

#### **COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA, OR SUPERFUND):**

To the best of our knowledge, this product does not contain any substance(s) listed as "Hazardous Substances" which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

#### **STATE REGULATIONS:**

##### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains one or more chemicals known to the State of California to cause cancer and/or reproductive toxicity. This warning is provided in the absence of definitive testing to prove that these risks do not exist.

#### **Labelling in accordance with EC directives / German regulations**

##### **Labelling**

EC-no.: N/A

Symbols: N/A

R-phrases: N/A

S(afety) phrases: S61

Water hazardous class (Germany) (WGK): Product contains a component that is Class 1, #6593 (slightly water endangering).

See section 16 for the full text of the Hazard symbols, R-phrases and S-phrases.

### 16. Other information:

#### **Legend:**

S61 – avoid release to the environment

Do not handle until the Manufacturer's Safety Precautions have been read and understood. This data is up to the current level of our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which Textile Rubber & Chemical Co. or XL Brands Corporation assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

# TAYLOR

## Safety Data Sheet

### Shaw 3600 Ecoworx Broadloom Performance Carpet Adhesive with FloorSept®

Revision date: Oct. 13, 2015

Version: 2

#### 1. Identification

Shaw 3600 Ecoworx Broadloom Performance Carpet Adhesive with FloorSept®

Recommended use of the chemical and restriction on use: interior installation of flooring material over approved subfloors – all non- vinyl backed carpet backings including olefin, unitary, hot melt and urethane laminate in direct glue down or double stick applications.

#### Details of the supplier of the safety data sheet

Manufactured for: Shaw Industries  
P.O. Drawer 2128  
Dalton, GA

#### Company:

W.F.Taylor LLC  
11545 Pacific Avenue  
Fontana, CA 92337, USA

Telephone number: (951) 360-6677

**Emergency Telephone Number:** 1-800-535-5053

#### Other Means of Identification

Chemical Family: Synthetic latex and Hydrocarbon resin blend



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## 2. Hazards identification

According to regulation 2012 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

### **Classification of the Product:**

No need for classification according to GHS criteria for this product.

### **Label Elements**

This product does not require a hazard warning label in accordance with GHS criteria.

### **Hazards not otherwise classified**

None known if used according to instructions. Irritation may occur when in contact with eyes and skin.

### **Emergency Overview**

Caution:

May cause skin irritation if not removed after skin contact.

Use with Use with local exhaust ventilation.

Use protective equipment for eyes, skin protection.

---

## 3. Composition / Information on Ingredients

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

<u>CAS number</u>	<u>Content</u>	<u>Chemical Name</u>
Trade Secret	5 - 10	Tackifier resin
Trade Secret	5 - 10	SBR latex
1332-58-7	15-25	Kaolin Clay
7732-18-5	20-30	Water

---

#### 4. First Aid Measures

##### Description of First Aid measures

###### General Advice:

Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

###### If inhaled:

Remove individual to fresh air if needed.

###### If on Skin:

Wash with mild soap and water.

###### If in eyes:

Open eyelids and flush with running water for at least 15 minutes.

###### If Swallowed:

Do not induce vomiting. Seek medical help immediately.

##### Most Important symptoms and effects, both acute and delayed

Not expected due to non- classification of the product.

##### Indication of any immediate medical attention and special treatment needed

###### Note to physician

Treatment: Symptomatic treatment

---

#### 5. Fire-Fighting Measures

##### Extinguishing Media

None needed in wet state. Product is water based.

Dry material will burn. Use Water spray, foam, dry powder when needed.

##### Special hazards arising from the substance or mixture

Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

Advice for fire-fighters

Wear self-contained breathing apparatus and turn out gear.

##### Further Information:

Dispose debris and contaminated clothing in accordance with regulations.

---

## 6. Accidental release measures

### Further accidental release measures:

Slip hazard when spilled.

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid contact with skin and eyes.

### **Environmental Precautions**

Do not release spilled material into natural waters.

### **Methods and material for containment and cleaning up**

Remove material using absorbents. Scrape off excess and place in closed DOT approved containers for disposal.

## 7. Handling and Storage

### **Precautions for Safe Handling**

Do not puncture. Keep out of the reach of children.

### **Conditions for safe storage, including any incompatibilities**

Keep from freezing. Avoid extreme temperatures.

---

## 8. Exposure Control/ Personal Protection

**Advice on system design:** Maintain proper ventilation.

---

### **Personal protective equipment:**

**Respiratory protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin protection:** chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye protection:** safety glasses, goggles, or face shield

### **General safety and hygiene safety measures:**

Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

---

## 9. Physical and Chemical Properties

**Form:** medium viscosity liquid

**Odor:** mild

**Odor threshold:** no data

**Color:** off white to cream

**pH value:** 9.8 - 10

**Melting point:** not applicable

**Boiling point:** similar to water

**Flash point:** not applicable

**Flammability:** none flammable

**Lower Explosion Limit:** low

**Upper Explosion Limit:** low

**Vapor Pressure:** low

**Density:** 10.3 – 10.9 lbs. per gallon

**Relative density:** 1.24 – 1.31 grams / cm<sup>3</sup>

**Vapor density:** low

**Partition Coefficient n-octanol /water (log Pow):** no data

**Self ignition temperature:** not applicable

**Viscosity, dynamic:** 100,000 – 175,000 cps

**Solubility in water:** limited

**Miscibility in water:** miscible

**Evaporation rate:** same as water

**Other information:**

---

## 10. Stability and Reactivity

**Reactivity:** Stable

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None, product is stable.

**Conditions to avoid:** Extreme temperatures.

**Incompatible materials:** None known

**Hazardous decomposition products:** None known.

---

## 11. Toxicological Information

No data available

**Primary routes of exposure:** respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

**Acute Toxicity / Effects**

Acute toxicity: May cause irritation upon contact.

**Chronic Toxicity Effects**

Repeated dose toxicity: no data available

Genetic toxicity: no data available

Carcinogenicity: not carcinogenic

Reproductive toxicity: no data available

Teratogenicity: no data available

Experiences in humans

Other Information

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**12. Ecological Information**

No data available

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**13. Disposal Considerations**

Abide by all State, federal and local regulations

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**14. Transport Information**

Proper Shipping name: Not applicable

Proper Hazard Class: Not hazardous

Hazard Code: None hazardous

Bill of Lading Description: **Adhesives, NOI**

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**15. Regulatory Information:**

**Federal Regulations**

**Registration status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

**State regulations:**

**CA Prop 65:**

**Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.**

**NFPA Hazard Codes:**

**Health: 1      Fire: 0    Reactivity: 0    Special:**

**HMIS rating:**

**Health: 1      Flammability: 0      Physical hazard: 0**

---

**16. Other Information**

**SDS prepared by:** W.F. Taylor LLC SDS group

**SDS prepared on:** Oct. 13, 2015

Shaw Industries believes the data set forth herein are accurate as of the date hereof. Shaw Industries makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.



# MATERIAL SAFETY DATA SHEET

according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

SHAW 4100

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## 1. Material / preparation and company designation

Company: Shaw Industries, Inc.  
P.O. Drawer 2128 Dalton, GA 30722  
Tel: 8004417429 Emergency Telephone No: 8005355053  
Manufacturing location: RESACA, GA 30735

**Emergency phone (CHEMTREC):** (800) 424-9300

Date printed: 03/30/2011 Date Revised: 03/30/11 Supersedes: 02/16/11

## 2. List / data of components

Information on hazardous ingredients: No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and/or 40 CFR 372 are present.

Chemical name: Acrylic Water Emulsion Adhesive  
Product code: 4100 %w/w:  
CAS-no.: mixture Hazard Symbol: N/A  
EC-no.: N/A R-phases: N/A  
Formula: No information available. HMIS codes: 1-0-0-B  
See section 16 for the full text of the Hazard symbols and R-phrases.

## 3. Possible hazards

May cause slight irritation of the skin and eyes. May be an ingestion hazard. This product is not for human consumption.

## 4. First aid measures

**Inhalation:** Remove to fresh air immediately and consult medical attention from a licensed healthcare professional.

**Skin contact:** Wash affected area immediately in flowing water (warm if readily available) for at least 15 minutes (carefully remove contaminated or protective clothing while washing) and consult medical attention from a licensed healthcare professional.

**Eye contact:** Flush eyes immediately with plenty of water for 15 minutes including under upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a licensed healthcare professional as soon as possible.

**Ingestion:** Never give anything by mouth if victim is unconscious or having convulsions; seek medical attention from a licensed healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.

# MATERIAL SAFETY DATA SHEET

according to EC directive 2004/37/EC  
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## 5. Measures in case of fire

**Suitable extinguishing media:** Chemical Foam, CO<sub>2</sub>, Water Fog.

**Hazardous decomposition/combustion products:** Thermal decomposition should produce only normal Hydrocarbon combustion products. Products of thermal decomposition may be harmful.

**Special protective equipment for fire fighters:** None; this product is non-flammable in aqueous form (as supplied).

**Other information:** None known; non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Firefighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing. Use water fog to cool containers exposed to extreme heat.

## 6. Accidental release procedures

**personal precautions:** Use protective equipment when in confined area. Self-contained breathing apparatus must be available in case of emergency. Use caution to avoid falls.

**environmental precautions:** Ventilate area and evacuate non-essential personnel. Dike and contain spill for possible recovery and to prevent from entering waterways. Eliminate sources of ignition from the spill area.

**methods for cleaning up / taking up:** Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces or absorbed onto inert material and handled as solid waste. Place discarded material in closed, labelled containers for disposal. Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Must be disposed of in accordance with all local, state, federal and international regulations.

## 7. Handling and storage

Adhere to work practice rules established by government regulations (e.g. OSHA).

**Advice on protection against fire and explosion:** None known.

**Storage requirements:** Use reasonable care to avoid skin and eye contact. Do not eat, drink or smoke in working area. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Keep containers closed when not in use. Protect containers against physical damage. Store in a cool (4 °C – 43 °C / 40 °F – 110 °F), dry, well-ventilated area inside. Do not allow product to freeze. If needed, stir before using. 'Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Any use of this product in a process should be evaluated to establish and maintain safe operating procedures.



# MATERIAL SAFETY DATA SHEET

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according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

## 8. Engineering controls

**Exposure limits:** No information available. Consult local authorities for acceptable exposure limits.

**Personal protection:** None necessary under normal conditions (adequate ventilation). If necessary, use NIOSH-approved respiratory protection. Recommended Local exhaust. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. Ventilation must be adequate to maintain contaminant concentration below permissible exposure limits. Ventilation should be in accordance with OSHA regulations. Properly maintain and have readily available an eyewash/safety shower facility in the work area.

**Hand protection:** Use gloves impervious to this material. The breakthrough time of the selected glove(s) must be greater than the intended use period. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provide by the glove supplier. Before eating, drinking, smoking or using the toilet, wash face and hands thoroughly with soap and water.

**Eye protection:** Recommend the use of safety eyewear including splashguards or side shields. If splashing is likely, wear a face shield.

**Skin and body:** Gloves, Apron or protective coveralls may be needed to help prevent soiling of skin and clothing. Wear proper safety boots. Contaminated clothing and shoes should be cleaned before reuse or disposed of as necessary.

## 9. Physical and chemical data

**Form:** Paste

**Color:** White

**Odor:** Mild, characteristic

**Boiling point/range:** 100 °C/212 °F

**Melting point/range:** No information available.

**Flash point:** >100 °C/212 °F

**Flammability:** No flashing

**Autoignition temperatures:** No information available.

**Explosion limits:** No information available.

**Vapor pressure:** No information available.

**Density:** 1090 – 1190 kg/m<sup>3</sup>

**Solubility in water:** Insoluble

**Solubility in other solvents:** No information available.

**pH:** 8.0 – 9.0

**Percent Volatile by Volume :** 30 - 35% (as water)

**VOC Content:** less than 0.5 g/L

**Partition coefficient :** No information available.

**n-octanol/water:** No information available.

# MATERIAL SAFETY DATA SHEET

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according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

## 10. Stability and reactivity data

**Conditions to avoid:** Stable. Avoid freezing, heat, sparks, open flames or sources of ignition. Hazardous polymerization will not occur.

**Materials to avoid:** None known.

**Hazardous decomposition products:** Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

## 11. Toxicological properties Acute toxicity data:

Oral LD50: No information available. Dermal LD50: No information available. Inhalation LC50: No information available.

### Irritation

Skin: Slight Irritant Eye: Slight irritant Sensitization: No information available. Genotoxicity: No information available.

**Other toxicological information:** No information available.

## 12. Ecological properties

### Ecotoxic effects:

Fish: No information available. Daphnia: No information available. Algae: 96h-EC50 (Cell count):

No information available.

## 13. Disposal conditions

**product:** Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Must be disposed of in accordance with all local, state, federal and international regulations.

**Contaminated packaging:** No information available.

**Waste code number:** Please refer to your specific industry in the EUROPEAN WASTE CATALOGUE.

# MATERIAL SAFETY DATA SHEET

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**SHAW 4100**

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## 14. Transport Information

(Not regulated)

### Land Transport ADR/RID and GGVS/GGVE

ADR Class: ADR/RID packing group:

RID Class:

Hazard identification: Substance identification no:  
UN number:

Proper shipping name:

### Marine transport IMDG/GGV See

IMDG-code class: Packing group

UN number:

Subsidiary risk:

EMS:

Marine pollutant:

Proper shipping name:

### Air Transport ICAO-TI und IATA-DGR

Class: UN number:

Packing group

Proper shipping name:

## 15. Regulations

*This section is not meant to be all-inclusive; selected regulations are represented.*

### **SARA 313 SECTION OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:**

To the best of our knowledge, this product does not contain substance(s) above the de minimus level which require reporting under this statute.

### **COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA, OR SUPERFUND):**

To the best of our knowledge, this product does not contain any substance(s) listed as "Hazardous Substances" which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

### **STATE REGULATIONS:**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) This product may contain one or more chemicals known to the State of California to cause cancer and/or reproductive toxicity. This warning is provided in the absence of definitive testing to prove that these risks do not exist.

### **Labelling in accordance with EC directives / German regulations**

EC-no.: N/A

Symbols: N/A

R-phrases: N/A

S(afety) phrases: S61

Water hazardous class (Germany) (WGK): Product contains a component that is Class 1, #6593 (slightly water endangering).

See section 16 for the full text of the Hazard symbols, R-phrases and S-phrases.



# MATERIAL SAFETY DATA SHEET

SHAW 4100

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98/24/EC 92/85/EEC

## 16. Other information:

### Legend:

S61 – avoid release to the environment

Do not handle until the Manufacturer's Safety Precautions have been read and understood. This data is up to the current level of our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which the supplier assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.



# MATERIAL SAFETY DATA SHEET

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## 1. Material / preparation and company designation

Company: Shaw Industries, Inc.  
P.O. Drawer 2128 Dalton, GA 30722  
Tel: 8004417429 Emergency Telephone No: 8005355053  
Manufacturing location: RESACA, GA 30735

**Emergency phone (CHEMTREC):** (800) 424-9300

Date printed: 03/30/2011 Date Revised: 03/30/11 Supersedes: 02/16/11

## 2. List / data of components

Information on hazardous ingredients: No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and/or 40 CFR 372 are present.

Chemical name: Acrylic Water Emulsion Adhesive  
Product code: 4100 %w/w:  
CAS-no.: mixture Hazard Symbol: N/A  
EC-no.: N/A R-phases: N/A  
Formula: No information available. HMIS codes: 1-0-0-B  
See section 16 for the full text of the Hazard symbols and R-phrases.

## 3. Possible hazards

May cause slight irritation of the skin and eyes. May be an ingestion hazard. This product is not for human consumption.

## 4. First aid measures

**Inhalation:** Remove to fresh air immediately and consult medical attention from a licensed healthcare professional.

**Skin contact:** Wash affected area immediately in flowing water (warm if readily available) for at least 15 minutes (carefully remove contaminated or protective clothing while washing) and consult medical attention from a licensed healthcare professional.

**Eye contact:** Flush eyes immediately with plenty of water for 15 minutes including under upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a licensed healthcare professional as soon as possible.

**Ingestion:** Never give anything by mouth if victim is unconscious or having convulsions; seek medical attention from a licensed healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.

# MATERIAL SAFETY DATA SHEET

according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

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## 5. Measures in case of fire

**Suitable extinguishing media:** Chemical Foam, CO<sub>2</sub>, Water Fog.

**Hazardous decomposition/combustion products:** Thermal decomposition should produce only normal Hydrocarbon combustion products. Products of thermal decomposition may be harmful.

**Special protective equipment for fire fighters:** None; this product is non-flammable in aqueous form (as supplied).

**Other information:** None known; non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Firefighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing. Use water fog to cool containers exposed to extreme heat.

## 6. Accidental release procedures

**personal precautions:** Use protective equipment when in confined area. Self-contained breathing apparatus must be available in case of emergency. Use caution to avoid falls.

**environmental precautions:** Ventilate area and evacuate non-essential personnel. Dike and contain spill for possible recovery and to prevent from entering waterways. Eliminate sources of ignition from the spill area.

**methods for cleaning up / taking up:** Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces or absorbed onto inert material and handled as solid waste. Place discarded material in closed, labelled containers for disposal. Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Must be disposed of in accordance with all local, state, federal and international regulations.

## 7. Handling and storage

Adhere to work practice rules established by government regulations (e.g. OSHA).

**Advice on protection against fire and explosion:** None known.

**Storage requirements:** Use reasonable care to avoid skin and eye contact. Do not eat, drink or smoke in working area. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Keep containers closed when not in use. Protect containers against physical damage. Store in a cool (4 °C – 43 °C / 40 °F – 110 °F), dry, well-ventilated area inside. Do not allow product to freeze. If needed, stir before using. 'Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Any use of this product in a process should be evaluated to establish and maintain safe operating procedures.

# MATERIAL SAFETY DATA SHEET

SHAW 4100

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according to EC directive 2004/37/EC  
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## 8. Engineering controls

**Exposure limits:** No information available. Consult local authorities for acceptable exposure limits.

**Personal protection:** None necessary under normal conditions (adequate ventilation). If necessary, use NIOSH-approved respiratory protection. Recommended Local exhaust. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. Ventilation must be adequate to maintain contaminant concentration below permissible exposure limits. Ventilation should be in accordance with OSHA regulations. Properly maintain and have readily available an eyewash/safety shower facility in the work area.

**Hand protection:** Use gloves impervious to this material. The breakthrough time of the selected glove(s) must be greater than the intended use period. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provide by the glove supplier. Before eating, drinking, smoking or using the toilet, wash face and hands thoroughly with soap and water.

**Eye protection:** Recommend the use of safety eyewear including splashguards or side shields. If splashing is likely, wear a face shield.

**Skin and body:** Gloves, Apron or protective coveralls may be needed to help prevent soiling of skin and clothing. Wear proper safety boots. Contaminated clothing and shoes should be cleaned before reuse or disposed of as necessary.

## 9. Physical and chemical data

**Form:** Paste

**Color:** White

**Odor:** Mild, characteristic

**Boiling point/range:** 100 °C/212 °F

**Melting point/range:** No information available.

**Flash point:** >100 °C/212 °F

**Flammability:** No flashing

**Autoignition temperatures:** No information available.

**Explosion limits:** No information available.

**Vapor pressure:** No information available.

**Density:** 1090 – 1190 kg/m<sup>3</sup>

**Solubility in water:** Insoluble

**Solubility in other solvents:** No information available.

**pH:** 8.0 – 9.0

**Percent Volatile by Volume :** 30 - 35% (as water)

**VOC Content:** less than 0.5 g/L

**Partition coefficient :** No information available.

**n-octanol/water:** No information available.

# MATERIAL SAFETY DATA SHEET

SHAW 4100

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according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

## 10. Stability and reactivity data

**Conditions to avoid:** Stable. Avoid freezing, heat, sparks, open flames or sources of ignition. Hazardous polymerization will not occur.

**Materials to avoid:** None known.

**Hazardous decomposition products:** Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

## 11. Toxicological properties Acute toxicity data:

Oral LD50: No information available. Dermal LD50: No information available. Inhalation LC50: No information available.

### Irritation

Skin: Slight Irritant Eye: Slight irritant Sensitization: No information available. Genotoxicity: No information available.

**Other toxicological information:** No information available.

## 12. Ecological properties

### Ecotoxic effects:

Fish: No information available. Daphnia: No information available. Algae: 96h-EC50 (Cell count):

No information available.

## 13. Disposal conditions

**product:** Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Empty' containers retain product residue (liquid and/or vapor) and should be handled with caution. Must be disposed of in accordance with all local, state, federal and international regulations.

**Contaminated packaging:** No information available.

**Waste code number:** Please refer to your specific industry in the EUROPEAN WASTE CATALOGUE.



# MATERIAL SAFETY DATA SHEET

according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

SHAW 4100

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## 14. Transport Information

(Not regulated)

### Land Transport ADR/RID and GGVS/GGVE

ADR Class:                                  ADR/RID packing group:  
RID Class:  
Hazard identification:                      Substance identification no:  
    UN number:  
Proper shipping name:

### Marine transport IMDG/GGV See

IMDG-code class:                              Packing group  
    UN number:  
    Subsidiary risk:

EMS:

Marine pollutant:  
Proper shipping name:

### Air Transport ICAO-TI und IATA-DGR

Class:    UN number:  
Packing group  
Proper shipping name:

## 15. Regulations

*This section is not meant to be all-inclusive; selected regulations are represented.*

### SARA 313 SECTION OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

To the best of our knowledge, this product does not contain substance(s) above the de minimus level which require reporting under this statute.

### COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (CERCLA, OR SUPERFUND):

To the best of our knowledge, this product does not contain any substance(s) listed as "Hazardous Substances" which are subject to CERCLA Section 103 reporting requirements and which are listed in 40 CFR 302.4.

### STATE REGULATIONS:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) This product may contain one or more chemicals known to the State of California to cause cancer and/or reproductive toxicity. This warning is provided in the absence of definitive testing to prove that these risks do not exist.

### Labelling in accordance with EC directives / German regulations

EC-no.: N/A

Symbols: N/A

R-phrases: N/A

S(afety) phrases: S61

Water hazardous class (Germany) (WGK): Product contains a component that is Class 1, #6593 (slightly water endangering).

See section 16 for the full text of the Hazard symbols, R-phrases and S-phrases.



# MATERIAL SAFETY DATA SHEET

SHAW 4100

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according to EC directive 2004/37/EC  
98/24/EC 92/85/EEC

## 16. Other information:

### Legend:

S61 – avoid release to the environment

Do not handle until the Manufacturer's Safety Precautions have been read and understood. This data is up to the current level of our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which the supplier assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

# TAYLOR

## Safety Data Sheet

### Shaw 5000 Pressure Sensitive Biorenewable Adhesive

Revision date: May 22, 2015

Version: 1

#### 1. Identification

##### **Shaw 5000 Pressure Sensitive Biorenewable Adhesive**

Recommended use of the chemical and restriction on use: interior installation of flooring material over approved subfloors – vinyl backed carpet, vinyl backed broadloom carpet and modular tiles.

##### **Details of the supplier of the safety data sheet**

Manufactured for: Shaw Industries  
P.O. Drawer 2128  
Dalton, GA

##### Company:

W.F.Taylor LLC  
11545 Pacific Avenue  
Fontana, CA 92337, USA

Telephone number: (800) 397-4583

**Emergency Telephone Number:** 1-800-535-5053

##### **Other Means of Identification**

Chemical Family: Acrylate latex and resin blend

---

## 2. Hazards identification

According to regulation 2012 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200

### **Classification of the Product:**

No need for classification according to GHS criteria for this product.

### **Label Elements**

This product does not require a hazard warning label in accordance with GHS criteria.

### **Hazards not otherwise classified**

None known if used according to instructions. Irritation may occur when in contact with eyes and skin.

### Labeling of special preparations (GHS):

Product contains the following components and may cause allergic skin reactions: mixture of 1,2 Benzisothiazolin-3-one, 5-chloro-2-methyl-4 isothiazolin-3-one and 2 methyl-4 isothiazolin-3-one. Low concentration of mentioned chemicals in the product is not expected to cause irritation.

**According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200**

### **Emergency Overview**

Caution:

May cause skin irritation if not removed after skin contact.

Use with Use with local exhaust ventilation.

Use protective equipment for eyes, skin protection.

---

## 3. Composition / Information on Ingredients

**According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200**

This product does not contain any components classified as hazardous under the referenced regulation.

**According to Regulation 1994 OSHA Hazard Communication Standard : 29 CFR Part 1910.1200**

<u>CAS number</u>	<u>Content</u>	<u>Chemical Name</u>
Trade Secret	1-10	Hydrocarbon resin

Trade Secret	1-10	Tall Oil Rosin
Trade Secret	40-60	Acrylic latex
64741-96-4	5 - 15	Petroleum Distillate
7732-18-5	15-30	Water

---

#### 4. First Aid Measures

##### Description of First Aid measures

###### General Advice:

Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

###### If inhaled:

Remove individual to fresh air if needed.

###### If on Skin:

Wash with mild soap and water.

###### If in eyes:

Open eyelids and flush with running water for at least 15 minutes.

###### If Swallowed:

Do not induce vomiting. Seek medical help immediately.

###### Most Important symptoms and effects, both acute and delayed

Not expected due to non- classification of the product.

###### Indication of any immediate medical attention and special treatment needed

###### Note to physician

Treatment: Symptomatic treatment

---

#### 5. Fire-Fighting Measures

##### Extinguishing Media

None needed in wet state. Product is water based.

Dry material will burn. Use Water spray, foam, dry powder when needed.

**Special hazards arising from the substance or mixture**

Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

Advice for fire-fighters

Wear self-contained breathing apparatus and turn out gear.

**Further Information:**

Dispose debris and contaminated clothing in accordance with regulations.

---

**6. Accidental release measures**

Further accidental release measures:

Slip hazard when spilled.

**Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Avoid contact with skin and eyes.

**Environmental Precautions**

Do not release spilled material into natural waters.

**Methods and material for containment and cleaning up**

Remove material using absorbents. Scrape off excess and place in closed DOT approved containers for disposal.

**7. Handling and Storage**

**Precautions for Safe Handling**

Do not puncture. Keep out of the reach of children.

**Conditions for safe storage, including any incompatibilities**

Keep from freezing. Avoid extreme temperatures.

---

**8. Exposure Control/ Personal Protection**

**Advice on system design:** Maintain proper ventilation.

---

**Personal protective equipment:**

**Respiratory protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin protection:** chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye protection:** safety glasses, goggles, or face shield

**General safety and hygiene safety measures:**

Wash hands and face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

---

**9. Physical and Chemical Properties**

**Form:** medium viscosity liquid

**Odor:** mild

**Odor threshold:** no data

**Color:** off white to cream

**pH value:** 8.5 – 9.0

**Melting point:** not applicable

**Boiling point:** similar to water

**Flash point:** not applicable

**Flammability:** none flammable

**Lower Explosion Limit:** low

**Upper Explosion Limit:** low

**Vapor Pressure:** low

**Density:** 8.0 – 9.0 lbs. per gallon

**Relative density:** 0.96– 1.08 grams / cm<sup>3</sup>

**Vapor density:** low

**Partition Coefficient n-octanol /water (log Pow):** no data

**Self- ignition temperature:** not applicable

**Viscosity, dynamic:** 45,000 55,000 cps

**Solubility in water:** limited

**Miscibility in water:** miscible

**Evaporation rate:** same as water

**Other information:**

---

**10. Stability and Reactivity**

**Reactivity:** Stable

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None, product is stable.

**Conditions to avoid:** Extreme temperatures.

**Incompatible materials:** None known

**Hazardous decomposition products:** None known.

---

**11. Toxicological Information**

No data available

**Primary routes of exposure:** respiratory, eyes, skin. Ingestion is not likely but might cause gastric disturbances.

**Acute Toxicity / Effects**

Acute toxicity: May cause irritation upon contact.

**Chronic Toxicity Effects**

Repeated dose toxicity: no data available

Genetic toxicity: no data available

Carcinogenicity: not carcinogenic

Reproductive toxicity: no data available

Teratogenicity: no data available

Experiences in humans

Other Information

---

**12. Ecological Information**

No data available

---

**13. Disposal Considerations**

Abide by all State, federal and local regulations

---

**14. Transport Information**

Proper Shipping name: Not applicable

Proper Hazard Class: Not hazardous

Hazard Code: None hazardous

Bill of Lading Description: **Adhesives, NOI**

---

**15. Regulatory Information:**



### **Federal Regulations**

#### **Registration status:**

TSCA: Chemicals contained in the product are either listed or exempt in the U.S. EPA TSCA inventory list.

SARA Title III, Section 312 Hazard Class: None

EPA SARA Title III Section 312: None

#### **State regulations:**

##### **CA Prop 65:**

**Warning: This product may contain a chemical (s) known to the state of California to cause cancer and birth defects or other reproductive harm.**

##### **NFPA Hazard Codes:**

**Health: 1      Fire: 0    Reactivity: 0    Special:**

##### **HMIS rating:**

**Health: 1      Flammability: 0      Physical hazard: 0**

---

## **16. Other Information**

**SDS prepared by:** W.F. Taylor LLC SDS group

**SDS prepared on:** May, 22, 2015

Shaw Industries believes the data set forth herein are accurate as of the date hereof. Shaw Industries makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.



## Safety Data Sheet

### SHAW 5100

Safety Data Sheet dated: 4/29/2015 - version 1

Date of first edition: 4/29/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: SHAW 5100

### Recommended use of the chemical and restrictions on use

Recommended use: Flooring Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Shaw Industries

616 East Walnut Avenue - 30722-2128 - Dalton - GA - USA

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

Classification of the chemical

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

None

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No Data Available

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste beige

Odour: like: Acrylate

Odour threshold: N.A.

pH: 9.25

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >93 °C (200 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: N.A.  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Toxicological information of the product:

No Data Available

#### Substance(s) listed on the IARC Monographs:

None

#### Substance(s) listed as OSHA Carcinogen(s):

None

#### Substance(s) listed as NIOSH Carcinogen(s):

None

#### Substance(s) listed on the NTP report on Carcinogens:

None

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

No Data Available

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

---

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

### 14. TRANSPORT INFORMATION

#### UN number

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

#### UN proper shipping name

ADR-Shipping Name: N/A  
DOT Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

#### Transport hazard class(es)

ADR-Class: N/A  
DOT Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

#### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

#### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT Label(s): N/A  
DOT Symbol: N/A  
DOT Cargo Aircraft: N/A  
DOT Passenger Aircraft: N/A  
DOT Bulk: N/A  
DOT Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR - Hazard identification number: N/A  
ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

### 15. REGULATORY INFORMATION

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

no substances listed

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act**

**CAA listed substances:**

no substances listed

**CWA - Clean Water Act**

**CWA listed substances:**

no substances listed

**USA - State specific regulations**

**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

no substances listed

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

no substances listed

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

no substances listed

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

no substances listed

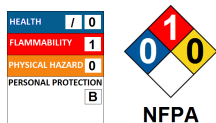
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**16. OTHER INFORMATION**

Safety Data Sheet dated: 4/29/2015 - version 1

Product code: 2992

**Additional classification information**



HMIS Health: 0 = MINIMAL

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = MINIMAL

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**SHAW 5100SD CONDUCTIVE RESILIENT ADH**

Version	Revision Date:	MSDS Number:	Date of last issue: -
1.0	06/10/2015	F000000944	Date of first issue: 06/10/2015

---

**SECTION 1. IDENTIFICATION**

Product name : SHAW 5100SD CONDUCTIVE RESILIENT ADH

Product code : F000000944

**Manufacturer or supplier's details**

Company name of supplier : Shaw Industries

Address : 616 East Walnut Avenue  
Dalton GA 30721

Telephone : (706) 275-3688

Telefax :

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

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## SHAW 5100SD CONDUCTIVE RESILIENT ADH

Version 1.0	Revision Date: 06/10/2015	MSDS Number: F000000944	Date of last issue: - Date of first issue: 06/10/2015
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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

## SHAW 5100SD CONDUCTIVE RESILIENT ADH

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## SHAW 5100SD CONDUCTIVE RESILIENT ADH

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Use NIOSH approved respiratory protection.

Hand protection  
Material

: Impervious gloves

Eye protection

: Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

Skin and body protection

: Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

Protective measures

: Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

: Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: black
Odour	: mild, characteristic
pH	: 7.0 - 9.0
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: No data available
Density	: 960 - 1,060 kg/m <sup>3</sup>
Solubility(ies)	

## SHAW 5100SD CONDUCTIVE RESILIENT ADH

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Water solubility	:	dispersible
Solubility in other solvents	:	Not applicable
Partition coefficient: n-octanol/water	:	No data available
Explosive properties	:	Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Protect from frost.
Incompatible materials	:	Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.

#### Skin corrosion/irritation

##### Product:

Remarks: This information is not available.

#### Serious eye damage/eye irritation

##### Product:

Remarks: This information is not available.

#### Respiratory or skin sensitisation

##### Product:

## SHAW 5100SD CONDUCTIVE RESILIENT ADH

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Remarks: This information is not available.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

**SHAW 5100SD CONDUCTIVE RESILIENT ADH**

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Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

---

**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

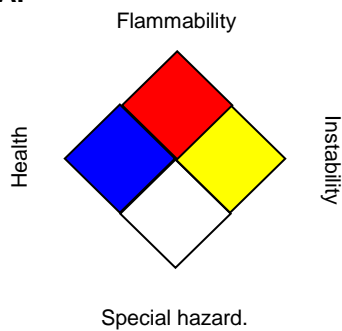
## SHAW 5100SD CONDUCTIVE RESILIENT ADH

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Date of first issue: 06/10/2015

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

## Safety Data Sheet acc. to OSHA HCS

Printing Date 06/19/2015

Revision Number 1

Revision Date 06/19/2015

### 1 Identification

- **Product identifier**
- **Trade name:** *Compu Release Adhesive*
- **Relevant identified uses of the substance or mixture.** *Adhesive*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Royal Coatings and Specialty Polymers  
 863 Main Street  
 Simpsonville, SC 29681  
 Information Phone Number: 864-967-7691*
- **Manufactured For:**  
*Shaw Industries, Inc.  
 P.O. Box Drawer 2128 Dalton, GA 30722  
 Telephone: 800-441-7429*
- **Information department:** *Environment protection department.*
- **Emergency telephone number:** *Infotrac 800-535-5053*

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
*The product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200*
- **Label elements**
- **GHS label elements** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	0	Fire = 0
PHYSICAL HAZARD	0	Physical Hazard = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

USA

(Contd. on page 2)



# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 06/19/2015

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**Trade name: Compu Release Adhesive**

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description: Water Base Adhesive**
- **Hazardous components: No hazardous/reportable components.**

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact: Immediately wash with water and soap and rinse thoroughly.**
- **After eye contact:**  
Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
- **After swallowing:**  
Rinse out mouth with water. Drink 1 - 2 glasses of water but **DO NOT** induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
Seek medical treatment.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment: Protective clothing and respiratory protective device.**

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions: Do not allow to enter sewers/ surface or ground water.**
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Contd. on page 3)

USA

# Safety Data Sheet

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**Trade name: Compu Release Adhesive**

(Contd. of page 2)

See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
  - Avoid prolonged or repeated contact with skin.
  - Avoid contact with eyes.
  - Wash thoroughly after handling.
  - Prevent formation of aerosols.
  - Open containers in a well ventilated area and avoid breathing headspace vapors.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store above 40F.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Protect product from freezing.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment (see listings below)**
- **General protective and hygienic measures:**
  - The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**
  - Nitrile rubber, NBR
  - Chloroprene rubber, CR
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses with side shields.

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Trade name: *Compu Release Adhesive*

(Contd. of page 3)

· **Body protection:** *Protective work clothing*

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

<b>Form:</b>	<i>Paste</i>
<b>Color:</b>	<i>Gray with Black/Brown Colored Fibers</i>
<b>Odor:</b>	<i>Characteristic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>

· **pH-value at 20 °C (68 °F):** *7*· **Change in condition**

<b>Melting point:</b>	<i>Undetermined.</i>
<b>Boiling point:</b>	<i>100 °C (212 °F)</i>

· **Flash point:** *Not applicable.*· **Flammability (solid, gaseous):** *Not applicable.*· **Ignition temperature:****Decomposition temperature:** *Not determined.*· **Auto igniting:** *Product is not selfigniting.*· **Danger of explosion:** *Product does not present an explosion hazard.*· **Vapor pressure at 20 °C (68 °F):** *23 hPa (17 mm Hg)*· **Specific gravity at 20 °C (68 °F):** *1 g/cm<sup>3</sup> (8.345 lbs/gal)*· **Relative density** *Not determined.*· **Vapour density** *Not determined.*· **Evaporation rate** *Not determined.*· **Solubility in / Miscibility with****Water:** *Not miscible or difficult to mix.*· **Partition coefficient (n-octanol/water):** *Not determined.*· **Viscosity:****Dynamic:** *Not determined.***Kinematic:** *Not determined.*· **Solvent content:**

<b>Organic solvents:</b>	<i>0.0 %</i>
<b>Water:</b>	<i>43.0 %</i>
<b>VOC (Per EPA 24)</b>	<i>not available GMS/L</i>

**Solids content:** *not available*· **Other information**

*California*  
 SCAQMD Rule 1168: *VOC Compliant*  
 SCAQMD Rule 443.1: *Grams per liter of material <17.0*  
*Grams per liter of coating <28.0*

USA

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# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 06/19/2015

Revision Number 1

Revision Date 06/19/2015

Trade name: Compu Release Adhesive

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### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Temperatures below 40F (4.4C)
- **Incompatible materials:** Reacts with oxidizing agents.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides  
Hydrocarbons

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** May irritate the skin.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** At present there are no ecotoxicological assessments.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 6)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 06/19/2015

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Trade name: *Compu Release Adhesive*

(Contd. of page 5)

· **Other adverse effects** No further relevant information available.

### \* 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### \* 14 Transport information

- |  |                        |
|--|------------------------|
| · <b>UN-Number</b>   |                        |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | <i>not regulated</i>   |
| · <b>UN proper shipping name</b>   |                        |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | <i>not regulated</i>   |
| · <b>Transport hazard class(es)</b>  |                        |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                        |
| · <b>Class</b>   | <i>not regulated</i>   |
| · <b>Packing group</b>   |                        |
| · <b>DOT, ADR, IMDG, IATA</b>  | <i>not regulated</i>   |
| · <b>Environmental hazards:</b>  | <i>Not applicable.</i> |
| · <b>Special precautions for user</b>  | <i>Not applicable.</i> |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | <i>Not applicable.</i> |
| · <b>UN "Model Regulation":</b>  | -                      |

### \* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

(Contd. on page 7)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 06/19/2015

Revision Number 1

Revision Date 06/19/2015

**Trade name: Compu Release Adhesive**

(Contd. of page 6)

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

· **Water hazard class:** Generally not hazardous for water.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **16 Other information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:** Environment protection department.

· **Creation Date:** 10/25/2013

· **Date of preparation / last revision** 06/19/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

USA

MATERIAL SAFETY DATA SHEET

Glue Dots International  
 5515 South Westridge Drive  
 New Berlin, WI 53151  
 Phone: (262) 814-8500  
 Emergency: (888) 688-7131  
 Date: 02/13/2012

GLUE DOTS® BRAND ADHESIVE PRODUCTS

ADHESIVESCOVERED:  
 Super High Tack

SECTION I. Product Information

Glue Dots®

Product Name: Super High Tack  
 Product Description (product use): Extruded Hot Melt Pressure Sensitive Adhesive  
 Other Name: LokDots

SECTION II. Composition/Information on Ingredients

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Unlisted ingredients are not “hazardous” per the OSHA standard and/or are not found on the WHMIS ingredient disclosure list.

Chemical/CAS#	Percent	OSHA PEL	ACGIH TLV
Severely Hydrotreated Heavy Napthenic Petroleum oil	8-15%	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

See Section XVI for additional information – this material is not considered hazardous per 29 CFR 1910.1200.

SECTION III. Hazards Identification

Emergency Overview

No known effect.

Potential Health Effects

Eyes: No known effect. Skin:

No known effect. Inhalation:

No known effect.

Ingestion: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

Chronic: No anticipated chronic effects.

Regulated Carcinogen Status: This product does not contain regulated levels of NTP, IARC, ACGIH or OSHA listed carcinogens.

Existing Health Conditions Affected by Exposure: No known effect on other illnesses.

SECTION IV. First Aid Measures

No emergency medical treatment necessary.

SECTION V. Fire Fighting Measures

Flash Point: Greater than 450° F

Upper Explosive Limit/Lower Explosive Limit: Not Applicable

Auto-ignition Temperature: Not Applicable

Appropriate Extinguishers: Carbon Dioxide, dry chemical, chemical foam, or water fog.  
Using a direct, straight water stream may tend to spread a fire.

Special Fire Fighting Procedures: None required.

Unusual Fire and Explosion Hazards: None known

Hazardous Combustion Product: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide.

SECTION VI. Accidental Release Measures

Spill or Leak Procedures: Not applicable.

SECTION VII. Handling and Storage

Handling Information: No special handling required.

Storage Information: Consult the Technical Data Sheet (TDS) for specific storage instructions.

SECTION VIII. Exposure Controls/Personal Protection

Eye Protection: Not normally required. Skin

Protection: Not normally required. Respiratory

Protection: Not normally required. Ventilation:

Not normally required.



## SECTION IX. Physical and Chemical Properties

Physical state:	Solid
Color:	Characteristic color
Odor:	Neutral
Odor Threshold:	Not established
Weight per Gallon:	8.17 lbs
Specific Gravity:	.95
pH:	Not applicable
Boiling range:	Not applicable (as supplied)
Freezing/Melting point:	Not established
Vapor Pressure:	Not established
Vapor Density:	Not applicable
Evaporation Rate:	Not applicable
Water/Oil partition Coefficient:	Not established
VOC:	Less than 5 mg/Kg of volatile organic compound emissions are expected at ambient temperature and pressure. Low molecular weight hydrocarbons may be emitted at molten temperatures. Emissions data is best developed by monitoring actual plant conditions.

## SECTION X. Stability and Reactivity Data

Stability: Stable

Incompatibility: Not established

Hazardous Polymerization: Will not occur

## SECTION XI. Toxicological Information

No Data Available

## SECTION XII. Ecological Information

No Data Available

## SECTION XIII. Disposal Considerations

To the best of our knowledge this product does not meet the definition of a hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

## SECTION XIV. Transportation Information

United States Department of Transportation (DOT)

DOT Proper Shipping Name: Not Regulated

In our opinion the information provided herein may be used to transport this product in compliance with Canadian Transportation of Dangerous Goods.

## SECTION XV. Regulatory Information

## Federal

## Toxic Substances Control Act (TSCA)

## Section 8(b) - Inventory Status

All components of this product are registered under the regulations of the Toxic Substances Control Act.

## SARA Title III.

Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III. of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372

## State Regulations

California Proposition 65: Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

This product does not contain known levels of any chemical known to the State of California to cause cancer or cause reproductive damage.

## WHMIS Identification/Other International Regulations

Not regulated

## SECTION XVI. Additional Information

## HMIS Rating

Health-0

Flammability-0

Reactivity-0

See Section VIII: Exposure Controls/Personal Protection for personal protective equipment recommendations.

The information and recommendations contained herein are believed to be accurate. Because some of the information is derived from information provided to Glue Dots® International from its suppliers, Glue Dots® International makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Glue Dots® International assumes no responsibility from use or reliance thereon. It is the responsibility of the user of Glue Dots® International products to comply with all applicable federal, state and local laws and regulations.

# Safety Data Sheet (SDS)

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

## Section 1: Identification of the Substance/Mixture and the Company/Undertaking

**Product Name: Skimcrete CP    Product Code: Skim CP**

Dependable, LLC.  
1127 Linda St.  
Rocky River, OH 44116  
USA

Email:  
info@dependable.us  
Phone:  
440-333-1123



**Chemtrec: 1- 800-424-6400**

**Chemtrec Global: 1-703-527-3887**

Product Use: Concrete Patch

## Section 2: Hazard(s) Identification

### GHS Ratings:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1B	Presumed, Based on experimental animals

### GHS Hazards

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H350	May cause cancer
H360	May damage fertility or the unborn child

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment, see supplemental first aid information.

P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

**Signal Word: Danger**



### Section 3: Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Quartz	14808-60-7	60.00% - 70.00%
Calcium oxide	1305-78-8	5.00% - 10.00%
Portland cement	65997-15-1	1.00% - 5.00%

### Section 4: First Aid Measures

#### 4.1 Description of First Aid Measures

**After Inhalation:** Supply fresh air. If required, provide artificial respiration by qualified medical personnel. Keep patient warm. Consult doctor if symptoms persist.

**After Eye Contact:** Remove contact lens if worn. Rinse opened eye for 20 to 30 minutes under running water. If symptoms persist, consult a doctor.

**After Skin Contact:** Remove all contaminated clothing. Immediately wash affected skin with lukewarm water and soap, rinse thoroughly (20 min.). If skin irritation continues, consult a doctor.

**After Swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting. Call for medical help immediately.

**Notes to Physician:** Treat symptomatically

### Section 5: Firefighting Measures

Flash Point: N/A

LEL:

UEL:

**5.1 Flammable Limits:** Not flammable under normal conditions. Contact with water may cause hydration, and formation of caustic alkaline material.

#### **5.2 Extinguishing Media**

Dry Chemical

Alcohol Resistant Foam

Carbon dioxide

Do not use water

#### **5.3 Special Hazards Arising from the Substance of Mixture**

Formation of toxic gases is possible during heating or in case of fire.

#### **5.4 Hazardous Combustion Products**

Carbon oxides

Sulphur Oxides

Calcium Oxide

Aldehydes

#### **5.5 Advice for Firefighters**

Wear self-contained respiratory protective device and other proper protective equipment.

#### **5.6 Fire Damage**

Dispose of fire debris and contaminated fire fighting media in accordance with official regulations

## **Section 6: Accidental Release Measures**

### **6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Avoid dust formation

Do not breathe dust

Avoid contact with skin, eyes and clothing

Remove all non-essential people from the affected area.

Ensure adequate ventilation

Wear protective equipment

**6.2 Environmental Precautions:** Do not allow to enter sewers/ surface or ground water. Prevent seepage into sewage system, workpits and cellars.

### **6.3 Methods and Materials for Containment and Cleaning Up:**

Ensure adequate ventilation.

Pick up and arrange disposal without creating dust.

Dispose of the collected material according to regulations.

### **6.4 Reference to Other Sections**

For personal protection see Section 8

For disposal information see Section 13.

## **Section 7: Handling and Storage**

### **7.1 Precautions for Safe Handling**

Avoid formation of respirable particles

Do not breath vapours/dust

Do not get in eyes, on skin, or on clothing

Ensure good ventilation/exhaustions at the workplace

Make sure that all applicable workplace limits are observed.

## 7.2 Conditions for Safe Storage, Including any Incompatibilities

Store in cool, dry conditions in well sealed receptacles

Keep receptacle tightly sealed. Store in dry conditions.

Protect from humidity and water

Storage temperature 10 - 50 °C

Do not store together with oxidizing and acidic materials.

**Requirements to be Met by Storerooms and Receptacles:** Observe all local and national regulations for storage of water polluting products.

## 7.3 Specific End Use(s)

No further relevant information available.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Ingredients with limit values that require monitoring at the workplace:**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Quartz 14808-60-7	Not Established	0.025 mg/m <sup>3</sup> TWA (respirable fraction)	NIOSH: 0.05 mg/m <sup>3</sup> TWA (respirable dust)
Calcium oxide 1305-78-8	5 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA	NIOSH: 2 mg/m <sup>3</sup> TWA
Portland cement 65997-15-1	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	1 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)

**Additional Information:** The lists that were valid during the creation were used as a basis.

### 8.2 General Protective and Hygienic Measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working

Keep away foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin

### 8.3 Personal Protective Equipment:

Eye Protection: Safety glasses with side shields, goggles preferred.

Respiratory Protection: Use suitable respirator protective device in case of insufficient ventilation, required if TLV exceeded.. Use suitable respiratory protective device when dust and fumes is formed. NIOSH/MSHA respirator is advised.

Protection of Hands: Protective gloves: to avoid skin problems, the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Recommended glove material: Neoprene, butyl rubber gloves, note: the selection of the suitable gloves does not only depend on the material, but also on the further marks of quality and varies from manufacturer to manufacturer several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Protective gloves should be replaced at the first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin and Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. An eyewash and safety shower stations should be available in the work area.

## Section 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

<b>Appearance:</b> Tan Powder	<b>Odor:</b> None
<b>Odor threshold:</b> Not determined	<b>Specific Gravity:</b> 3.3-3.5
<b>pH:</b> 10-12	<b>Explosive/Flammable:</b> Not Explosive/Non-Flammable
<b>Autoignition:</b> Not Determined	<b>Boiling/Melting Pt:</b> Not Determined
<b>Solubility:</b> Dispersible	<b>Grams VOC less water:</b> N/A

## Section 10: Stability and Reactivity

STABLE

### 10.1 Reactivity:

Stable under recommended storage conditions. Interaction with water may cause hydration and formation of alkaline material. No decomposition if stored and applied as directed.

### 10.2 Chemical Stability:

No decomposition if stored and applied as directed.

### 10.3 Possibility of Hazardous Reactions:

None known

Hazardous polymerization will not occur.

## Section 11: Toxicological Information

### Mixture Toxicity

Oral Toxicity LD50: 668mg/kg

### Component Toxicity

### 11.1 Information on Toxicological Effects

#### Routes of Entry:

No data available

#### Target Organs:

Eyes      Skin      Respiratory System

#### Effects of Overexposure

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

CAS Number  
14808-60-7

Description  
Quartz

% Weight  
60 to  
70%

Carcinogen Rating  
Quartz: NIOSH: potential  
occupational carcinogen  
IARC: Human carcinogen  
OSHA: listed

## Section 12: Ecological Information

### 12.1 Persistence and Degradability

**Product:** No further relevant information available

### 12.2 Bioaccumulative Potential

**Product:** No further relevant information available

### 12.3 Mobility in Soil

**Product:** Distribution among environmental compartments: No further relevant information available.

### Additional Ecological Information:

German Hazard Water Class NWG

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.4 Results of PBT and vPvB Assessment:

Assessment: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

### 12.5 Other Adverse Effects

**Product:** No further relevant information available

### 12.6 Toxicity

#### Component Ecotoxicity

Calcium oxide

96 Hr LC50 Cyprinus carpio: 1070 mg/L [static]

## Section 13: Ecological Information

### 13.1 Waste Treatment Methods

**Product:** The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with the chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Send to a licensed waste management company.

**Contaminated Packaging:** Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

## Section 14: Transport Information

### 14.1 UN Number:

None - Not Regulated

Agency

Proper Shipping Name

UN Number

Packing Group

Hazard Class

No data available

## Section 15: Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or



**mixture**

Prop 65 - Chemicals Known to Cause Developmental Toxicity

- None

Prop 65 - Chemicals Known to Cause Cancer:

14808-60-7 Quartz

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- None

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- None

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- None

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- None

- None

TSCA (Toxic Substances Control Act)

- None

**Country**

USA

Canada

**Regulation**

Inventory - United States - Section 8(b) Inventory (TSCA)

DSL (Canadian Domestic Substance List)

**All Components Listed**

Yes

Yes

**EU Risk Phrases**

**Safety Phrase**

- None

**Section 16: Other Information**

We believe the information contained in this SDS is correct, however, because the material may be used under conditions over which we have no control, we give no warranty and assume no responsibility for any damage to person, property or business arising from such use. It is the responsibility of the user to ensure it is properly used. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual

relationship.

Reviewer Revision

Date Prepared: 10/13/2016

# #110 SOLVENT FREE EPOXY STAIR CAULK PART A

Complies with OSHA's Hazard Communication Standard CFR 1910-1200

## I. Chemical Product and Company Identification

### Material Identity

HMIS: H: 1/F: 0/R: 0/P: B

**Product Code and Name:** #110, Solvent Free Epoxy Stair Caulk Adhesive, Part A

**Product Class:** Adhesive

**DOT Class:** Not Regulated

**Manufactured for:** R.C. Musson Rubber Co.  
1320 E. Archwood Ave.  
Akron, OH 44306

**24 Hour Emergency:** Chemtree 1(800) 424-9300

**Date Prepared:** May 11, 2001

**Date Revised:** Original

## II. Composition/Information on Hazardous Ingredients

<u>Component</u>	<u>OSHA PEL</u>	<u>ACHIH TLV</u>	<u>%</u>	<u>LD50/LC50</u>	<u>CAS Number</u>
Epichlorohydrin Bisphenol A Resin	NE	NE	40-45	>5000 MG/KG	25089-99-8
Epichlorohydrin Polyglycol Resin	NE	NE	10-15	>2000 MG/KG	41638-13-5

## III. Physical Data

**Vapor Density (air=1):** NA

**Density:** 1.45

**Solubility in Water:** None

**Evaporation Rate (butyl acetate=1):** None

**% Solids:** 97%

**Boiling Point:** NA

**Vapor Pressure:** NA

**Appearance and Odor:** Off white medium paste, mild epoxy resin odor

**V.O.C:** < 30G/L max

## IV. Fire and Explosion Hazards

**Flash Point: (Method Used):** >250°F (T.O.C)

**Flammability Classification:** OSHA: None

**Extinguishing Media:** Carbon Dioxide, Dry Chemical or Foam

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus

**Unusual Fire and Explosion Hazards:** None

**Flammable Limits:** NA

**DOT:** None

## V. Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** In reaction with many curing agents, considerable heat is released

**Incompatibility (Materials to Avoid):** None known

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide, aldehydes and acids from incomplete combustion

**Hazardous Polymerization:** Will not occur

## VI. Health Hazard Data

**Effect of Overexposure:** Chronic: Prolonged or repeated skin exposure can cause mild skin irritation.

Acute: Prolonged or repeated skin exposure can cause mild skin irritation. Mildly irritating to the eyes.

**Emergency and First Aid Procedures:** Eyes: Flush with water for fifteen minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water or waterless skin cleanser followed by soap and water. Get medical help if irritation persists.

Ingestion: Seek medical attention.

Inhalation: Remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention.

## VII. Precaution for Safe Handling and Use

**Steps to take in case material is spilled or released:** Soak up with sand or clay. Place in non-leaking container.

**Waste disposal method:** Dispose of according to Federal, State and Local regulations.

**Handling and storage precautions:** Keep container tightly closed. Store in a cool dry place. Wash with soap and water before eating, drinking, smoking or using the toilet facilities. Launder contaminated clothing before reuse.

**Transportation Data:** See Section I.

**Other Precautions:** Keep out of reach of children!

## VIII. Control Measures

### **Respiratory Protection:**

Not usually required. Use respiratory protection if vapor levels are at or above TLV levels. Use NIOSH approved respirator.

### **Ventilation:**

Good General/Local ventilation to control vapor levels below TLV.

**Protective gloves:** Chemical resistant gloves.  
**Eye protection:** Normal precautions.  
**Hygienic Practices:** Good general cleanliness and hygiene.

**Disclaimer:** This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was from test performed by agencies other than the manufacturer. The company cannot guarantee its accuracy. The Manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Sheet and the use of this product, whether used in combination with other products or singularly.

# #110 SOLVENT FREE EPOXY STAIR CAULK PART B

Complies with OSHA's Hazard Communication Standard CFR 1910-1200

## I. Chemical Product and Company Identification

### Material Identity

HMIS: H: 1/F: 0/R: 0/P: B

**Product Code and Name:** #110, Solvent Free Epoxy Stair Caulk Adhesive, Part B

**Product Class:** Adhesive

**DOT Class:** Not Regulated

**Manufactured for:** R.C. Musson Rubber Co.  
1320 E. Archwood Ave.  
Akron, OH 44306

**24 Hour Emergency:** Chemtree 1(800) 424-9300

**Date Prepared:** May 11, 2001

**Date Revised:** Original

## II. Composition/Information on Hazardous Ingredients

<u>Component</u>	<u>OSHA PEL</u>	<u>ACHIH TLV</u>	<u>%</u>	<u>LD50/LC50</u>	<u>CAS Number</u>
Polyamide Resin	NE	NE	62-67	>5000 MG/KG	68082-29-1

## III. Physical Data

**Vapor Density (air=1):** NA

**Boiling Point:** NA

**Density:** 1.36

**Vapor Pressure:** NA

**Solubility in Water:** None

**Appearance and Odor:** Amber soft paste, ammonia odor

**Evaporation Rate (butyl acetate=1):** NA

**V.O.C:** < 30G/L max

**% Solids:** 100%

## IV. Fire and Explosion Hazards

**Flash Point (Method Used):** >250°F (T.O.C)

**Flammable Limits:** NA

**Flammability Classification:** OSHA: None

**DOT:** None

**Extinguishing Media:** Carbon Dioxide, Dry Chemical or Foam

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus

**Unusual Fire and Explosion Hazards:** None

## V. Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** None known

**Incompatibility (Materials to Avoid):** None known

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide, Nitrogen oxides and unidentified organic compounds maybe formed during combustion

**Hazardous Polymerization:** Will not occur

## VI. Health Hazard Data

**Effect of Overexposure:** Chronic: Not known.

Acute: Inhalation: May cause irritation to respiratory tract.

Ingestion: May cause gastrointestinal distress or irritation.

Skin: Repeated or prolonged exposure can cause irritation and may cause sensitization and allergic reaction.

Eyes: Can cause irritation, redness and tearing.

**Emergency and First Aid Procedures:** Eyes: Flush with water for fifteen minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water or waterless skin cleanser followed by soap and water. Get medical help if irritation persists.

Ingestion: Seek medical attention.

Inhalation: Remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention.

## VII. Precaution for Safe Handling and Use

**Steps to take in case material is spilled or released:** Soak up with sand or clay. Place in non-leaking container.

**Waste disposal method:** Dispose of according to Federal, State and Local regulations.

**Handling and storage precautions:** Keep container tightly closed. Store in a cool dry place. Wash with soap and water before eating, drinking, smoking or using the toilet facilities. Launder contaminated clothing before reuse.

**Transportation Data:** See Section I.

**Other Precautions:** Keep out of reach of children!

## VIII. Control Measures

**Respiratory Protection:** Not usually required. Use respiratory protection if vapor levels are at or above TLV levels. Use NIOSH approved respirator.

**Ventilation:** Good General/Local ventilation.

**Protective gloves:** Chemical resistant gloves.

**Eye protection:** Normal precautions.

**Hygienic Practices:** Good general cleanliness and hygiene.

**Disclaimer:** This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was from test performed by agencies other than the manufacturer. The company cannot guarantee its accuracy. The Manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Sheet and the use of this product, whether used in combination with other products or singularly.

# MATERIAL SAFETY DATA

PRODUCT NAME: Spray Lock™ 9500 Adhesive System for VCT  
PRODUCT CODE: 9500

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:  
HEALTH: 1 REACTIVITY: 1 FLAMMABILITY: 0

## SECTION 1 - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: ROBERTS CONSOLIDATED INDUSTRIES, INC.  
ADDRESS: 2501 Lakeview Drive, Mexico, Mo 65265  
EMERGENCY PHONE: (800)424-9300 (Chemtrec)  
DATE REVISED: 03/01/06 Note: Product discontinued in 2006

INFORMATION PHONE: (905) 791-4444  
NAME OF PREPARER: Technical Dept.

## SECTION 11 - HAZARDOUS INGREDIENTS/SARA 111 INFORMATION

None per OSHA Regulation #29CFR1910.1200.  
None per SARA Extremely Hazardous Substance List. None per CERCLA Hazardous Substance List. None per SARA Toxic Chemical List.  
Volatile Organic Compounds (VOC): None

## SECTION 111 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: -15.7° F. % VOLATILES: 25%.  
VAPOR PRESSURE: 96 psia @ 77° F. SOLUBILITY IN WATER: 70 WT% @ 77° F.  
VAPOR DENSITY: Heavier than air. EVAPORATION RATE: N/A  
APPEARANCE & ODOR: White to clear. Mild and sweet. SPACIFIC GRAVITY: pH:

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Will not burn.  
FLAMMABLE LIMITS IN AIR, % BY VOLUME: LEL: N/A. UEL: N/A.  
EXTINGUISHING MEDIA: N/A.  
SPECIAL FIRE FIGHTING PROCEDURES: None.  
UNUSUAL FIRE & EXPLOSION HAZARDS: Cylinders may vent under fire conditions. Self-contained breathing apparatus (SCBA) may be required if cylinders rupture or release under fire conditions.

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: Stable. CONDITIONS TO AVOID: Open flames & high temperatures.  
INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible with alkali or alkaline earth metals.  
DECOMPOSITION: Decomposition ingredients are hazardous. This product can be decomposed by high temperatures (above 126°F) forming hydrofluoric acid & possibly carbonyl fluoride.  
POLYMERIZATION: Will not occur.

## SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, skin, eyes. INHALATION: Gross overexposure of concentrated propellant may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness, irregular heart beat, fainting, weakness, sometimes progressing to loss of consciousness and death. Suffocation, if air is displaced by vapors. SKIN: Immediate effects of overexposure to propellant may include: Frostbite, if liquid or escaping vapor contacts the skin. EYE CONTACT: "Frostbite-like" feel may occur if the liquid or escaping vapors contact the eyes.  
HEALTH HAZARDS: None known. CARCINOGENICITY: None. OSHA REGULATED? No IARC MONOGRAPHS? No  
FIRST AID PROCEDURES: INHALATION: If high concentrations of propellant are inhaled, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.  
SKIN CONTACT: In case of contact, immediately wash with soap & water.  
EYE CONTACT: Wash with water for 15 minutes and call physician.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

ACCIDENTAL RELEASE MEASURES: Ventilate area, especially low or enclosed places where heavy vapors might collect. Extinguish open flames. Clean up adhesive with soap and water. WASTE DISPOSAL METHOD: Dispose per local, state & federal regulations. STORAGE: Store in a clean, dry place. Do not heat above 126° F and avoid freezing.

## SECTION VIII - CONTROL MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Under normal use and handling conditions, no protective equipment should be required nor respiratory protection.  
EXPOSURE GUIDELINES: PEL: None established. TLV: None established. WEEL: 1000 ppm, 8 hr. TWA.

## SECTION IX - TRANSPORTATION

PROPER SHIPPING NAME: Consumer Commodity ORM-D. HAZARDOUS CLASS: 9. ID 8000. DOT/IMO/IATA: ORM-D. Packing Inst.: 910.  
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:  
HEALTH: 1 REACTIVITY: 1 FLAMMABILITY: 0

DISCLAIMER: The information accumulated herein is believed to be accurate, but is not warranted to be whether originating with the company or not. Each user should review and determine for themselves, the applicability of the information in the specific context of the intended use.

Manufactured by: INTERLOCK INDUSTRIES INC. for ROBERTS CONSOLIDATED INDUSTRIES INC.

**SECTION 1: Identification and Company Details**

**Product Name:** ST100 PSA  
**Product Code:** ST100

**Manufacturer/ Supplier:** Earthwerks®  
**Address:** 10850 Train Ct.  
Houston, Texas 77041-6208

**Emergency Phone:** (800) 275-7943  
**Product Information:** (800) 275-7943

**Recommended Use:** Adhesive

**SECTION 2: Hazard(s) Identification**

**Classification of the substance or mixture:** This product is not classified as hazardous under GHS criteria.

**SECTION 3: Composition / Information on Ingredients**

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8

**SECTION 4: First-Aid Measures**

**Inhalation:** Move victim to fresh air. Consult physician if necessary.  
**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Consult physician if necessary.  
**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Consult physician if necessary.  
**Ingestion:** Do not induce vomiting. Wash mouth with water. Consult physician.  
**Note to Physician:** **Eyes:** Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation. **Skin:** This compound can potentially sensitize skin. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. **Ingestion:** Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. **Respiratory:** Treatment is essentially symptomatic. Remove individual with symptoms from exposure and assist in breathing if necessary.

**SECTION 5: Fire-Fighting Measures**

**Extinguishing Media:** This product is not flammable. Use fire- extinguishing media appropriate for surrounding materials.  
**Hazardous Combustion Products:** No particular hazards known.  
**Protection of Firefighters:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.



## SECTION 6: Accidental Release Measures

**Personal Precautions:** Use protective gloves, goggles and suitable protective clothing.  
**Environmental Precautions:** Do not allow product to get into drains, soil, or surface water.  
**Methods of Clean-up:** Small spillages: Absorb with sand or other inert absorbent. Large spillages: Dam and absorb. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wear necessary protective equipment.

## SECTION 7: Handling and Storage

**Handling Precautions:** Provide good ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product.  
**Storage:** Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C/ 40°F and 86°F. Protect from freezing and direct sunlight.

## SECTION 8: Exposure Control / Personal Protection

**Exposure Guidelines:** Not determined  
**Engineering Controls:** Provide adequate ventilation.  
**Personal Protective Equipment:**  
**Skin Protection** - Permeation resistant gloves (butyl rubber, nitrile rubber, PVC or polyvinyl alcohol).  
**Eye/Face Protection** - Glasses with side shields, chemical splash goggles and/or face shield.

<u>Chemical Name / CAS No.</u>	<u>OSHA Exposure Limits</u>	<u>ACGIH Exposure Limits</u>	<u>Other Exposure Limits</u>
None			

## SECTION 9: Physical and Chemical Properties

**Appearance:** Off-white Paste  
**Vapor Density:** Not Determined  
**Odor:** Slight acrylic odor  
**Relative Density:** 1.05  
**Odor Threshold:** Not available  
**Solubility(ies):** Not available  
**pH:** 8.0  
**Partition Coefficient:** n-octanol/water; Not determined  
**Melting Point:** Not determined  
**Freezing Point:** Not determined  
**Auto-ignition Temperature:** Not determined  
**Flash Point:** Non- flammable > 204 C (400 F) Cleveland Closed Cup  
**Decomposition Temperature:** Not determined  
**Evaporation Rate:** Not determined  
**Viscosity:** Not determined  
**Flammability (Solid/Gas):** Not applicable  
**Upper/Lower Flammability:** Not determined  
**VOC Content:** 6 g/L  
**Vapor Pressure:** Not Determined  
**Boiling Point:** 100°C/ 212°F

## SECTION 10: Stability and Reactivity

**Chemical Stability:** Stable under normal temperature conditions and recommended use.  
**Conditions to Avoid:** Excessive heat, direct sunlight and/or frost.  
**Materials to Avoid:** Water, amines, strong bases, and alcohols.

## SECTION 11: Toxicological Information

### Acute toxicity:

Ingestion: Not determined  
Inhalation: Not determined  
Skin Contact: Not determined.

## SECTION 12: Ecological Information

**Mobility and Bioaccumulation Potential:** Not determined

**Degradation:** Not determined

**Aquatic Toxicity:** Not determined

**LC50 – 24 hour (Static):** Not determined

## SECTION 13: Disposal Considerations

**Disposal:** Dispose of waste and residues in accordance with local authority requirements. Incineration is the preferred method of disposal.

**Wastes or Residues:** Same as above.

## SECTION 14: Transport Information

**Road:** DOT Proper Shipping Name: **Non-Regulated**  
DOT Packing Group: N/A  
DOT Label: N/A  
UN Number: N/A

**Ocean:** Proper Shipping Name: **Non-Regulated**  
Sea – IMO/IMDG Class: N/A  
UN Number: N/A  
Label: N/A  
Packing Group: N/A  
Marine Pollutant: N/A  
EMS: N/A

**Air:** Proper Shipping Name: **Non-Regulated**  
Air – ICAO/IATA Class: N/A  
UN Number: N/A  
Label: N/A  
Sub Class: N/A  
Packing Group: N/A  
Pack Instr. Passenger: N/A  
Pack Instr. Cargo: N/A

**Status on Substance Lists:** The concentrations shown in this document are maximum levels (weight %) to be used for regulations.

**TSCA:** The components of this product are contained on the chemical substance inventory list

**IARC:** Not carcinogenic

**OSHA PEL's** None

**SECTION 15: Regulatory Information**

**Federal EPA:** Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

Requires notification of the national response center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% by Weight	RQ
None	None	None	None

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product at level which could require reporting under this statute are:

Chemical Name	CAS Number	% by Weight	RQ
None	None	None	None

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known- **None**

**NJ RTK**

-None

**Pennsylvania RTK**

-None

**SARA 302 Extremely Hazardous Substances**

- None

**Massachusetts RTK**

-None

**EPA Hazard Classifications:**

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDSs that are distributed for this material. Components present in this product at level which could require reporting under the statute are: **None**

**Canada DSL:** All components are on the DSL list or exempt.

**California Proposition 65:** Does not contain any listed chemical to the best of our knowledge.

**SECTION 16: Other Information**

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

**HMIS RATING: HEALTH-1, FLAMMABILITY-0, REACTIVITY-0, PERSONAL PROTECTION- B.**

The information herein is given in good faith, but no warranty expressed or implied is made. Earthwerks® urges users of this product to evaluate its suitability and compliance with local regulations as Earthwerks® cannot foresee the final use of the product, nor the final location of usage.

Date of issue: 11/20/15

Version	Revision Date:	MSDS Number:	Date of last issue: 05/28/2015
2.0	06/10/2015	F000000967	Date of first issue: 05/21/2015

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**SECTION 1. IDENTIFICATION**

Product name : STIX 2230

Product code : F000000967

**Manufacturer or supplier's details**

Company name of supplier : XL Brands, LLC

Address : 198 Nexus Drive  
Dalton GA 30721

Telephone : (800) 367-4583

Telefax : (800) 547-0098

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

None known.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

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#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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Use NIOSH approved respiratory protection.

## Hand protection

Material : Impervious gloves

## Eye protection

: Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

## Skin and body protection

: Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

## Protective measures

: Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

: Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : blue

Odour : mild, characteristic

pH : 7.5 - 8.5

Melting point/range : No data available

Boiling point/boiling range : 212 °F

Flash point : > 212 °F

Vapour pressure : No data available

Density : 950 - 1,150 kg/m<sup>3</sup>

Solubility(ies)

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Water solubility	:	insoluble
Solubility in other solvents	:	Not applicable
Partition coefficient: n-octanol/water	:	No data available
Explosive properties	:	Not applicable

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Protect from frost.
Incompatible materials	:	Oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.

**Skin corrosion/irritation****Product:**

Remarks: This information is not available.

**Serious eye damage/eye irritation****Product:**

Remarks: This information is not available.

**Respiratory or skin sensitisation****Product:**



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Remarks: This information is not available.

### Carcinogenicity

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other :  
aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

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Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

# SAFETY DATA SHEET

## STIX 2230



Version  
2.0

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06/10/2015

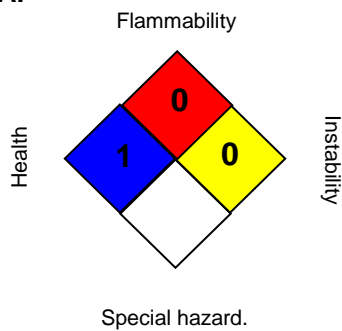
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

Version 2.2      Revision Date: 07/22/2015      MSDS Number: F000001332      Date of last issue: 05/29/2015  
Date of first issue: 05/20/2015

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**SECTION 1. IDENTIFICATION**

Product name : STIX ESSENTIAL RES.

Product code : F000001332

**Manufacturer or supplier's details**

Company name of supplier : XL Brands, LLC

Address : 198 Nexus Drive  
Dalton GA 30721

Telephone : (800) 367-4583

Telefax : (800) 547-0098

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

: Compressed gas

**GHS Label element**

Hazard pictograms :



Signal word : Warning

Hazard statements : H229 Pressurized container: May burst if heated.

Precautionary statements : P412 Do not expose to temperatures exceeding 50 °C/ 122 °F.  
P235 + P410 Keep cool. Protect from sunlight.  
P103 Read label before use.  
P102 Keep out of reach of children.

**Other hazards**

None known.

Version	Revision Date:	MSDS Number:	Date of last issue: 05/29/2015
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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

- |   |   |   |
|---|---|---|
| If inhaled  | : | Move to fresh air in case of accidental inhalation of vapours.<br>Oxygen or artificial respiration if needed.<br>Call a physician or poison control centre immediately.                               |
| In case of skin contact                                     | : | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.<br>If symptoms persist, call a physician.   |
| In case of eye contact                                      | : | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Keep eye wide open while rinsing.<br>Seek medical advice. |
| If swallowed  | : | Do not induce vomiting without medical advice.<br>If conscious, drink plenty of water.<br>Never give anything by mouth to an unconscious person.  |
| Most important symptoms and effects, both acute and delayed | : | None known.   |

**SECTION 5. FIREFIGHTING MEASURES**

- |                                       |   |  |
|---------------------------------------|---|--|
| Suitable extinguishing media          | : | Dry powder<br>Foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Water mist  |
| Specific hazards during fire-fighting | : | Burning produces irritant fumes.<br>Exposure to decomposition products may be a hazard to health.<br>Cool closed containers exposed to fire with water spray.<br>Do not allow run-off from fire fighting to enter drains or water courses.   |
| Specific extinguishing methods        | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use a water spray to cool fully closed containers.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

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Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation. Material can create slippery conditions. Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow contact with soil, surface or ground water. Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Pick up and transfer to properly labelled containers. Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. Keep away from heat and sources of ignition.

Advice on safe handling : Wear personal protective equipment. Handle with care. Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking. Keep in properly labelled containers. Observe label precautions. Keep containers tightly closed in a dry, cool and well-ventilated place. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Materials to avoid : Do not freeze. Keep away from food and drink. Keep away from tobacco products.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

**Respiratory protection** : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.

**Hand protection**  
**Material** : Impervious gloves

**Eye protection** : Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

**Skin and body protection** : Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

**Protective measures** : Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures** : Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : aerosol

**Colour** : white

# SAFETY DATA SHEET

## STIX ESSENTIAL RES.

**XLBrands®**

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Odour	: characteristic
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Vapour pressure	: 18.65 mmHg (70 °F)
Density	: 970 - 1,030 kg/m <sup>3</sup>
Solubility(ies)	
Water solubility	: dispersible
Solubility in other solvents	: Not applicable
Partition coefficient: n-octanol/water	: No data available
Explosive properties	: Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Protect from frost, heat and sunlight.
Incompatible materials	: No data available
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: LC50 (Rat): 1,500 g/m <sup>3</sup> Exposure time: 4.0 h

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The value is given in analogy to the following substances:

#### Skin corrosion/irritation

##### Product:

Remarks: May irritate skin.  
May cause skin irritation and/or dermatitis.

#### Serious eye damage/eye irritation

##### Product:

Remarks: May irritate eyes.

#### Carcinogenicity

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

##### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to fish	:	Remarks: May cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: May cause long-term adverse effects in the aquatic environment.
Toxicity to algae	:	Remarks: May cause long-term adverse effects in the aquatic environment.

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

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**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated packaging	: Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA-DGR**

UN/ID No.	: UN 1950
Proper shipping name	: Aerosols, non-flammable (AEROSOLS, 2.2)
Class	: 2.2
Packing group	: Not assigned by regulation
Labels	: Non-flammable, non-toxic Gas
Packing instruction (cargo aircraft)	: 203
Packing instruction (passenger aircraft)	: 203

**IMDG-Code**

UN number	: UN 1950
Proper shipping name	: AEROSOLS
Class	: 2.2
Packing group	: Not assigned by regulation
Labels	: 2.2
EmS Code	: F-D, S-U
Marine pollutant	: no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

UN/ID/NA number	: UN 1950
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SAFETY DATA SHEET

**STIX ESSENTIAL RES.**

Version 2.2      Revision Date: 07/22/2015      MSDS Number: F000001332      Date of last issue: 05/29/2015  
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Proper shipping name : AEROSOLS  
 (AEROSOLS, 2.2)  
 Class : 2.2  
 Packing group : Not assigned by regulation  
 Labels : NON-FLAMMABLE GAS  
 ERG Code : 126  
 Marine pollutant : no

**SECTION 15. REGULATORY INFORMATION**

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

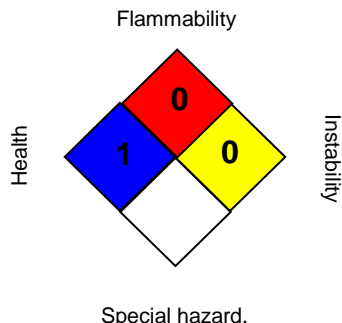
**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** : All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

Revision Date : 07/22/2015

# SAFETY DATA SHEET

## STIX ESSENTIAL RES.



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : TAJ Eco Bond LVT  
Product code : Not available

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Adhesive

**1.3. Details of the supplier of the safety data sheet**

TAJ Flooring, Inc.  
740 Church Road  
Elgin, IL 60123 - USA

T 847-690-9930

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1 (800) 424-9300

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**GHS-US classification**

Gases under pressure – Liquefied gas  
Carcinogenicity 2

**2.2. Label elements**

**GHS-US labelling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : Contains gas under pressure; may explode if heated. Suspected of causing cancer.  
Precautionary statements (GHS-US) : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Protect from sunlight. Store in a well-ventilated place. Dispose of contents and container in accordance with all local, regional, national and international regulations.

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

None

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	GHS-US classification
1,1-Difluoroethane	(CAS No) 75-37-6	10 - 30	Flam. Gas 1 Liquefied gas
Vinyl acetate	(CAS No) 108-05-4	0.1 - 1	Flam. Liq. 2 Acute Tox. 4 (Inhalation) Carc. 2 STOT SE 3

\* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

# TAJ Eco Bond LVT

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory tract irritation.
- Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/injuries after ingestion : Not a normal route of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

- Firefighting instructions : Cool closed containers exposed to fire with water.
- Protection during firefighting : Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

#### 6.2. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

#### 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Use only in well-ventilated areas. When using do not eat, drink or smoke. Pressurized container: Do not pierce or burn, even after use.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep locked up and out of reach of children. Store away from direct sunlight or other heat sources. Do not store at temperatures above 49 °C / 120 °F. Keep from freezing. Store in a well-ventilated place.

#### 7.3. Specific end use(s)

Not available.

# TAJ Eco Bond LVT

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

1,1-Difluoroethane (75-37-6)		
USA ACGIH	ACGIH TWA (ppm)	Not applicable
USA ACGIH	ACGIH STEL (ppm)	Not applicable
Vinyl acetate (108-05-4)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm

#### 8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable gloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Gas/Pressurized Liquid.
Appearance	: Clear.
Colour	: White.
Odour	: Sweet.
Odour threshold	: No data available.
pH	: 5.5 - 7.5
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Self ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: > 1 (Air = 1)
Relative density	: 1.03
Solubility	: No data available.
Log Pow	: No data available.
Log Kow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

#### 9.2. Other information

No additional information available

# TAJ Eco Bond LVT

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials.

#### 10.5. Incompatible materials

Oxidizers. Nitrates. Chlorine bleach.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

TAJ Eco Bond LVT	
LD50 oral rat	Not available.
LD50 dermal rabbit	Not available.
LC50 inhalation rat	Not available.

1,1-Difluoroethane (75-37-6)	
LC50 inhalation mouse	977 g/m <sup>3</sup> /2h

Vinyl acetate (108-05-4)	
LD50 oral rat	2920 mg/kg
LD50 dermal rabbit	2320 mg/kg
LC50 inhalation rat	11.4 mg/l/4h

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Suspected of causing cancer.

Vinyl acetate (108-05-4)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion : Not a normal route of exposure.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### 12.2. Persistence and degradability

TAJ Eco Bond LVT	
Persistence and degradability	Not established.



# TAJ Eco Bond LVT

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### 12.3. Bioaccumulative potential

#### TAJ Eco Bond LVT

Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on ozone layer : No additional information available  
Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Pressurized container: Do not pierce or burn, even after use.

## SECTION 14: Transport information

In accordance with DOT

### 14.1. UN number

UN-No.(DOT) : UN1950

### 14.2. UN proper shipping name

DOT Proper Shipping Name : Aerosols, non-flammable  
Department of Transportation (DOT) Hazard Classes : 2.2  
Hazard labels (DOT) :



### 14.3. Additional information

Other information : No supplementary information available.  
Special transport precautions : Do not handle until all safety precautions have been read and understood.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### Vinyl acetate (108-05-4)

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 302 Threshold Planning Quantity (TPQ)	1000
--	------

SARA Section 313 - Emission Reporting	0.1 %
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### 15.2. US State regulations

#### TAJ Eco Bond LVT

State or local regulations	This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
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## SECTION 16: Other information

Indication of changes : None.  
Date of issue : 08/26/2016  
Other information : None.

*Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*

31-SDS-TAJ-EB-LVT  
DATE: 08/26/2016  
REV: A

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing Date 03/20/2016

Revision Number 1

Revision Date 03/20/2016

**1 Identification**

- **Product identifier**
- **Trade name:** *Tandus C-77 Seam Cleaner*
- **Relevant identified uses of the substance or mixture.** *Cleaner*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Royal Adhesives & Sealants, LLC*  
*863 South East Main Street*  
*Simpsonville, SC 29681*  
*(864) 967-7691*
- **Supplier:**  
*Tandus Centiva*  
*A Tarkett Company*
- **Information department:** *Environment protection department.*
- **Emergency telephone number:**  
*ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.*  
*Outside USA and Canada: +1 703-527-3887 (collect calls accepted)*

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS02 Flame

*Flam. Liq. 2 H225 Highly flammable liquid and vapor.*

- **Label elements**
- **GHS label elements** *The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms**



GHS02

- **Signal word** *Danger*
- **Hazard statements**  
*Highly flammable liquid and vapor.*
- **Precautionary statements**  
*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*  
*Use explosion-proof electrical/ventilating/lighting/equipment.*  
*Wear protective gloves / eye protection / face protection.*  
*Ground/bond container and receiving equipment.*  
*Keep container tightly closed.*  
*Use only non-sparking tools.*  
*Take precautionary measures against static discharge.*  
*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*  
*In case of fire: Use for extinction: CO2, powder or water spray.*

(Contd. on page 2)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/20/2016

Revision Number 1

Revision Date 03/20/2016

**Trade name: Tandus C-77 Seam Cleaner**

(Contd. of page 1)

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	3
PHYSICAL HAZARD	0

Health = 1

Fire = 3

Physical Hazard = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Hazardous components:**

78-93-3	methyl ethyl ketone	50-100%
67-64-1	acetone	25-50%

## 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

· **After swallowing:** Immediately call a doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 3)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 03/20/2016

Revision Number 1

Revision Date 03/20/2016

**Trade name: Tandus C-77 Seam Cleaner**

(Contd. of page 2)

- **Advice for firefighters**  
Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- **Protective equipment:** Protective clothing and respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Avoid prolonged or repeated contact with skin.  
Avoid contact with eyes.  
Wash thoroughly after handling.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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Trade name: Tandus C-77 Seam Cleaner

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**78-93-3 methyl ethyl ketone**

PEL Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 885 mg/m<sup>3</sup>, 300 ppm

Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

TLV Short-term value: 885 mg/m<sup>3</sup>, 300 ppm

Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

BEI

**67-64-1 acetone**

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

TLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm

Long-term value: 594 mg/m<sup>3</sup>, 250 ppm

BEI

- **Ingredients with biological limit values:**

**78-93-3 methyl ethyl ketone**

BEI 2 mg/L

Medium: urine

Time: end of shift

Parameter: MEK

**67-64-1 acetone**

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment (see listings below)**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Trade name: Tandus C-77 Seam Cleaner

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- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety glasses with side shields.



Tightly sealed goggles

- **Body protection:**

Protective work clothing

Apron

Emergency showers and eye wash stations should be available.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Color: Clear

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point: Undetermined.

Boiling point: 56 °C (133 °F)

- **Flash point:** -4 °C (25 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 465 °C (869 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Flammable limits:**

Lower: 1.8 Vol %

Upper: 13.0 Vol %

- **Vapor pressure at 20 °C (68 °F):** 233 hPa (175 mm Hg)

- **Specific gravity at 20 °C (68 °F):** 0.79 g/cm<sup>3</sup> (6.593 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

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Trade name: Tandus C-77 Seam Cleaner

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- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 100.0 %
  - VOC (Per EPA 24)** Not Available GMS/L
- **Other information**
  - Grams VOC/Liter 400.0
  - Grams VOC/Liter [less water. less exempts] 799.0

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
  - Strong oxidizers, acids, and bases.
  - Reacts with alkali and metals.
  - Reacts with halogenated compounds.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

78-93-3 methyl ethyl ketone

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

- **Primary irritant effect:**
  - on the skin:** Irritant to skin and mucous membranes.
  - on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.
  - The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.


### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |   |  |
|---|--|
| · <b>UN-Number</b>  | UN1993   |
| · <b>DOT, ADR, IMDG, IATA</b>   |  |
| · <b>UN proper shipping name</b>  | FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))      |
| · <b>DOT, IMDG, IATA</b>  | 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)) |
| · <b>ADR</b>  |  |
| · <b>Transport hazard class(es)</b>   |  |
| · <b>DOT</b>  |  |
|  |  |
| · <b>Class</b>  | 3 Flammable liquids  |

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· <b>Label</b>	3
· <b>ADR, IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	II
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E, <u>S-E</u>
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN1993, FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, II

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

· **New Jersey Right-to-Know List:**

None of the ingredients is listed.

· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

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**· Pennsylvania Right-to-Know List:**

None of the ingredients is listed.

**· Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

78-93-3	methyl ethyl ketone	I
67-64-1	acetone	I

**· TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
---------	---------	----

**· MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· National regulations:**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:** Environment protection department.

· **Creation Date:** 02/28/2012

· **Date of preparation / last revision** 03/20/2016 / -

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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*BEI: Biological Exposure Limit*  
*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

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## Safety Data Sheet acc. to OSHA HCS

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### 1 Identification

- **Product identifier**
- **Trade name:** Tandus Centiva #54 Seam Weld Compound
- **Relevant identified uses of the substance or mixture.** Adhesive
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Tandus Centiva Technologies  
PO Box 1447  
1000 Vista Drive  
Dalton, GA 30721  
Information 800-241-4902
- **Information department:** Tandus Centiva Technologies
- **Emergency telephone number:**  
ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225

Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319

Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**  
Highly flammable liquid and vapor.  
Causes serious eye irritation.  
May cause respiratory irritation. May cause drowsiness or dizziness.
- **Precautionary statements**  
If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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Trade name: Tandus Centiva #54 Seam Weld

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Use explosion-proof electrical/ventilating/lighting/equipment.  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wear protective gloves / eye protection / face protection.  
 Wear eye protection / face protection.  
 Ground/bond container and receiving equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a poison center/doctor if you feel unwell.  
 If eye irritation persists: Get medical advice/attention.  
 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store in a well-ventilated place. Keep cool.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	3	Fire = 3
PHYSICAL HAZARD	0	Physical Hazard = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture: consisting of the following components.

- **Hazardous components:**

78-93-3	methyl ethyl ketone	50-100%
109-99-9	tetrahydrofuran	25-50%
108-94-1	cyclohexanone	2.5-10%

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### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.  
Call a doctor immediately.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
- **After swallowing:**  
Immediately call a doctor.  
Seek medical treatment.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water and water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.

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- Keep away from heat and direct sunlight.
- Avoid prolonged or repeated contact with skin.
- Avoid contact with eyes.
- Wash thoroughly after handling.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
  - **Information about storage in one common storage facility:** Store away from oxidizing agents.
  - **Further information about storage conditions:**
    - Keep receptacle tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 78-93-3 methyl ethyl ketone

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
BEI	

#### 109-99-9 tetrahydrofuran

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 735 mg/m <sup>3</sup> , 250 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 295 mg/m <sup>3</sup> , 100 ppm Long-term value: 147 mg/m <sup>3</sup> , 50 ppm
Skin	

#### 108-94-1 cyclohexanone

PEL	Long-term value: 200 mg/m <sup>3</sup> , 50 ppm
REL	Long-term value: 100 mg/m <sup>3</sup> , 25 ppm Skin
TLV	Long-term value: 50 mg/m <sup>3</sup> , 20 ppm Skin

- **Ingredients with biological limit values:**

#### 78-93-3 methyl ethyl ketone

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Trade name: Tandus Centiva #54 Seam Weld

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BEI 2 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: MEK

**109-99-9 tetrahydrofuran**

BEI 2 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Tetrahydrofuran

**108-94-1 cyclohexanone**

BEI 80 mg/L  
 Medium: urine  
 Time: end of shift at end of workweek  
 Parameter: 1,2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)

8 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment (see listings below)**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**
  - Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
  - Safety glasses with side shields.



Tightly sealed goggles

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- **Body protection:**  
Protective work clothing  
Apron  
Emergency showers and eye wash stations should be available.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - **Form:** Liquid
  - **Color:** Clear
- **Odor:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - **Melting point:** Undetermined.
  - **Boiling point:** 67 °C (153 °F)
- **Flash point:** -14 °C (7 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 230 °C (446 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** May form explosive peroxides.
- **Flammable limits:**
  - **Lower:** 1.3 Vol %
  - **Upper:** 12.0 Vol %
- **Vapor pressure at 20 °C (68 °F):** 200 hPa (150 mm Hg)
- **Specific gravity at 20 °C (68 °F):** 0.94 g/cm<sup>3</sup> (7.844 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
  - **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.
- **Solvent content:**
  - **Organic solvents:** 100.0 %
  - **VOC (Per EPA 24)** Not Available GMS/L
- **Solids content:** not available

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Trade name: Tandus Centiva #54 Seam Weld

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· **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
  - Strong oxidizers, acids, and bases.
  - Reacts with alkali and metals.
  - Reacts with halogenated compounds.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

78-93-3 methyl ethyl ketone

Oral LD50 3300 mg/kg (rat)

Dermal LD50 5000 mg/kg (rabbit)

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.
  - The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

108-94-1 cyclohexanone

3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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Trade name: Tandus Centiva #54 Seam Weld

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.  
Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1133
- **UN proper shipping name**
- **DOT, IMDG, IATA** ADHESIVES
- **ADR** 1133 ADHESIVES
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **ADR, IMDG**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **IATA**
- 
- **Class** 3 Flammable liquids

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Trade name: Tandus Centiva #54 Seam Weld

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· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E,S-E
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN1133, ADHESIVES, 3, II

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

78-93-3 methyl ethyl ketone

1

· **TLV (Threshold Limit Value established by ACGIH)**

109-99-9 tetrahydrofuran

A3

108-94-1 cyclohexanone

A3

· **MAK (German Maximum Workplace Concentration)**

109-99-9 tetrahydrofuran

4

108-94-1 cyclohexanone

3B

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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Trade name: Tandus Centiva #54 Seam Weld

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- **National regulations:**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*Although the information and recommendations set forth in the SDS [SDS] are presented in good faith and are believed to be correct as of the date of this SDS [SDS], the supplier/manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will the supplier/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS [SDS].*

- **Department issuing SDS:** Environment protection department.
- **Creation Date:** 02/28/2012
- **Date of preparation / last revision** 05/22/2015
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMS: Hazardous Materials Identification System (USA)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - Flam. Liq. 2: Flammable liquids, Hazard Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
  - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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## Safety Data Sheet acc. to OSHA HCS

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### 1 Identification

- **Product identifier**
- **Trade name:** Tandus Centiva #77 Adhesive Remover
- **Relevant identified uses of the substance or mixture.** Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Tandus Centiva Technologies  
PO Box 1447  
1000 Vista Drive  
Dalton, GA 30721  
Information 800-241-4902
- **Information department:** Tandus Centiva Technologies
- **Emergency telephone number:**  
ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

- **Hazard statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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**Trade name:** Tandus Centiva #77 Adhesive Remover

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Use explosion-proof electrical/ventilating/lighting/equipment.  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wear protective gloves / eye protection / face protection.  
 Wear eye protection / face protection.  
 Ground/bond container and receiving equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a poison center/doctor if you feel unwell.  
 If eye irritation persists: Get medical advice/attention.  
 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store in a well-ventilated place. Keep cool.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



• **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	3	Fire = 3
PHYSICAL HAZARD	0	Physical Hazard = 0

• **Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

### 3 Composition/information on ingredients

• **Chemical characterization: Mixtures**

• **Description:** Mixture: consisting of the following components.

• **Hazardous components:**

78-93-3	methyl ethyl ketone	50-100%
67-64-1	acetone	25-50%

### 4 First-aid measures

• **Description of first aid measures**

• **After inhalation:**

Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

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**Trade name:** Tandus Centiva #77 Adhesive Remover

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- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water and water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Avoid prolonged or repeated contact with skin.  
Avoid contact with eyes.  
Wash thoroughly after handling.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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Trade name: Tandus Centiva #77 Adhesive Remover

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

#### · **Components with limit values that require monitoring at the workplace:**

##### 78-93-3 methyl ethyl ketone

PEL Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 885 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

TLV Short-term value: 885 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 590 mg/m<sup>3</sup>, 200 ppm  
BEI

##### 67-64-1 acetone

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

TLV Short-term value: (1782) NIC-1187 mg/m<sup>3</sup>, (750) NIC-500 ppm  
Long-term value: (1188) NIC-594 mg/m<sup>3</sup>, (500) NIC-250 ppm  
BEI

#### · **Ingredients with biological limit values:**

##### 78-93-3 methyl ethyl ketone

BEI 2 mg/L  
Medium: urine  
Time: end of shift  
Parameter: MEK

##### 67-64-1 acetone

BEI 50 mg/L  
Medium: urine  
Time: end of shift  
Parameter: Acetone (nonspecific)

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
- **Personal protective equipment (see listings below)**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

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Trade name: Tandus Centiva #77 Adhesive Remover

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- **Breathing equipment:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Safety glasses with side shields.



Tightly sealed goggles

- **Body protection:**

Protective work clothing

Apron

Emergency showers and eye wash stations should be available.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point:</b>	Undetermined.
<b>Boiling point:</b>	56 °C (133 °F)

- **Flash point:** -4 °C (25 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 465 °C (869 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

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Trade name: Tandus Centiva #77 Adhesive Remover

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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Flammable limits:</b>	
<b>Lower:</b>	1.8 Vol %
<b>Upper:</b>	13.0 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	233 hPa (175 mm Hg)
· <b>Specific gravity at 20 °C (68 °F):</b>	0.79 g/cm <sup>3</sup> (6.593 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	100.0 %
<b>VOC (Per EPA 24)</b>	Not Available GMS/L
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
  - Strong oxidizers, acids, and bases.
  - Reacts with alkali and metals.
  - Reacts with halogenated compounds.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

78-93-3 methyl ethyl ketone

Oral LD50 3300 mg/kg (rat)

Dermal LD50 5000 mg/kg (rabbit)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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Trade name: Tandus Centiva #77 Adhesive Remover

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- **Additional toxicological information:**

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA**

UN1993

- **UN proper shipping name**

- **DOT, IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

- **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

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Trade name: Tandus Centiva #77 Adhesive Remover

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· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **ADR, IMDG, IATA**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**

· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 33

· **EMS Number:** F-E,S-E

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** UN1993, FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, II

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

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Trade name: Tandus Centiva #77 Adhesive Remover

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- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

78-93-3	methyl ethyl ketone	I
67-64-1	acetone	I

- **TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
---------	---------	----

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **National regulations:**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*Although the information and recommendations set forth in the SDS [SDS] are presented in good faith and are believed to be correct as of the date of this SDS [SDS], the supplier/manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will the supplier/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS [SDS].*

- **Department issuing SDS:** Environment protection department.

- **Creation Date:** 02/28/2012

- **Date of preparation / last revision** 05/22/2015

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

USA

# Safety Data Sheet

## SECTION 1: Identification

Trade Name: Tandus Centiva C-56  
Product Class: Premium Floor Primer

## SECTION 2: Hazard Identification

### GHS Classification

Not a hazardous substance or mixture

### GHS Label Element

Not a hazardous substance or mixture

### Other Hazards

None known if used according to instruction. Irritation may occur when in contact with eyes and skin.

## SECTION 3: Composition/Information on Ingredients

Description: Synthetic Latex Polymer Dispersion, Trade Secret

## SECTION 4: First-Aid Measures

Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

## SECTION 5: Fire-fighting Measures

Flammability Classification: OSHA: None. DOT: None.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other gases that are common to thermal degradation of organic compounds.

Extinguishing Media: Water, CO<sub>2</sub>, Dry Chemical, Foam.  
Wear self-contained breathing gear when in confined area.  
Containers may burst in heat of fire. Material may splatter if temperature exceed 212°F. Use water to cool fire-exposed containers. Dry material can burn.

## SECTION 6: Accidental Release Measures

Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Residual product while still wet, can be cleaned up with warm soapy water. Do not flush unused contents or residue down drains. Contain spill, preventing it from entering sewer lines or waterways.

## SECTION 7: Handling and Storage

Store inside at a temperature of 65°- 85° F. Do not allow product to freeze. Shelf life is one year.

## SECTION 8: Exposure Controls/Personal Protection

Ventilation: Local ventilation.  
Protective Gloves: Recommended.  
Eye Protection: Safety glasses.  
Hygienic Practices: Wash with soap and water after exposure.  
Respiratory Protection: Not required with adequate ventilation.  
Other Protective Equipment: None.  
Work Site Environment: Initially there may be a potential adverse impact in indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate persons that (1) it will be necessary to establish and maintain adequate ventilation of the work area without causing the entry of contaminants to other parts of the building and (2) persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

# Tandus Centiva

A Tarkett Company



**Tandus Centiva C-56**  
**Premium Floor Primer**



**Tandus Centiva**  
**1000 Vista Drive**  
**Dalton, GA 30721**

**Information Telephone: 800-241-4902**  
**24 hour Emergency - Chemtrec: 800-424-9300**  
**International Emergency: Call (USA) 202-483-7616**

## SECTION 9: Physical and Chemical Properties

Boiling Point: 212°F  
Vapor Density: Same as water. Vapor Pressure: N/A  
Evaporation Rate: Same as water.  
Flammable Limits: Non-flammable. Flash Point: > 212° F  
Melting Point/Freezing Point: 32° F  
Appearance and Odor: White viscous liquid; low odor.  
Odor Threshold: N/A  
pH: 7.5 - 8.5  
Viscosity: N/A                      Decomposition Temperature: N/A  
Partition Coefficient: N/A. Auto Ignition Temperature: N/A  
Weight per Gallon: 10.5 lbs.  
Percent Volatile by Weight: 32-34% (as water)  
Solubility in Water: Not Soluble (dispersible)  
V.O.C. Content: <= 1.3 grams/liter; Compliant with SCAQMD Rule 1168 for carpet adhesives.

## Section 10: Stability and Reactivity

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.  
Hazardous Polymerization: Will not occur.

## SECTION 11: Toxicological Information

Not available

## SECTION 12: Ecological Information

Not available

## SECTION 13: Disposal Considerations

Dispose of in accordance with Federal, State and Local regulations.

## SECTION 14: Transport Information

D.O.T Hazard Class: Unregulated

## SECTION 15: Regulatory Information

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are in compliance with the inventory listing requirements of the U.S. TSCA Inventory. This product does not contain asbestos.

## SECTION 16: Other Information

Tandus Centiva believes the data set forth herein are accurate as of the date hereof. Tandus Centiva makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

## Tarkett 959 Vinyl Tile and Plank Adhesive

Version 2.0      Revision Date: 06/13/2015      MSDS Number: F000002536      Date of last issue: 05/29/2015  
Date of first issue: 05/29/2015

---

### SECTION 1. IDENTIFICATION

Product name : Tarkett 959 Vinyl Tile and Plank Adhesive  
Product code : F000002536

#### Manufacturer or supplier's details

Company name of supplier : Tarkett  
Address : 30000 Aurora Rd  
Solon, OH 44139  
Telephone : (800) 899-8916  
Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

Not a hazardous substance or mixture.

#### Other hazards

None known.

---

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Contains no hazardous ingredients according to GHS

---

### SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-



## Tarkett 959 Vinyl Tile and Plank Adhesive

Version 2.0	Revision Date: 06/13/2015	MSDS Number: F000002536	Date of last issue: 05/29/2015 Date of first issue: 05/29/2015
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diately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

## Tarkett 959 Vinyl Tile and Plank Adhesive

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Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## Tarkett 959 Vinyl Tile and Plank Adhesive

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Use NIOSH approved respiratory protection.

Hand protection  
Material

: Impervious gloves

Eye protection

: Safety glasses with side-shields  
Tightly fitting safety goggles  
Face-shield

Skin and body protection

: Chemical resistant apron  
Footwear protecting against chemicals  
Skin should be washed after contact.  
Change working clothes after each workshift.

Protective measures

: Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

: Do not smoke.  
Keep away from food and drink.  
Avoid contact with skin, eyes and clothing.  
Change working clothes after each workshift.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: white
Odour	: mild, characteristic
Odour Threshold	: No data available
pH	: 8.2
Melting point/range	: No data available
Boiling point/boiling range	: 212 °F
Flash point	: > 212 °F
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable

## Tarkett 959 Vinyl Tile and Plank Adhesive

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Vapour pressure : No data available

Density : 1,006 kg/m<sup>3</sup>

### Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : not determined

Partition coefficient: n-octanol/water : No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.

Incompatible materials : Oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### **Product:**

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

### Skin corrosion/irritation

#### **Product:**

Remarks: This information is not available.

### Serious eye damage/eye irritation

#### **Product:**

Remarks: This information is not available.

## Tarkett 959 Vinyl Tile and Plank Adhesive

Version	Revision Date:	MSDS Number:	Date of last issue: 05/29/2015
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### Respiratory or skin sensitisation

#### **Product:**

Remarks: This information is not available.

### Carcinogenicity

#### **IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### **Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.

## Tarkett 959 Vinyl Tile and Plank Adhesive

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Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

##### 49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA** All components of this product appear on the Inventory of Chemical Substances published by the U.S. Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

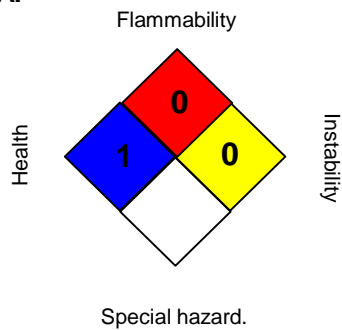
## Tarkett 959 Vinyl Tile and Plank Adhesive

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Date of first issue: 05/29/2015

### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/13/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

## Safety Data Sheet

### TARKETT JOHNSONSITE 950

Safety Data Sheet dated: 3/9/2015 - version 1

Date of first edition: 3/9/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: **TARKETT JOHNSONSITE 950**

### Other means of identification:

Trade code: 2698

### Recommended use of the chemical and restrictions on use

Recommended use: Flooring Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Tarkett USA Inc., 30000 Aurora Rd., Solon, OH 44139

1-800-899-8916

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Carc. 1A May cause cancer if inhaled.

### Label elements

#### Symbols:



Danger

Code	Description
H350.A	May cause cancer if inhaled.

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

### Additional classification information



HMIS Health: 1 = SLIGHT

HMIS Health - Is health hazard chronic?: Yes



HMIS Flammability: 0 = Not Combustible  
HMIS Reactivity: 0 = MINIMAL  
HMIS P.P.E.: Safety glasses, gloves  
NFPA Health: 1 = SLIGHT  
NFPA Flammability: 0 = Not Combustible  
NFPA Reactivity: 0 = MINIMAL  
NFPA Special Risk: N.A.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

N.A.

#### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity	Name	Ident. Numb.	Classification
15-30 %	Naphthenic oil	CAS:64742-52-5	Carc. 1B, H350
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

---

### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

N.A.

#### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

#### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand  
Wash with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State: Liquid  
Appearance and colour: Paste beige  
Odour: characteristic  
Odour threshold: N.A.  
pH: 9.00  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: >100 °C (212 °F)  
Flash point: >100 °C (212 °F)  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: N.A.  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

### Other information

Date 4/20/2015

Page n. 3 of 7

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Naphthenic oil	a) acute toxicity	LC50 Inhalation Rat = 2,18000mg/l 4h
		LD50 Oral Rat > 500,00000mg/kg
		LD50 Skin Rabbit > 2000,00000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand Group 1

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
15-30 %	Naphthenic oil	CAS: 64742-52-5	LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss> 5000mg/L 96h IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

---

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

**14. TRANSPORT INFORMATION****UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT Label(s): N/A

DOT Symbol: N/A

DOT Cargo Aircraft: N/A

DOT Passenger Aircraft: N/A

DOT Bulk: N/A

DOT Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subrisk: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subrisk: N/A

IMDG-Special Provisions: N/A

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Naphthenic oil	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
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#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Silica Sand

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## 16. OTHER INFORMATION

Date 4/20/2015

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Code	Description
H350	May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 3/9/2015 - version 1

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/02/2015

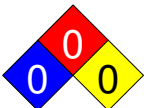
Version No. 2

Reviewed on 06/02/2015

## 1 Identification

- **Trade name:** Power Tape
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Article category**  
AC13 Plastic articles  
Article without release of chemical substances.
- **Application of the substance / the mixture** High-performance adhesive tape for skirting boards
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Manufacturer:  
Tarkett  
30000 Aurora Road  
Solon, Ohio 44139 USA  
Tel.: (800) 899-8916
  
- **Information department:**  
Department of Development & Quality assurance  
E-Mail: thomas.wigger@uzin-utz.com
- **Emergency telephone number:**  
For Chemical Emergency Spill Leak Fire Exposure or Accident  
Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).
  - **Information concerning particular hazards for human and environment:**  
The product does not have to be labeled due to the calculation procedure of international guidelines.
- 
- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **NFPA ratings (scale 0 - 4)**
- 

Health = 0  
Fire = 0  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
- |            |   |                |
|------------|---|----------------|
| HEALTH     | 0 | Health = 0     |
| FIRE       | 0 | Fire = 0       |
| REACTIVITY | 0 | Reactivity = 0 |
- **Other hazards**  
NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.  
NFPA is the National Fire Protection Association.  
HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

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**Trade name: Power Tape**

(Contd. of page 1)

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Article without release of chemical substances.

Components: Paper and polyacrylates

· **Dangerous components:** Void

### 4 First-aid measures

· **Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** No particular measures necessary.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** In case of persistent irritation, obtain medical advice.

· **After swallowing:** Seek immediate medical advice.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Information for doctor:** Dry adhesive on the basis of polyacrylates and polyacrylate copolymers.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** None known

· **Special hazards arising from the substance or mixture**

In cases of fire, gases that are dangerous to health could be formed.

· **Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

· **Additional information:** Flash point: > 100 °C (> 212°F).

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:** No special measures required.

· **Methods and material for containment and cleaning up:** No special measures required.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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(Contd. on page 3)



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Trade name: Power Tape

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## 7 Handling and storage

- **Precautions for safe handling**

Keep out of the reach of children.

Avoid contact with the eyes and skin.

No special measures required.

Rinse tools with water and soap immediately after use.

Wash hands before breaks and at the end of work.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Store in dry conditions.

Protect from humidity and water.

Store in a cool place.

- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

No special measures required.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

- **Breathing equipment:**

Not required.

Thorough ventilation should be ensured during and after the installation and drying time of the product.

- **Protection of hands:** Not required.

- **Material of gloves** Not required.

- **Penetration time of glove material** Not applicable.

- **Eye protection:** Not required.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· <b>Form:</b>	Solid
· <b>Color:</b>	colourless to yellowish
· <b>Odor:</b>	Odorless
· <b>Odour threshold:</b>	Not determined.

- **pH-value:** Not applicable

- **Change in condition**

· **Melting point/Melting range:** Undetermined.

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# Safety Data Sheet

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Trade name: Power Tape

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<b>Boiling point/Boiling range:</b>	Not applicable
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not determined.
<b>Ignition temperature:</b>	>400 °C (>752 °F)
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Not applicable
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure:</b>	Not applicable.
<b>Density at 20 °C (68 °F):</b>	~ 1.0 g/cm <sup>3</sup> (~ 8.345 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Skin contact, eye contact, ingestion.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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**Trade name: Power Tape**

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Not applicable.
- **Other information:** Product is free from solvents, free from chlorine and heavy metals.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** No ecotoxicological effects known.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- **Uncleaned packagings:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packaging may be recycled or can be disposed of.

### 14 Transport information

- |   |                 |
|---|-----------------|
| · <b>DOT, ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>UN proper shipping name</b>  | -               |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>DOT, ADN, IMDG, IATA</b>   | Void            |
| · <b>Class</b>  | Void            |
| · <b>DOT, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>  | No              |
| · <b>Special precautions for user</b>   | Not applicable. |
| · <b>Transport/Additional information:</b> Not regulated as hazardous material according to the above specifications. |                 |

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Trade name: **Power Tape**

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· UN "Model Regulation": -

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)

- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

- Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California)

- Chemicals known to cause cancer:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Cancerogenity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- GHS label elements Void

- Hazard pictograms Void

- Signal word Void

- Hazard statements Void

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Contact:

USA: Daniel Gill, phone + 1 720-374-4810

Switzerland: Thomas Wigger, Tel.: +41 (0)41 922 21 71

- Date of preparation / last revision 06/02/2015 / 1

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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**acc. to OSHA HCS**

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**Trade name: Power Tape**

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ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)

· **\* Data compared to the previous version altered.**

USA

# Material Safety Data Sheet

## Identification

Trade Name: TarkettTAPE™  
Product Class: Specialty Tape  
Product Name: polyester film with silicone based adhesive  
Product Use: Installation tape for ethos modular with  
Omniccoat Technology™, Flex Aire Modular Cushion

## Hazard Identification

Hazardous Ingredients: None  
HMIS (0=minimal hazard; 4=severe hazard)  
Health=0; Flammability=1; Reactivity=0; PPE=B

## Composition/Information on Ingredients

Description: Silicone Adhesive Tape (gray)

## First-Aid Measures

Eye Contact: Foreign body irritation. Flush eye with water.  
Skin Contact: No significant health effect expected.  
Inhalation: No significant health effect expected.  
Ingestion: No significant health effect expected.  
Get medical attention if symptoms occur.

## Fire-fighting Measures

Flammable Limits: Non-flammable  
Flash Point: Not applicable.  
Flammability Classification: OSHA; None. DOT: None.  
Extinguishing Media: Use Class B extinguishing agents. (e.g. Dry  
Chemical, CO2). Wear self-contained breathing gear when in  
confined area. No unusual fire or explosion hazards are expected.

## Accidental Release Measures

This product does not release or otherwise result in exposure  
to a hazardous chemical under normal use conditions.

## Handling and Storage

Store inside in a cool, dry place. Do not allow product to freeze.

## Exposure Controls/Personal Protection

Ventilation: None required, however, adequate ventilation is  
good practice.  
Protective Gloves: Avoid prolonged skin contact. Use of  
protective gloves is good practice.  
Eye Protection: Avoid eye contact. Use of eye protection is  
good practice.  
Hygienic Practices: Wash with soap and water after exposure.  
Respiratory Protection: Not required with adequate ventilation.  
Other Protective Equipment: None.

## Physical and Chemical Properties

pH: Not Applicable  
Boiling Point: Not Applicable  
Vapor Density: Not Applicable  
Evaporation Rate: Not Applicable  
Odor, Color, Grade: Silicone adhesive tape; gray  
General Physical Form: Solid  
Percent Volatile by Weight: Not Applicable  
Solubility in Water: Insoluble  
V.O.C. Content: Meets SCAQMD Rule 1168.

# Tandus Centiva

A Tarkett Company



TarkettTAPE™

Tandus Centiva  
1000 Vista Drive  
Dalton, GA 30721

Emergency Telephone Chemtrec: 800-424-9300  
Information Telephone: 800-241-4902  
International Emergency: Call (USA) 202-483-7616

## Stability and Reactivity

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.  
Hazardous Polymerization: Will not occur.

## Toxicological Information

Not available

## Ecological Information

Not available

## Disposal Considerations

Under normal conditions of use, this product is classified  
as a non-hazardous material.  
Dispose of in accordance with Federal, State and Local  
regulations.

## Transport Information

Not regulated per US D.O.T., IATA or IMO.

## Regulatory Information

This product does not contain chemicals subject to the  
reporting requirements of Section 313 of SARA Title III  
and 40 CFR 372.  
This product is an article as defined by TSCA regulations,  
and is exempt from TSCA Inventory listing requirements.  
This product does not contain asbestos.

## Other Information

Tandus Centiva believes the data set forth herein are  
accurate as of the date hereof. Tandus Centiva makes no  
warranty with respect thereto and expressly disclaims all  
liability for reliance thereon. Such data are offered solely  
for your consideration, investigation and verification.

## Safety Data Sheet

### ULTRABOND ECO 285

Safety Data Sheet dated: 5/12/2015 - version 1

Date of first edition: 5/12/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 285

### Recommended use of the chemical and restrictions on use

Recommended use: Flooring Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2B	Causes eye irritation
Carc. 1A	May cause cancer if inhaled.

### Label elements

#### Symbols:



Danger

Code	Description
------	-------------

H315	Causes skin irritation.
------	-------------------------

H320	Causes eye irritation
------	-----------------------

H350.A	May cause cancer if inhaled.
--------	------------------------------

Code	Description
------	-------------

P201	Obtain special instructions before use.
------	---

P202	Do not handle until all safety precautions have been read and understood.
------	---

P264.2	Wash skin thoroughly after handling.
--------	--------------------------------------

P280	Wear protective gloves/protective clothing/eye protection/face protection.
------	--

P302+P352.A	IF ON SKIN: Wash with plenty of water.
-------------	--

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
----------------	--

P308+P313	IF exposed or concerned: Get medical advice/attention.
-----------	--

P321.A	Specific treatment (see supplementary instructions on this label)
--------	---

P332+P313	If skin irritation occurs: Get medical advice/attention.
-----------	--

P337+P313	If eye irritation persists: Get medical advice/attention.
-----------	---

P362+P364	Take off contaminated clothing and wash it before reuse.
-----------	--

P405	Store locked up.
------	------------------

P501.A	Dispose of contents/container in accordance with applicable regulations.
--------	--

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

Date 5/13/2015 Production Name ULTRABOND ECO 285

Page n. 1 of 7

None

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

N.A.

#### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

##### List of components

Quantity	Name	Ident. Numb.	Classification
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS:64741-96-4	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

---

### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

#### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

#### Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

#### Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.



## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

- Storage temperature: N.A.
- Incompatible materials:
  - None in particular.
- Instructions as regards storage premises:
  - Adequately ventilated premises.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

- Use close fitting safety goggles, don't use eye lens.

Protection for skin:

- Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

- Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

- Use adequate protective respiratory equipment.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance and colour: Paste cream
- Odour: characteristic
- Odour threshold: N.A.
- pH: 9.00
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: N.A.
- Flash point: 93 °C (200 °F)
- Evaporation rate: N.A.
- Upper/lower flammability or explosive limits: N.A.
- Vapour density: N.A.
- Vapour pressure: N.A.
- Relative density: N.A.
- Solubility in water: N.A.
- Solubility in oil: N.A.
- Partition coefficient (n-octanol/water): N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.
- Solid/gas flammability: N.A.

### Other information

- Substance Groups relevant properties N.A.
- Miscibility: N.A.
- Fat Solubility: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand                      Group 1

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS: 64741-96-4	LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss> 5000mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna> 1000mg/L 48h IUCLID
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

### Persistence and degradability

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

---

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

**14. TRANSPORT INFORMATION****UN number**

ADR-UN number: N/A  
DOT - UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A  
DOT - Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A  
DOT - Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT - Label(s): N/A  
DOT - Symbol: N/A  
DOT - Cargo Aircraft: N/A  
DOT - Passenger Aircraft: N/A  
DOT - Bulk: N/A  
DOT - Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR - Hazard identification number: N/A  
ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A

IMDG-Special Provisions: N/A

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Petroleum distillates, solvent-refined heavy naphthenic	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
-------------	----------------------

#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Silica Sand

---

## 16. OTHER INFORMATION

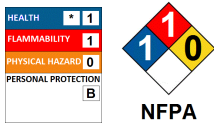
Code	Description
H315	Causes skin irritation.
H320	Causes eye irritation

H350.A May cause cancer if inhaled.  
H372.A Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 5/12/2015 - version 1

Product code: 2083

### Additional classification information



HMIS Health: 1 = SLIGHT

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = SLIGHT

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.



## Safety Data Sheet

### ULTRABOND ECO 360

Safety Data Sheet dated: 8/8/2016 - version 2

Date of first edition: 5/8/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 360

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

None

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

No Data Available

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste white

Odour: like: Acrylate

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: >100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: 1.15

Vapour pressure: N.A.

Relative density: 1.05 g/cm<sup>3</sup>  
Solubility in water: Dispersible  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

**Other information**

Substance groups relevant properties: N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

**10. STABILITY AND REACTIVITY**

**Reactivity**

Stable under normal conditions

**Chemical stability**

Data not Available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

---

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Toxicological information of the product: No Data Available

**Substance(s) listed on the IARC Monographs:**

None

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

---

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

No Data Available

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.



### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

### 14. TRANSPORT INFORMATION

#### UN number

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

#### UN proper shipping name

ADR-Shipping Name: N/A  
DOT-Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

#### Transport hazard class(es)

ADR-Class: N/A  
DOT-Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

#### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

#### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

### 15. REGULATORY INFORMATION

#### USA - Federal regulations

## **TSCA - Toxic Substances Control Act**

### **TSCA inventory:**

All the components are listed on the TSCA inventory

### **TSCA listed substances:**

no substances listed

## **SARA - Superfund Amendments and Reauthorization Act**

### **Section 302 - Extremely Hazardous Substances:**

no substances listed

### **Section 304 - Hazardous substances:**

no substances listed

### **Section 313 - Toxic chemical list:**

no substances listed

## **CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

### **Substance(s) listed under CERCLA:**

no substances listed

## **CAA - Clean Air Act**

### **CAA listed substances:**

no substances listed

## **CWA - Clean Water Act**

### **CWA listed substances:**

no substances listed

## **USA - State specific regulations**

### **California Proposition 65**

#### **Substance(s) listed under California Proposition 65:**

no substances listed

### **Massachusetts Right to know**

#### **Substance(s) listed under Massachusetts Right to know:**

no substances listed

### **Pennsylvania Right to know**

#### **Substance(s) listed under Pennsylvania Right to know:**

no substances listed

### **New Jersey Right to know**

#### **Substance(s) listed under New Jersey Right to know:**

no substances listed

## **Canada- Federal regulations**

### **DSL - Domestic Substances List**

#### **DSL Inventory:**

All the substances are listed in the DSL.

### **NDSL - Non Domestic Substances List**

#### **NDSL Inventory:**

no substances listed

### **NPRI - National Pollutant Release Inventory**

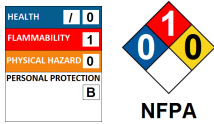
#### **Substances listed in NPRI:**

no substances listed

---

## **16. OTHER INFORMATION**

**Additional classification information**



HMIS Health: 0 = Minimal

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = Minimal

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION

## Safety Data Sheet

### ULTRABOND ECO 390

Safety Data Sheet dated: 7/27/2015 - version 3

Date of first edition: 6/1/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 390

### Recommended use of the chemical and restrictions on use

Recommended use: Flooring Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2B Causes eye irritation

### Label elements

#### Symbols:



Warning

Code	Description
------	-------------

H315	Causes skin irritation.
------	-------------------------

H320	Causes eye irritation
------	-----------------------

Code	Description
------	-------------

P201	Obtain special instructions before use.
------	---

P202	Do not handle until all safety precautions have been read and understood.
------	---

P264.2	Wash skin thoroughly after handling.
--------	--------------------------------------

P280.1	Wear protective gloves and eye protection.
--------	--

P302+P352.A	IF ON SKIN: Wash with plenty of water.
-------------	--

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
----------------	--

P308+P313	IF exposed or concerned: Get medical advice/attention.
-----------	--

P321.A	Specific treatment (see supplementary instructions on this label)
--------	---

P332+P313	If skin irritation occurs: Get medical advice/attention.
-----------	--

P337+P313	If eye irritation persists: Get medical advice/attention.
-----------	---

P362+P364	Take off contaminated clothing and wash it before reuse.
-----------	--

P405	Store locked up.
------	------------------

P501.A	Dispose of contents/container in accordance with applicable regulations.
--------	--

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

N.A.

#### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

##### List of components

Quantity	Name	Ident. Numb.	Classification
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS:64741-96-4	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

---

### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

#### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

#### Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

#### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand  
Wash with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:  
Use close fitting safety goggles, don't use eye lens.  
Protection for skin:  
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.  
Protection for hands:  
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.  
Respiratory protection:  
N.A.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid  
Appearance and colour: Paste beige  
Odour: characteristic  
Odour threshold: N.A.  
pH: 9.00  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: >100 °C (212 °F)  
Flash point: >100 °C (212 °F) Notes: Closed Cup ( Closed Cup )  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: N.A.  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand                      Group 1

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS: 64741-96-4	LC50 a) Aquatic acute toxicity Fish <i>Oncorhynchus mykiss</i> > 5000mg/L 96h IUCLID EC50 a) Aquatic acute toxicity <i>Daphnia magna</i> > 1000mg/L 48h IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

---

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

**14. TRANSPORT INFORMATION****UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Hazard identification number: N/A

ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subrisk: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A



Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Petroleum distillates, solvent-refined heavy naphthenic	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
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#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Silica Sand

---

## 16. OTHER INFORMATION

Code	Description
H315	Causes skin irritation.
H320	Causes eye irritation
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/27/2015 - version 3

Product code: 2698

#### Additional classification information



HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

#### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

#### Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 4. FIRST AID MEASURES

## Safety Data Sheet

### ULTRABOND ECO 420

Safety Data Sheet dated: 7/24/2015 - version 2

Date of first edition: 6/1/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 420

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2B Causes eye irritation

### Label elements

#### Symbols:



Warning

Code	Description
------	-------------

H315	Causes skin irritation.
------	-------------------------

H320	Causes eye irritation
------	-----------------------

Code	Description
------	-------------

P201	Obtain special instructions before use.
------	---

P202	Do not handle until all safety precautions have been read and understood.
------	---

P264.2	Wash skin thoroughly after handling.
--------	--------------------------------------

P280	Wear protective gloves/protective clothing/eye protection/face protection.
------	--

P302+P352.A	IF ON SKIN: Wash with plenty of water.
-------------	--

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
----------------	--

P308+P313	IF exposed or concerned: Get medical advice/attention.
-----------	--

P321.A	Specific treatment (see supplementary instructions on this label)
--------	---

P332+P313	If skin irritation occurs: Get medical advice/attention.
-----------	--

P337+P313	If eye irritation persists: Get medical advice/attention.
-----------	---

P362+P364	Take off contaminated clothing and wash it before reuse.
-----------	--

P501.A	Dispose of contents/container in accordance with applicable regulations.
--------	--

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

N.A.

#### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

##### List of components

Quantity	Name	Ident. Numb.	Classification
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS:64741-96-4	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

---

### 4. FIRST AID MEASURES

#### Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

#### Most important symptoms/effects, acute and delayed

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

#### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.

#### Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

---

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

#### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance and colour: Paste beige
- Odour: characteristic
- Odour threshold: N.A.
- pH: 9.00
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: N.A.
- Flash point: >100 °C (212 °F)
- Evaporation rate: Same as water
- Upper/lower flammability or explosive limits: N.A.
- Vapour density: N.A.
- Vapour pressure: N.A.
- Relative density: N.A.
- Solubility in water: Dispersible
- Solubility in oil: N.A.
- Partition coefficient (n-octanol/water): N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.
- Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

Silica Sand    Group 1

#### Substance(s) listed as OSHA Carcinogen(s):

Silica Sand

#### Substance(s) listed as NIOSH Carcinogen(s):

Silica Sand

#### Substance(s) listed on the NTP report on Carcinogens:

Silica Sand

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	Petroleum distillates, solvent-refined heavy naphthenic	CAS: 64741-96-4	LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss> 5000mg/L 96h IUCLID EC50 a) Aquatic acute toxicity Daphnia Daphnia magna> 1000mg/L 48h IUCLID
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

### Persistence and degradability

Date      7/24/2015                      Production Name      ULTRABOND ECO 420

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N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

---

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Hazard identification number: N/A

ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subrisk: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Petroleum distillates, solvent-refined heavy naphthenic	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand	Listed as carcinogen
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#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Silica Sand

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## 16. OTHER INFORMATION

Code	Description
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Date	7/24/2015	Production Name	ULTRABOND ECO 420
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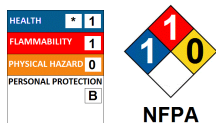


H315	Causes skin irritation.
H320	Causes eye irritation
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/24/2015 - version 2

Product code: 2641

### Additional classification information



HMIS Health: 1 = Slight

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

### Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION



# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

Material Name: ULTRABOND ECO 570

### Product Use

Flooring Adhesive

### Manufacturer Information

USA and Puerto Rico

#### MAPEI

1144 East Newport Center Drive  
Deerfield Beach, FL 33442  
Phone: 1-954-246-8888

Canada

#### MAPEI

2900 Francis-Hughes Avenue  
Laval, QC H7L 3J5  
Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-631-996-6666

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product may cause sensitization by inhalation and skin contact. This product is irritating to the eyes, respiratory system and skin.

### Hazard Statements

CAUTION! ALLERGEN. IRRITANT. May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system and skin. Vapor harmful. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

### Potential Health Effects: Eyes

This product is irritating to the eyes.

### Potential Health Effects: Skin

This product is irritating to the skin. Prolonged contact with this product may cause allergic skin sensitization reactions.

### Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.

### Potential Health Effects: Inhalation

This product is irritating to the respiratory system. This product may cause sensitization by inhalation.

### Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

### Potential Environmental Effects

None identified.

**HMIS Ratings: Health: 2\* Fire: 0 Reactivity: 0 Pers. Prot.:** Safety glasses, gloves, synthetic apron, NIOSH respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
68083-75-0	Urethane Polymer	10-30
1305-78-8	Calcium oxide	7-13
Proprietary	NJTSRN 5010110	5-10
101-68-8	Methylene bisphenol isocyanate (MDI)	1-5
6422-86-2	1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	0.5-1.5
57-11-4	Stearic acid	0.5-1.5

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

### First Aid: Skin

Flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

### First Aid: Inhalation

Immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

### Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical (preferred), foam, water.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

**NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

Wear appropriate protective equipment and clothing during clean-up.

### Containment Procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

## Evacuation Procedures

None identified.

## Special Procedures

Regulations vary. Consult local authorities before disposal.

## \* \* \* Section 7 - Handling and Storage \* \* \*

### Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Keep out of the reach of children.

### Storage Procedures

Keep the container tightly closed. Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Keep out of sun.

## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### A: Component Exposure Limits

#### Limestone (1317-65-3)

OSHA:	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) 20 mg/m3 STEL
New Brunswick:	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	20 mg/m3 STEL 10 mg/m3 TWA
Yukon:	20 mg/m3 STEL 30 mppcf TWA; 10 mg/m3 TWA

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## Calcium oxide (1305-78-8)

ACGIH:	2 mg/m3 TWA
OSHA:	5 mg/m3 TWA
NIOSH:	2 mg/m3 TWA
Alberta:	2 mg/m3 TWA
British Columbia:	2 mg/m3 TWA
Manitoba:	2 mg/m3 TWA
New Brunswick:	2 mg/m3 TWA
NW Territories:	2 mg/m3 TWA 4 mg/m3 STEL
Nova Scotia:	2 mg/m3 TWA
Nunavut:	2 mg/m3 TWA 4 mg/m3 STEL
Ontario:	2 mg/m3 TWAEV
Quebec:	2 mg/m3 TWAEV
Saskatchewan:	4 mg/m3 STEL 2 mg/m3 TWA
Yukon:	4 mg/m3 STEL 2 mg/m3 TWA

## Methylene bisphenol isocyanate (MDI) (101-68-8)

ACGIH:	0.005 ppm TWA
OSHA:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
NIOSH:	0.005 ppm TWA; 0.05 mg/m3 TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m3 Ceiling (10 min)
Alberta:	0.005 ppm TWA; 0.05 mg/m3 TWA
British Columbia:	Sensitizer 0.005 ppm TWA 0.01 ppm Ceiling Skin notation
Manitoba:	0.005 ppm TWA
New Brunswick:	0.005 ppm TWA; 0.051 mg/m3 TWA
NW Territories:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
Nova Scotia:	0.005 ppm TWA
Nunavut:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
Ontario:	0.005 ppm TWAEV; 0.2 µmol/m3 TWAEV; 0.02 ppm CEV; 0.8 µmol/m3 CEV 0.005 ppm TWAEV (designated substance regulation); 0.2 µmol/m3 TWAEV (designated substance regulation) 0.02 ppm CEV (designated substances regulation); 0.8 µmol/m3 CEV (designated substances regulation)
Quebec:	0.005 ppm TWAEV; 0.051 mg/m3 TWAEV
Saskatchewan:	0.015 ppm STEL 0.005 ppm TWA
Yukon:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling

### Engineering Controls

Use general ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields. Wear chemical goggles; face shield (if splashing is possible).

#### Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. This product may cause sensitization by skin contact.

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Material Name: ULTRABOND ECO 570

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## Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.  
This product may cause sensitization by inhalation.

## Personal Protective Equipment: General

Laundry contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Beige paste	<b>Odor:</b>	Odorless
<b>Physical State:</b>	Paste	<b>pH:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Vapor Density:</b>	N/A
<b>Boiling Point:</b>	N/A	<b>Melting Point:</b>	N/A
<b>Solubility (H2O):</b>	Insoluble	<b>Specific Gravity:</b>	1.40 - 1.70
<b>Evaporation Rate:</b>	N/A	<b>VOC:</b>	18 g/L
<b>Octanol/H2O Coeff.:</b>	N/A	<b>Flash Point:</b>	>200° F (93° C)
<b>Flash Point Method:</b>	CC	<b>Upper Flammability Limit (UFL):</b>	N/A
<b>Lower Flammability Limit (LFL):</b>	N/A	<b>Burning Rate:</b>	N/A
<b>Auto Ignition:</b>	N/A		

## Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

#### Chemical Stability

Stable under normal conditions.

#### Chemical Stability: Conditions to Avoid

Do not freeze.

#### Incompatibility

This product may react with strong acids, bases and oxidizing agents.

#### Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

#### Possibility of Hazardous Reactions

Will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute Dose Effects

##### A: General Product Information

No information available for the product.

##### B: Component Analysis - LD50/LC50

###### Calcium oxide (1305-78-8)

Oral LD50 Rat 500 mg/kg

###### Methylene bisphenol isocyanate (MDI) (101-68-8)

Oral LD50 Rat 9200 mg/kg

###### Stearic acid (57-11-4)

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

Dermal LD50 Rabbit >5 g/kg

## Carcinogenicity

### A: General Product Information

No information available for the product.

### B: Component Carcinogenicity

#### Methylene bisphenol isocyanate (MDI) (101-68-8)

IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))
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## Sensitization

This product may cause sensitization by inhalation and skin contact.

## \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity

### A: General Product Information

No information available for the product.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Calcium oxide (1305-78-8)

Test & Species		Conditions
96 Hr LC50 Cyprinus carpio	1070 mg/L [static]	

## \*\*\* Section 13 - Disposal Considerations \*\*\*

## US EPA Waste Number & Descriptions

### A: General Product Information

No additional information available.

### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

## Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

## International Transportation Regulations

Not regulated as dangerous goods.

## \*\*\* Section 15 - Regulatory Information \*\*\*

## US Federal Regulations

### A: General Product Information

All of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

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## B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

### Methylene bisphenol isocyanate (MDI) (101-68-8)

SARA 313:	1.0 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kg final RQ

## State Regulations

### A: General Product Information

Other state regulations may apply. Check individual state requirements.

### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Calcium oxide	1305-78-8	Yes	Yes	Yes	Yes	Yes	Yes
Methylene bisphenol isocyanate (MDI)	101-68-8	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
WARNING! This product contains a chemical known to the state of California to cause cancer.

## Canadian WHMIS Information

### A: General Product Information



### B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Calcium oxide	1305-78-8	1 %
Methylene bisphenol isocyanate (MDI)	101-68-8	0.1 %

## Additional Regulatory Information

### A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

### B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Limestone	1317-65-3	Yes	NDSL	EINECS
Calcium oxide	1305-78-8	Yes	DSL	EINECS
NJTSRN 5010110	Proprietary	Yes	DSL	EINECS
Methylene bisphenol isocyanate (MDI)	101-68-8	Yes	DSL	EINECS
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	6422-86-2	Yes	DSL	EINECS
Stearic acid	57-11-4	Yes	DSL	EINECS

## \*\*\* Section 16 - Other Information \*\*\*

### Reference

T1-1438-51



# Material Safety Data Sheet

**Material Name:** ULTRABOND ECO 570

**ID:** SAH00566

## Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

## Key/Legend

NA = Not available or Not Applicable. ACGIH = American Conference of Governmental Industrial Hygienists. NFPA = National Fire Protection Association. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

**Contact:** Product Safety Specialist

**Contact Phone:** 1-954-246-8888

End of Sheet SAH00566



## Safety Data Sheet

### ULTRABOND ECO 575

Safety Data Sheet dated: 7/16/2015 - version 3

Date of first edition: 5/13/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 575

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

#### Classification of the chemical

No specific hazards are encountered under normal product use.

### Label elements

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity	Name	Ident. Numb.	Classification
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

N.A.

**Indication of any immediate medical attention and special treatment needed**

---

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste beige

Odour: Slightly latex like

Odour threshold: N.A.

pH: 9.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: >100 °C (212 °F)

Evaporation rate: same as water

Upper/lower flammability or explosive limits: N.A.

Vapour density: 1.15

Vapour pressure: 1.00 (kPa 50°C)

Relative density: N.A.

Solubility in water: Soluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Silica Sand                      a) acute toxicity                      LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

Silica Sand Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**14. TRANSPORT INFORMATION**

**UN number**

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

**UN proper shipping name**

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

**Transport hazard class(es)**

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT-Label(s): N/A  
DOT-Symbol: N/A  
DOT-Cargo Aircraft: N/A  
DOT-Passenger Aircraft: N/A  
DOT-Bulk: N/A  
DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR-Hazard identification number: N/A  
ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

**15. REGULATORY INFORMATION****USA - Federal regulations****TSCA - Toxic Substances Control Act****TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Silica Sand is listed in TSCA Section 8b

**SARA - Superfund Amendments and Reauthorization Act****Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act****Substance(s) listed under CERCLA:**

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

#### USA - State specific regulations

##### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Silica Sand Listed as carcinogen

##### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Silica Sand

##### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Silica Sand

##### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Silica Sand

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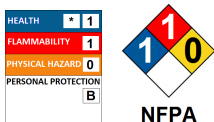
## 16. OTHER INFORMATION

Code	Description
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/16/2015 - version 3

Product code: 4110

#### Additional classification information



HMIS Health: 1 = Slight  
HMIS Health - Is health hazard chronic?: Yes  
HMIS Flammability: 1 = Combustible if heated  
HMIS Reactivity: 0 = Minimal  
HMIS P.P.E.: Safety glasses, gloves  
NFPA Health: 1 = Slight  
NFPA Flammability: 1 = Combustible if heated  
NFPA Reactivity: 0 = Minimal  
NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

#### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 4. FIRST AID MEASURES





## Safety Data Sheet

### ULTRABOND ECO 711

Safety Data Sheet dated: 11/24/2015 - version 3

Date of first edition: 5/9/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 711

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity	Name	Ident. Numb.	Classification
1-5 %	Urea	CAS:57-13-6	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

No Data Available

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste beige

Odour: Slightly latex like

Odour threshold: N.A.

pH: 9.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: >100 °C (212 °F)

Evaporation rate: same as water  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: 1.15  
Vapour pressure: 1.00 (kPa 50>C)  
Relative density: N.A.  
Solubility in water: Soluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### **Other information**

Substance groups relevant properties: N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## **10. STABILITY AND REACTIVITY**

### **Reactivity**

Stable under normal conditions

### **Chemical stability**

Data not Available.

### **Possibility of hazardous reactions**

None.

### **Conditions to avoid**

Stable under normal conditions.

### **Incompatible materials**

None in particular.

### **Hazardous decomposition products**

None.

---

## **11. TOXICOLOGICAL INFORMATION**

### **Information on toxicological effects**

#### **Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### **Toxicological information on main components of the mixture:**

Urea                                      a) acute toxicity                                      LD50 Oral Rat = 8471,00000mg/kg

**If not differently specified, the information required in the regulation and listed below must be considered as N.A.**

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### **Substance(s) listed on the IARC Monographs:**

None

#### **Substance(s) listed as OSHA Carcinogen(s):**

None

#### **Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

---

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
1-5 %	Urea	CAS: 57-13-6	LC50 a) Aquatic acute toxicity Fish Poecilia reticulata16200mg/L 96h EPA EC50 a) Aquatic acute toxicity Daphnia Daphnia magna= 3910mg/L 48h EPA EC50 a) Aquatic acute toxicity Daphnia Magna Straus> 10000,00000mg/L 24hr

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

---

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

ADR-UN number: N.A.

DOT-UN Number: N.A.

IATA-Un number: N.A.

IMDG-Un number: N.A.

**UN proper shipping name**

ADR-Shipping Name: N.A.

DOT-Proper Shipping Name: N.A.

IATA-Technical name: N.A.

IMDG-Technical name: N.A.

**Transport hazard class(es)**

ADR-Class: N.A.

DOT-Hazard Class: N.A.

IATA-Class: N.A.

IMDG-Class: N.A.

**Packing group**

ADR-Packing Group: N.A.

DOT-Packing group: N.A.

IATA-Packing group: N.A.

IMDG-Packing group: N.A.

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

---

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Urea is listed in TSCA Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

**Substance(s) listed under CERCLA:**

no substances listed

#### CAA - Clean Air Act

**CAA listed substances:**

no substances listed

#### CWA - Clean Water Act

**CWA listed substances:**

no substances listed

### USA - State specific regulations

#### California Proposition 65

**Substance(s) listed under California Proposition 65:**

no substances listed

#### Massachusetts Right to know

**Substance(s) listed under Massachusetts Right to know:**

no substances listed

#### Pennsylvania Right to know

**Substance(s) listed under Pennsylvania Right to know:**

no substances listed

#### New Jersey Right to know

**Substance(s) listed under New Jersey Right to know:**

no substances listed

### Canada- Federal regulations

#### DSL - Domestic Substances List

**DSL Inventory:**

All the substances are listed in the DSL.

#### NDSL - Non Domestic Substances List

**NDSL Inventory:**

no substances listed

## NPRI - National Pollutant Release Inventory

### Substances listed in NPRI:

no substances listed

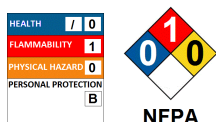
## 16. OTHER INFORMATION

Code	Description
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Safety Data Sheet dated: 11/24/2015 - version 3

Product code: 2218

### Additional classification information



HMIS Health: 0 = Minimal

HMIS Health - Is health hazard chronic?: No

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = Minimal

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION



## Safety Data Sheet

### ULTRABOND ECO 810

Safety Data Sheet dated: 5/15/2015 - version 1

Date of first edition: 5/15/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 810

### Recommended use of the chemical and restrictions on use

Recommended use: Flooring Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

Classification of the chemical

0 The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

None

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### Most important symptoms/effects, acute and delayed

N.A.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media:



None in particular.

### **Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### **Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### **Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### **Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

No Data Available

Appropriate engineering controls: N.A.

### **Individual protection measures**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

---

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

Physical state: Liquid

Appearance and colour: Paste white

Odour: like: Acrylate

Odour threshold: N.A.

pH: 9.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: >100 °C (212 °F)

Flash point: >100 °C (212 °F)

Evaporation rate: Similar to water

Upper/lower flammability or explosive limits: N.A.

Vapour density: 1.15

Vapour pressure: 1.00 (kPa 50°C)

Relative density: N.A.  
Solubility in water: DISPERSIBLE  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

**Other information**

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

**10. STABILITY AND REACTIVITY**

**Reactivity**

Stable under normal conditions

**Chemical stability**

Data not Available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

---

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Toxicological information of the product: No Data Available

**Substance(s) listed on the IARC Monographs:**

None

**Substance(s) listed as OSHA Carcinogen(s):**

None

**Substance(s) listed as NIOSH Carcinogen(s):**

None

**Substance(s) listed on the NTP report on Carcinogens:**

None

---

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

No Data Available

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

---

### 14. TRANSPORT INFORMATION

#### UN number

ADR-UN number: N/A  
DOT - UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

#### UN proper shipping name

ADR-Shipping Name: N/A  
DOT - Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

#### Transport hazard class(es)

ADR-Class: N/A  
DOT - Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

#### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

#### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT - Label(s): N/A  
DOT - Symbol: N/A  
DOT - Cargo Aircraft: N/A  
DOT - Passenger Aircraft: N/A  
DOT - Bulk: N/A  
DOT - Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR - Hazard identification number: N/A  
ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

---

### 15. REGULATORY INFORMATION

#### USA - Federal regulations

Date 5/15/2015 Production Name ULTRABOND ECO 810

Page n. 4 of 6

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

no substances listed

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act**

**CAA listed substances:**

no substances listed

**CWA - Clean Water Act**

**CWA listed substances:**

no substances listed

**USA - State specific regulations**

**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

no substances listed

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

no substances listed

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

no substances listed

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

no substances listed

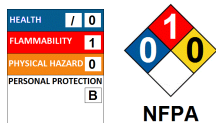
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**16. OTHER INFORMATION**

Safety Data Sheet dated: 5/15/2015 - version 1

Product code: 2553

**Additional classification information**



HMIS Health: 0 = Minimal  
HMIS Health - Is health hazard chronic?: No  
HMIS Flammability: 1 = Combustible if heated  
HMIS Reactivity: 0 = Minimal  
HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 0 = Minimal

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

## Safety Data Sheet

### ULTRABOND ECO 905

Safety Data Sheet dated: 7/23/2015 - version 2

Date of first edition: 5/22/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 905

### Recommended use of the chemical and restrictions on use

Recommended use: Urethane adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Skin Irrit. 2	Causes skin irritation.
Eye Dam. 1	Causes serious eye damage.
Resp. Sens. 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	May cause an allergic skin reaction.

### Label elements

#### Symbols:



Danger

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261.B	Avoid breathing dust.
P264.2	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280.I	Wear protective gloves and eye protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352.A	IF ON SKIN: Wash with plenty of water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

P310.A	Immediately call a POISON CENTER.
P321.A	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311.A	If experiencing respiratory symptoms: Call a POISON CENTER.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

N.A.

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Quantity	Name	Ident. Numb.	Classification
10-20 %	Calcium oxide	CAS:1305-78-8	Skin Irrit. 2, H315; STOT SE 3, H335; Eye Dam. 1, H318
5-10 %	Soybean oil, methyl ester	CAS:67784-80-9	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
0.1-1 %	4,4' -Methylenediphenyl diisocyanate	CAS:101-68-8	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H351
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Calcium oxide	OSHA			5					
	ACGIH			2					upper respiratory tract irritation;
4,4' -Methylenediphenyl diisocyanate	ACGIH				0,005				respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI));
	OSHA		C			0,2	0,02		
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties



Physical state: Liquid  
Appearance and colour: Paste beige  
Odour: odourless  
Odour threshold: N.A.  
pH: N.A.  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: N.A.  
Flash point: >100,0 °C (212,0 °F)  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: Insoluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Solid/gas flammability: N.A.

#### Other information

Substance Groups relevant properties N.A.  
Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Calcium oxide	a) acute toxicity	LD50 Oral Rat = 500mg/kg
4,4' -Methylenediphenyl diisocyanate	a) acute toxicity	LC50 Inhalation Rat = 369mg/m3 4h
Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation

- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

4,4' -Methylenediphenyl diisocyanate	Group 3
Silica Sand	Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	Calcium oxide	CAS: 1305-78-8	LC50 a) Aquatic acute toxicity Fish Cyprinus carpio= 1070mg/L 96h IUCLID
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

- ADR-UN number: N.A.
- DOT-UN Number: N.A.
- IATA-Un number: N.A.
- IMDG-Un number: N.A.

**UN proper shipping name**

- ADR-Shipping Name: N.A.
- DOT-Proper Shipping Name: N.A.
- IATA-Technical name: N.A.
- IMDG-Technical name: N.A.

**Transport hazard class(es)**

- ADR-Class: N.A.
- DOT-Hazard Class: N.A.
- IATA-Class: N.A.
- IMDG-Class: N.A.

**Packing group**

ADR-Packing Group: N.A.

DOT-Packing group: N.A.  
IATA-Packing group: N.A.  
IMDG-Packing group: N.A.

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

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**15. REGULATORY INFORMATION**

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Calcium oxide	is listed in TSCA	Section 8b
Soybean oil, methyl ester	is listed in TSCA	Section 8b
4,4' -Methylenediphenyl diisocyanate	is listed in TSCA	Section 8b, Section 8a - PAIR
Silica Sand	is listed in TSCA	Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

4,4' -Methylenediphenyl diisocyanate

**Section 313 - Toxic chemical list:**

4,4' -Methylenediphenyl diisocyanate

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

4,4' -Methylenediphenyl diisocyanate	Reportable quantity:	5000	pounds
	Reportable quantity for mixture:	769230.769	pounds

**CAA - Clean Air Act**

**CAA listed substances:**

4,4' -Methylenediphenyl diisocyanate	is listed in CAA	Section 112(b) - HAP, Section 112(b) - HON
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**CWA - Clean Water Act**

**CWA listed substances:**

no substances listed

**USA - State specific regulations**

**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

Silica Sand	Listed as carcinogen
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**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

Calcium oxide  
4,4' -Methylenediphenyl diisocyanate  
Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Calcium oxide  
4,4' -Methylenediphenyl diisocyanate  
Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Calcium oxide  
Silica Sand

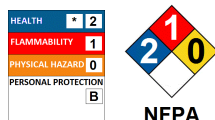
## 16. OTHER INFORMATION

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H350.A	May cause cancer if inhaled.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/23/2015 - version 2

Product code: 2950

#### Additional classification information



HMIS Health: 2 = Moderate

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = Minimal

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 2 = Moderate

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

#### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION

## Safety Data Sheet

### ULTRABOND ECO 985

Safety Data Sheet dated: 4/23/2015 - version 1

Date of first edition: 4/23/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: ULTRABOND ECO 985

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Carc. 1A May cause cancer.

### Label elements

#### Symbols:



Danger

Code	Description
H350.1	May cause cancer.

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280.1	Wear protective gloves and eye protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity	Name	Ident. Numb.	Classification
3-7 %	Soybean oil, methyl ester	CAS:67784-80-9	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
1-5 %	Vinyltrimethoxysilane	CAS:2768-02-7	Flam. Liq. 3, H226; Acute Tox. 4, H332

0.1-1 % Titanium dioxide  
0.1-1 % Silica Sand

CAS:13463-67-7  
CAS:14808-60-7

Carc. 2, H351  
Carc. 1A, H350.A; STOT RE 1, H372.A

---

#### 4. FIRST AID MEASURES

##### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

##### Most important symptoms/effects, acute and delayed

N.A.

##### Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

---

#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

##### Unsuitable extinguishing media:

None in particular.

##### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

##### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

##### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

##### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:  
Adequately ventilated premises.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### List of components with OEL value

Component	OEL Type	Country	Celling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
Titanium dioxide	OSHA			15					A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation;
	ACGIH			10					
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen; lung cancer; pulmonary fibrosis;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State: Liquid

Appearance and colour: Paste white

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: >100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: N.A.

Solubility in water: Insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid



Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

None.

---

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Toxicological information of the mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

**Toxicological information on main components of the mixture:**

Titanium dioxide	a) acute toxicity	LD50 Oral Rat > 10000mg/kg
Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg

**If not differently specified, the information required in the regulation and listed below must be considered as N.A.**

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

Titanium dioxide	Group 2B
Silica Sand	Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

- Titanium dioxide
- Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

- Titanium dioxide
- Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

- Silica Sand

---

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox Infos
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

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### 14. TRANSPORT INFORMATION

#### UN number

ADR-UN number: N/A  
DOT-UN Number: N/A  
IATA-Un number: N/A  
IMDG-Un number: N/A

#### UN proper shipping name

ADR-Shipping Name: N/A  
DOT Proper Shipping Name: N/A  
IATA-Technical name: N/A  
IMDG-Technical name: N/A

#### Transport hazard class(es)

ADR-Class: N/A  
DOT Hazard Class: N/A  
IATA-Class: N/A  
IMDG-Class: N/A

#### Packing group

ADR-Packing Group: N/A  
DOT-Packing group: N/A  
IATA-Packing group: N/A  
IMDG-Packing group: N/A

#### Environmental hazards

Marine pollutant: No  
Environmental Pollutant: N.A.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A  
DOT Label(s): N/A  
DOT Symbol: N/A  
DOT Cargo Aircraft: N/A  
DOT Passenger Aircraft: N/A  
DOT Bulk: N/A  
DOT Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A  
ADR - Hazard identification number: N/A  
ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subrisk: N/A  
IATA-Erg: N/A  
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A  
IMDG-Stowage Note: N/A  
IMDG-Subrisk: N/A  
IMDG-Special Provisions: N/A  
IMDG-Page: N/A  
IMDG-Label: N/A  
IMDG-EMS: N/A  
IMDG-MFAG: N/A

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

Soybean oil, methyl ester	is listed in TSCA	Section 8b
Vinyltrimethoxysilane	is listed in TSCA	Section 8b
Titanium dioxide	is listed in TSCA	Section 8b
Silica Sand	is listed in TSCA	Section 8b

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

Titanium dioxide	Listed as carcinogen
Silica Sand	Listed as carcinogen

#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

Titanium dioxide  
Silica Sand

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

Titanium dioxide  
Silica Sand

#### New Jersey Right to know

##### Substance(s) listed under New Jersey Right to know:

Titanium dioxide  
Silica Sand

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## 16. OTHER INFORMATION

Code	Description
H226	Flammable liquid and vapour.

H315	Causes skin irritation.
H320	Causes eye irritation
H332	Harmful if inhaled.
H350.1	May cause cancer.
H350.A	May cause cancer if inhaled.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 4/23/2015 - version 1

Product code: 2903

### Additional classification information



HMIS Health: 1 = SLIGHT

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = SLIGHT

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWTLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.



# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

**\*\*\* Section 1 - Chemical Product and Company Identification \*\*\***

Material Name: ULTRABOND G19 - Part A

**Product Use**

Polyurethane-based adhesive

**Manufacturer Information**

USA and Puerto Rico

**MAPEI**

1144 East Newport Center Drive

Deerfield Beach, FL 33442

Phone: 1-954-246-8888

Canada

**MAPEI**

2900 Francis-Hughes Avenue

Laval, QC H7L 3J5

Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

**\*\*\* Section 2 - Hazards Identification \*\*\***

**Emergency Overview**

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Combustible liquid. This product is irritating to the eyes and skin. May cause sensitization by skin contact.

**Hazard Statements**

WARNING. COMBUSTIBLE LIQUID AND VAPOR. IRRITANT. Irritating to eyes and skin. May cause sensitization by skin contact. Vapor harmful. This product may be harmful if it is swallowed. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

**Potential Health Effects: Eyes**

This product is irritating to the eyes. Symptoms can include irritation, redness, scratching of the cornea, and tearing.

**Potential Health Effects: Skin**

This product is irritating to the skin. Mechanical rubbing may increase skin irritation. Prolonged contact with this product may cause allergic skin sensitization reactions.

**Potential Health Effects: Ingestion**

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

**Potential Health Effects: Inhalation**

This product may cause irritation to the respiratory system.

**Medical Conditions Aggravated by Exposure**

Hypersensitivity to product, allergies, and skin or respiratory disorders

**Potential Environmental Effects**

No information available for the product.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

**HMIS Ratings: Health: 2 Fire: 2 Physical Hazard: 1 Pers. Prot.:** Safety glasses with side shields, chemical resistant gloves, NIOSH respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
25068-38-6	Epoxy Resin	5-10
141-78-6	Ethylacetate	1-5

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

### First Aid: Skin

Flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

### First Aid: Inhalation

Immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

If product is heated above its flash point it will produce vapors sufficient to support combustion.

### Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical (preferred), foam, water.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

### NFPA Ratings: Health: 2 Fire: 2 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

### Containment Procedures

Contain the discharged material.

### Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

## Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up. Keep out of the reach of children.

## Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

## Special Procedures

Wear appropriate protective equipment and clothing during clean-up.

## \* \* \* Section 7 - Handling and Storage \* \* \*

### Handling Procedures

Keep this product from heat, sparks, or open flame. Use only in well ventilated areas. Avoid breathing vapors or mists of this product. Avoid getting this material into contact with your skin and eyes. Keep out of the reach of children.

### Storage Procedures

Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry, well-ventilated area. Keep the container tightly closed. Do not freeze.

## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### Exposure Guidelines

#### A: General Product Information

Keep formation of airborne mists to a minimum.

#### B: Component Exposure Limits

##### Ethylacetate (141-78-6)

ACGIH:	400 ppm TWA
OSHA:	400 ppm TWA; 1400 mg/m3 TWA
NIOSH:	400 ppm TWA; 1400 mg/m3 TWA
Alberta:	400 ppm TWA; 1440 mg/m3 TWA
British Columbia:	150 ppm TWA
Manitoba:	400 ppm TWA
New Brunswick:	400 ppm TWA; 1440 mg/m3 TWA
NW Territories:	400 ppm TWA; 1441 mg/m3 TWA 500 ppm STEL; 1801 mg/m3 STEL
Nova Scotia:	400 ppm TWA
Nunavut:	400 ppm TWA; 1441 mg/m3 TWA 500 ppm STEL; 1801 mg/m3 STEL
Ontario:	400 ppm TWA
Quebec:	400 ppm TWAEV; 1440 mg/m3 TWAEV
Saskatchewan:	500 ppm STEL 400 ppm TWA
Yukon:	400 ppm STEL; 1400 mg/m3 STEL 400 ppm TWA; 1400 mg/m3 TWA

### Engineering Controls

Use general ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

#### Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

## Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

## Personal Protective Equipment: General

Laundry contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	White paste	<b>Odor:</b>	Slight epoxy odor
<b>Physical State:</b>	Liquid	<b>pH:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Vapor Density:</b>	>1.0
<b>Boiling Point:</b>	>100° F (>38° C)	<b>Melting Point:</b>	N/A
<b>Solubility (H2O):</b>	Insoluble	<b>Specific Gravity:</b>	1.30 - 1.60
<b>Evaporation Rate:</b>	<1.0	<b>VOC:</b>	38 g/L (mixture)
<b>Octanol/H2O Coeff.:</b>	N/A	<b>Flash Point:</b>	104° F (40° C)
<b>Flash Point Method:</b>	CC	<b>Upper Flammability Limit (UFL):</b>	N/A
<b>Lower Flammability Limit (LFL):</b>	N/A	<b>Burning Rate:</b>	N/A
<b>Auto Ignition:</b>	N/A		

## Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

#### Chemical Stability

Stable under normal conditions.

#### Chemical Stability: Conditions to Avoid

Keep away from heat, sparks, or open flame. Eliminate sources of ignition.

#### Incompatibility

This product may react with strong acids, bases and oxidizing agents.

#### Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### Possibility of Hazardous Reactions

Will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute Dose Effects

##### A: General Product Information

No information available for the product.

##### B: Component Analysis - LD50/LC50

###### Ethylacetate (141-78-6)

Oral LD50 Rat 5620 mg/kg (Source: IUCLID); Dermal LD50 Rabbit >20 mL/kg (Source: NLM\_CIP)

#### Carcinogenicity

##### A: General Product Information

No information available for the product.

##### B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.



# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

## Sensitization

This product may be sensitizing by prolonged skin contact.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Ethylacetate (141-78-6)

###### Test & Species

###### Conditions

96 Hr LC50 Pimephales promelas	220 - 250 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	484 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	352 - 500 mg/L [semi-static]
48 Hr EC50 Desmodosmus subspicatus	3300 mg/L
48 Hr EC50 Daphnia magna	560 mg/L [Static]

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### A: General Product Information

No additional information available.

#### B: Component Waste Numbers

##### Ethylacetate (141-78-6)

RCRA: waste number U112 (Ignitable waste)

### Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### DOT Information

**Shipping Name:** Flammable liquids, n.o.s. ( Ethylacetate )

**UN/NA #:** UN1993 **Hazard Class:** 3 **Packing Group:** III

### IMDG Information

**Shipping Name:** Flammable liquid, n.o.s. ( Ethylacetate )

**UN #:** UN1993 **Hazard Class:** 3 **Packing Group:** III

### TDG Information

**Shipping Name:** Flammable liquid, n.o.s. ( Ethylacetate )

**UN/NA #:** UN1993 **Hazard Class:** 3 **Packing Group:** III

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

All of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

#### B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

##### Ethylacetate (141-78-6)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

### State Regulations

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

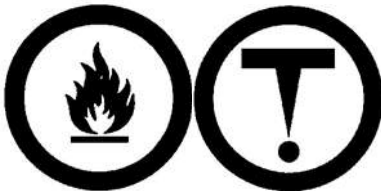
#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Ethylacetate	141-78-6	Yes	Yes	Yes	Yes	Yes	No

### Canadian WHMIS Information

#### A: General Product Information



B3, D2B

#### B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethylacetate	141-78-6	1 %

### Additional Regulatory Information

#### A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part A

ID: SAH00296

## B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Epoxy Resin	25068-38-6	Yes	DSL	No
Ethylacetate	141-78-6	Yes	DSL	EINECS

## \* \* \* Section 16 - Other Information \* \* \*

### Reference

O1-2273-08

### Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### MSDS History

2.0001 - 3.0000

NOTE: THIS MATERIAL SAFETY DATA SHEET HAS UNDERGONE SIGNIFICANT CHANGES AND SHOULD BE READ IN ITS ENTIRETY.

### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; BLV=Biological Limit Values; CAN = Canadian DSL and NDSL Inventories status; CAS = Chemical Abstracts Service; CC = Closed Cup; CFR = Code of Federal Regulations; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; g/L = grams per Liter; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; mg/kg = milligrams per kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; NA, N/A, S.O. = Not available or Not Applicable; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; OC = Open Cup; OSHA = Occupational Safety and Health Administration; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; TWAEV = Time Weighted Average Exposure Value; WHMIS = Workplace Hazardous Materials Information System

**Contact:** Product Safety Representative

**Contact Phone:** 1-954-246-8888

End of Sheet SAH00296



# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

**\*\*\* Section 1 - Chemical Product and Company Identification \*\*\***

Material Name: ULTRABOND G19 - Part B

**Product Use**

Polyurethane-based adhesive

**Manufacturer Information**

USA and Puerto Rico

**MAPEI**

1144 East Newport Center Drive

Deerfield Beach, FL 33442

Phone: 1-954-246-8888

Canada

**MAPEI**

2900 Francis-Hughes Avenue

Laval, QC H7L 3J5

Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

**\*\*\* Section 2 - Hazards Identification \*\*\***

**Emergency Overview**

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Liquid and vapors are extremely flammable. Causes burns to the skin and eyes. This product is irritating to the respiratory system.

**Hazard Statements**

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR - VAPOR MAY CAUSE FLASH FIRE. CORROSIVE.. Causes burns to the skin and eyes. Irritating to respiratory system. Vapor harmful. This product is harmful by inhalation and if it is swallowed. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

**Potential Health Effects: Eyes**

Causes burns to the skin and eyes. High concentration of product vapors can cause severe irritation of eyes.

**Potential Health Effects: Skin**

This product is severely irritating to the skin and may cause burns. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

**Potential Health Effects: Ingestion**

This product may be harmful if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

**Potential Health Effects: Inhalation**

This product is irritating to the respiratory system. Aspiration hazard. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

**Medical Conditions Aggravated by Exposure**

Hypersensitivity to product, allergies, and skin or respiratory disorders

**Potential Environmental Effects**

No information available for the product.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

**HMIS Ratings: Health: 3 Fire: 3 Physical Hazard: 0 Pers. Prot.:** Safety glasses, gloves, synthetic apron, vapor respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
108-88-3	Toluene	15-40
90-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	10-30
111-40-0	Diethylene triamine	10-30
80-05-7	Bisphenol A	7-13
68610-56-0	Epoxy resin	7-13

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Get medical attention or advice. Immediately flush eyes with plenty of water for at least 20 minutes.

### First Aid: Skin

Get medical attention or advice. Flush with large amounts of water.

### First Aid: Ingestion

Flush out mouth with water. If the material is swallowed, get immediate medical attention or advice.

### First Aid: Inhalation

Get medical attention or advice. Immediately remove the affected person to fresh air.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

DANGEROUS when exposed to heat or flame. This material can be ignited by flame or spark under all normal atmospheric conditions.

### Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Water spray, dry chemical, carbon dioxide. Foam.

### Fire Fighting Equipment/Instructions

Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

### NFPA Ratings: Health: 3 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

Eliminate ignition sources including sources of electrical, static or frictional sparks.

### Containment Procedures

Contain the discharged material.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

## Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up. Keep out of the reach of children.

## Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

## Special Procedures

Wear appropriate protective equipment and clothing during clean-up.

## \* \* \* Section 7 - Handling and Storage \* \* \*

### Handling Procedures

Keep this product from heat, sparks, or open flame. Use only in well ventilated areas. Avoid breathing vapors or mists of this product. Avoid getting this material into contact with your skin and eyes. Keep out of the reach of children.

### Storage Procedures

Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry, well-ventilated area. Keep the container tightly closed.

## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### A: Component Exposure Limits

#### Toluene (108-88-3)

ACGIH:	20 ppm TWA
OSHA:	200 ppm TWA 300 ppm Ceiling
NIOSH:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL
Alberta:	50 ppm TWA; 188 mg/m3 TWA Substance may be readily absorbed through intact skin
British Columbia:	Adverse reproductive effect 20 ppm TWA
Manitoba:	20 ppm TWA
New Brunswick:	50 ppm TWA; 188 mg/m3 TWA Skin - potential for cutaneous absorption
NW Territories:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL Skin notation
Nova Scotia:	20 ppm TWA
Nunavut:	100 ppm TWA; 375 mg/m3 TWA 150 ppm STEL; 560 mg/m3 STEL Skin notation
Ontario:	20 ppm TWAEV
Quebec:	50 ppm TWAEV; 188 mg/m3 TWAEV Skin designation
Saskatchewan:	60 ppm STEL 50 ppm TWA
Yukon:	Skin notation 150 ppm STEL; 560 mg/m3 STEL 100 ppm TWA; 375 mg/m3 TWA

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

## Diethylene triamine (111-40-0)

ACGIH: Skin - potential significant contribution to overall exposure by the cutaneous route  
1 ppm TWA  
OSHA: 1 ppm TWA; 4 mg/m<sup>3</sup> TWA  
NIOSH: 1 ppm TWA; 4 mg/m<sup>3</sup> TWA  
Potential for dermal absorption  
Alberta: 1 ppm TWA; 4.2 mg/m<sup>3</sup> TWA  
Substance may be readily absorbed through intact skin  
British Columbia: Sensitizer  
1 ppm TWA  
Skin notation  
Manitoba: 1 ppm TWA  
New Brunswick: 1 ppm TWA; 4.2 mg/m<sup>3</sup> TWA  
Skin - potential for cutaneous absorption  
NW Territories: 1 ppm TWA; 4 mg/m<sup>3</sup> TWA  
3 ppm STEL; 13 mg/m<sup>3</sup> STEL  
Skin notation  
Nova Scotia: 1 ppm TWA  
Skin - potential significant contribution to overall exposure by the cutaneous route  
Nunavut: 1 ppm TWA; 4 mg/m<sup>3</sup> TWA  
3 ppm STEL; 13 mg/m<sup>3</sup> STEL  
Skin notation  
Ontario: 1 ppm TWAEV; 4 mg/m<sup>3</sup> TWAEV  
Absorption through skin, eyes, or mucous membranes  
Quebec: 1 ppm TWAEV; 4.2 mg/m<sup>3</sup> TWAEV  
Skin designation  
Saskatchewan: 2 ppm STEL  
1 ppm TWA  
Yukon: Skin notation  
1 ppm STEL; 4 mg/m<sup>3</sup> STEL  
1 ppm TWA; 4 mg/m<sup>3</sup> TWA

## Bisphenol A (80-05-7)

Yukon: 0.05 ppm Ceiling; 2.8 ppm Ceiling

### Engineering Controls

Use general ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear chemical goggles or a full face shield.

#### Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

#### Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

#### Personal Protective Equipment: General

Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b> Amber liquid	<b>Odor:</b> Solvent odor
<b>Physical State:</b> Liquid	<b>pH:</b> N/A
<b>Vapor Pressure:</b> N/A	<b>Vapor Density:</b> >3.0
<b>Boiling Point:</b> >104° F (>40° C)	<b>Melting Point:</b> N/A
<b>Solubility (H2O):</b> Insoluble	<b>Specific Gravity:</b> 0.8 - 1.0
<b>Evaporation Rate:</b> <1.0	<b>VOC:</b> 38 g/L (mixture)
<b>Octanol/H2O Coeff.:</b> N/A	<b>Flash Point:</b> 59° F (15° C)
<b>Flash Point Method:</b> CC	<b>Upper Flammability Limit (UFL):</b> N/A
<b>Lower Flammability Limit (LFL):</b> N/A	<b>Burning Rate:</b> N/A
<b>Auto Ignition:</b> N/A	

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

Keep away from heat, sparks, or open flame. Eliminate sources of ignition.

### Incompatibility

This product may react with strong acids, bases and oxidizing agents.

### Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

##### Toluene (108-88-3)

Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

##### 2,4,6-Tri(dimethylaminomethyl)phenol (90-72-2)

Oral LD50 Rat 1000 mg/kg; Dermal LD50 Rat 1280 mg/kg

##### Diethylene triamine (111-40-0)

Oral LD50 Rat 819 mg/kg; Dermal LD50 Rabbit 672 mg/kg

##### Bisphenol A (80-05-7)

Oral LD50 Rat 3200 mg/kg; Dermal LD50 Rabbit 3000 mg/kg



# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

## Carcinogenicity

### A: General Product Information

No information available for the product.

### B: Component Carcinogenicity

#### Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen  
IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

## Sensitization

No information available for the product.

## \* \* \* Section 12 - Ecological Information \* \* \*

## Ecotoxicity

### A: General Product Information

No information available for the product.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Toluene (108-88-3)

##### Test & Species

##### Conditions

96 Hr LC50 Pimephales promelas	15.22-19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89-7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1-17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi-static]	
96 Hr LC50 Lepomis macrochirus	11.0-15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	50.87-70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	

#### Diethylene triamine (111-40-0)

##### Test & Species

##### Conditions

96 Hr LC50 Leuciscus idus	430 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	248 mg/L [static]	
96 Hr LC50 Poecilia reticulata	1014 mg/L [semi-static]	
72 Hr EC50 Pseudokirchneriella subcapitata	1164 mg/L	
96 Hr EC50 Pseudokirchneriella subcapitata	345.6 mg/L	
96 Hr EC50 Desmodesmus subspicatus	592 mg/L	
24 Hr EC50 Daphnia magna	37 mg/L	

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

48 Hr EC50 Daphnia magna 16 mg/L

## Bisphenol A (80-05-7)

### Test & Species

### Conditions

96 Hr LC50 Pimephales promelas	3.6-5.4 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	4.0-5.5 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4 mg/L
96 Hr LC50 Brachydanio rerio	9.9 mg/L [static]
96 Hr EC50 Pseudokirchneriella subcapitata	2.5 mg/L
48 Hr EC50 Daphnia magna	10.2 mg/L
48 Hr EC50 Daphnia magna	3.9 mg/L
48 Hr EC50 Daphnia magna	9.2 - 11.4 mg/L [Static]

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### A: General Product Information

No information available for the product.

#### B: Component Waste Numbers

##### Toluene (108-88-3)

RCRA: waste number U220

### Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### DOT Information

**Shipping Name:** Flammable liquids, corrosive, n.o.s. ( Toluene , 2,4,6-Tri(dimethylaminomethyl)phenol )

**UN/NA #:** UN2924 **Hazard Class:** 3 (8) **Packing Group:** II

### IMDG Information

**Shipping Name:** Flammable liquid, corrosive, n.o.s. ( Toluene , 2,4,6-Tri(dimethylaminomethyl)phenol )

**UN #:** UN2924 **Hazard Class:** 3 (8) **Packing Group:** II

### TDG Information

**Shipping Name:** Flammable liquid, corrosive, n.o.s. ( Toluene , 2,4,6-Tri(dimethylaminomethyl)phenol )

**UN/NA #:** UN2924 **Hazard Class:** 3, (8) **Packing Group:** II

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

All of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

#### B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

##### Toluene (108-88-3)

SARA 313: 1.0 % de minimis concentration  
CERCLA: 1000 lb final RQ; 454 kg final RQ

##### Bisphenol A (80-05-7)

SARA 313: 1.0 % de minimis concentration

### State Regulations

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes	Yes
Diethylene triamine	111-40-0	Yes	Yes	Yes	Yes	Yes	Yes
Bisphenol A	80-05-7	No	Yes	No	Yes	Yes	No

### Canadian WHMIS Information

#### A: General Product Information



B2, D2B, E

#### B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Toluene	108-88-3	1 %
Diethylene triamine	111-40-0	0.1 %
Bisphenol A	80-05-7	1 %

### Additional Regulatory Information

#### A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

# Material Safety Data Sheet

Material Name: ULTRABOND G19 - Part B

ID: SAH00297

## B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Toluene	108-88-3	Yes	DSL	EINECS
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	Yes	DSL	EINECS
Diethylene triamine	111-40-0	Yes	DSL	EINECS
Bisphenol A	80-05-7	Yes	DSL	EINECS
Epoxy resin	68610-56-0	Yes	DSL	No

## \*\*\* Section 16 - Other Information \*\*\*

### Reference

O1-2270-01

### Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### MSDS History: 2.0001 - 2.0002

This MSDS has been revised in the following section(s):

Section 2 - Hazards Identification

Section 5 - Fire Fighting Measures

Section 16 - Other Information

### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; BLV=Biological Limit Values; CAN = Canadian DSL and NDSL Inventories status; CAS = Chemical Abstracts Service; CC = Closed Cup; CFR = Code of Federal Regulations; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; g/L = grams per Liter; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; mg/kg = milligrams per kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; NA, N/A, S.O. = Not available or Not Applicable; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; OC = Open Cup; OSHA = Occupational Safety and Health Administration; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; TWAEV = Time Weighted Average Exposure Value; WHMIS = Workplace Hazardous Materials Information System

**Contact:** Product Safety Specialist

**Contact Phone:** 1-954-246-8888

End of Sheet SAH00297

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/20/2017

Version No. 5

Reviewed on 03/20/2017

## 1 Identification

- **Trade name:** UZIN NC 170 LevelStar NEW
- **Application of the substance / the mixture** Self Leveling Compound
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Manufacturer:  
 UZIN UTZ AG  
 Dieselstrasse 3  
 D-89079 Ulm  
 Germany  
 Tel.: +49 (0)731 4097-0  
 Fax: +49 (0)731 4097-110
- **Supplier:**  
 UFLOOR Systems Inc.  
 14509 E. 33rd. Place, Unit G  
 Aurora, CO 80011  
 Phone: +720-374-4810  
 Toll-Free: +1 866-505-4810  
 Fax: +1 720-374-2113
- **Information department:**  
 Product safety department  
 email: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)
- **Emergency telephone number:**  
 For Chemical Emergency Spill Leak Fire Exposure or Accident  
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
 International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer. Route of exposure: Inhalation.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS05, GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling:**  
 Quartz (crystalline silica)  
 Portland cement

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Trade name: UZIN NC 170 LevelStar NEW

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- **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

Obtain special instructions before use.

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **NFPA ratings (scale 0 - 4)**



Health = 2

Flammability = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = \*2

Flammability = 0

Reactivity = 0

- **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

\* Chronic health effect possible - inhalation of silica dust may cause lung injury/disease (silicosis). Take appropriate measures to avoid breathing dust. See sections 3, 8 and 11.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Hazardous ingredients:**

CAS: 14808-60-7	Quartz (crystalline silica)	25 - 50%
	☠ Carc. 1A, H350; STOT RE 1, H372	
CAS: 7778-18-9	Calcium sulphate, natural (gypsum)	10 - <25%
CAS: 65997-15-1	Portland cement	10 - <25%
	☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335	

- **Additional information:**

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

The amount of respirable crystalline silica is less than 0.1 %.

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**Trade name: UZIN NC 170 LevelStar NEW**

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For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear dust mask.  
Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

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Trade name: UZIN NC 170 LevelStar NEW

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## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Prevent formation of dust.

Wear suitable protective clothing, gloves and eye/face protection.

When mixing wear suitable NIOSH-approved dust respirator.

Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment (e.g. NIOSH-approved dust respirator).

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Keep receptacle tightly sealed.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:**

Store in dry conditions.

Protect from humidity and water.

- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**

Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**CAS: 14808-60-7 Quartz (crystalline silica)**

PEL see Quartz listing

REL Long-term value: 0.05\* mg/m<sup>3</sup>  
\*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025\* mg/m<sup>3</sup>  
\*as respirable fraction

**CAS: 7778-18-9 Calcium sulphate, natural (gypsum)**

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV Long-term value: 10\* mg/m<sup>3</sup>  
\*as inhalable fraction

**CAS: 65997-15-1 Portland cement**

PEL Long-term value: 50 mppcf or 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV Long-term value: 1\* mg/m<sup>3</sup>  
E; \*as respirable fraction

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Trade name: UZIN NC 170 LevelStar NEW

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Prevent formation of dust.
  - Wear suitable protective clothing, gloves and eye/face protection.
  - Keep away from foodstuffs, beverages and feed.
  - Avoid contact with the eyes and skin.
  - Wash hands before breaks and at the end of work.
- **Respiratory protection:**
  - When mixing wear suitable NIOSH-approved dust respirator.
  - Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment (e.g. NIOSH-approved dust respirator).
- **Protection of hands:**



Use nitrile impregnated cotton-gloves

- **Material of gloves** Nitrile impregnated cotton-gloves
- **Penetration time of glove material**
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid
Color:	Gray
Odor:	Light
- **pH-value at 20 °C (68 °F):** 11
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Not determined.
- **Solubility in / Miscibility with**

Water:	Insoluble.
--------	------------
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **Specific symptoms in biological assay:**

· **Primary route(s) of entry:** Inhalation, skin contact, eye contact.

· **Primary irritant effect:**

· **on the skin:** Slightly irritant effect may occur.

· **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:**

No sensitizing effects known.

Low in Chromate (< 2 ppm) acc. Regulation (EC) No 1907/2006 (REACH).

· **Subacute to chronic toxicity:**

The amount of respirable cristalline silica is less than 0.1 %.

Respirable crystalline silica (quartz) may cause a severe lung disease named silicosis. Symptoms of silicosis may be a shortness of breath, fever or cough. Silicosis is reported to increase the risk of carcinogenicity caused by continuous inhalation of respirable crystalline silica. Though the product itself contains less than 0.1% of respirable crystalline silica, respirable silica may be generated from working procedures such as grinding e.g. In general, inhalation of silica dust should be avoided. Therefore, for your own safety wear a suitable NIOSH-approved respirator in all occasions when handling of the product generates dust.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for mixtures:  
Corrosive

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7	Quartz (crystalline silica)	I
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· **NTP (National Toxicology Program)**

CAS: 14808-60-7	Quartz (crystalline silica)	K
-----------------	-----------------------------	---

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

Carc. 1A

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Do not allow product to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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Trade name: UZIN NC 170 LevelStar NEW

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## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Do not allow product to reach sewage system.  
Mix product residues with water, allow to harden, then dispose of as construction waste.
- **Uncleaned packagings:**
- **Recommendation:**  
Empty paper packaging is recyclable.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

## 14 Transport information

- DOT, ADR, ADN, IMDG, IATA    Void
- UN proper shipping name
- DOT, ADR, ADN, IMDG, IATA    Void
- DOT, ADN, IMDG, IATA
- Class                                    Void
- DOT, IMDG, IATA                    Void
- Environmental hazards:
- Marine pollutant:                    No
- Special precautions for user      Not applicable.
- Transport/Additional information: Not regulated as hazardous material according to the above specifications.
- UN "Model Regulation":            Void

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)
- EPCRA Section 302 (Extremely Hazardous Substances):  
None of the ingredient is listed.
- SARA Title III Section 313 (Toxic Release Inventory - TRI):  
None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):  
All ingredients are listed.
- Proposition 65 (California)
- Chemicals known to cause cancer:  
Crystalline silica (quartz) is classified as a substance known to the State of California to be a carcinogen.
- CAS: 14808-60-7 | Quartz (crystalline silica)
- Chemicals known to cause reproductive toxicity for females:  
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:  
None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:  
None of the ingredients is listed.

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**Trade name: UZIN NC 170 LevelStar NEW**

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- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

CAS: 14808-60-7 Quartz (crystalline silica)

A2

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 14808-60-7 Quartz (crystalline silica)

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS05, GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Quartz (crystalline silica)

Portland cement

- **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

Obtain special instructions before use.

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:**

USA: Daniel Gill, phone + 1 720-374-4810

Germany: Dr. Zieger, phone +49 731.409.7207

- **Date of preparation / last revision** 03/20/2017 / 4

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

(Contd. on page 9)

US

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 03/20/2017

Version No. 5

Reviewed on 03/20/2017

**Trade name: UZIN NC 170 LevelStar NEW**

(Contd. of page 8)

*PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Carc. 1A: Carcinogenicity – Category 1A**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1***. \* Data compared to the previous version altered.**

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

## 1 Identification

- **Trade name:** UZIN NC 182
- **Application of the substance / the mixture** Low slump patching and repair compound
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
UFLOOR Systems Inc.  
200 Garrison Oak Dr.  
Dover, DE 19901  
Phone: (302) 450 1108
- **Information department:**  
Product safety department  
email: msds.info@uzin-utz.com
- **Emergency telephone number:**  
For Chemical Emergency Spill Leak Fire Exposure or Accident  
Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer. Route of exposure: Inhalation.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS05, GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Quartz (crystalline silica)

Portland cement

- **Hazard statements**

Causes serious eye damage.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

Obtain special instructions before use.

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

Trade name: UZIN NC 182

(Contd. of page 1)

### · NFPA ratings (scale 0 - 4)



Health = 2  
Flammability = 0  
Reactivity = 0

### · HMIS-ratings (scale 0 - 4)



Health = \*2  
Flammability = 0  
Reactivity = 0

### · Other hazards

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

\* Chronic health effect possible - inhalation of silica dust may cause lung injury/disease (silicosis). Take appropriate measures to avoid breathing dust. See sections 3, 8 and 11.

### · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

### · Hazardous ingredients:

CAS: 14808-60-7	Quartz (crystalline silica)	25 - 50%
	Carc. 1A, H350; STOT RE 1, H372	
CAS: 7778-18-9	Calcium sulphate (gypsum)	5 - <10%
CAS: 65997-15-1	Portland cement	5 - <10%
	Eye Dam. 1, H318;  Skin Irrit. 2, H315; STOT SE 3, H335	

### · Additional information:

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

The amount of respirable crystalline silica is less than 0.1 %.

For the wording of the listed hazard phrases refer to section 16.

## 4 First-aid measures

### · Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Call a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

### · Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

US



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

**Trade name: UZIN NC 182**

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear dust mask.  
Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of dust.  
Wear suitable protective clothing, gloves and eye/face protection.  
When mixing wear suitable NIOSH-approved dust respirator.  
Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment (e.g. NIOSH-approved dust respirator).  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep receptacle tightly sealed.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in dry conditions.

(Contd. on page 4)

US



# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

Trade name: UZIN NC 182

(Contd. of page 3)

- Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**CAS: 14808-60-7 Quartz (crystalline silica)**

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

**CAS: 7778-18-9 Calcium sulphate (gypsum)**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction

**CAS: 65997-15-1 Portland cement**

PEL	Long-term value: 50 mppcf or 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 1* mg/m <sup>3</sup> E; *as respirable fraction

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Prevent formation of dust.  
Wear suitable protective clothing, gloves and eye/face protection.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
When mixing wear suitable NIOSH-approved dust respirator.  
Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment (e.g. NIOSH-approved dust respirator).
- **Protection of hands:**



Use nitrile impregnated cotton-gloves

- **Material of gloves** Nitrile impregnated cotton-gloves
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

Trade name: UZIN NC 182

(Contd. of page 4)

· **Eye protection:** Safety glasses

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**· **Form:** Solid· **Color:** Gray· **Odor:** Light· **pH-value at 20 °C (68 °F):** 11· **Change in condition**· **Melting point/Melting range:** Undetermined.· **Boiling point/Boiling range:** Undetermined.· **Flash point:** Not applicable.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Density:** Not determined.· **Solubility in / Miscibility with**· **Water:** Insoluble.· **Other information** No further relevant information available.

### 10 Stability and reactivity

· **Reactivity** No further relevant information available.· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Possibility of hazardous reactions** No dangerous reactions known.· **Conditions to avoid** No further relevant information available.· **Incompatible materials:** No further relevant information available.· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **Specific symptoms in biological assay:**· **Primary route(s) of entry:** Inhalation, skin contact, eye contact.· **Primary irritant effect:**· **on the skin:** Slightly irritant effect may occur.· **on the eye:** Strong irritant with the danger of severe eye injury.· **Sensitization:**

No sensitizing effects known.

Low in Chromate (&lt; 2 ppm) acc. Regulation (EC) No 1907/2006 (REACH).

· **Subacute to chronic toxicity:**

The amount of respirable cristalline silica is less than 0.1 %.

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

Trade name: UZIN NC 182

(Contd. of page 5)

Respirable crystalline silica (quartz) may cause a severe lung disease named silicosis. Symptoms of silicosis may be a shortness of breath, fever or cough. Silicosis is reported to increase the risk of carcinogenicity caused by continuous inhalation of respirable crystalline silica. Though the product itself contains less than 0.1% of respirable crystalline silica, respirable silica may be generated from working procedures such as grinding e.g. In general, inhalation of silica dust should be avoided. Therefore, for your own safety wear a suitable NIOSH-approved respirator in all occasions when handling of the product generates dust.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for mixtures:  
Corrosive

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7	Quartz (crystalline silica)	I
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- **NTP (National Toxicology Program)**

CAS: 14808-60-7	Quartz (crystalline silica)	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

Carc. 1A

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Do not allow product to reach sewage system.  
Mix product residues with water, allow to harden, then dispose of as construction waste.
- **Uncleaned packagings:**
- **Recommendation:** Empty paper packaging is recyclable.

## 14 Transport information

- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void

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US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

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Trade name: UZIN NC 182

(Contd. of page 6)

· DOT, ADN, IMDG, IATA	
· Class	Void
· DOT, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport/Additional information:	Not regulated as hazardous material according to the above specifications.
· UN "Model Regulation":	Void

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)

#### · EPCRA Section 302 (Extremely Hazardous Substances):

None of the ingredient is listed.

#### · SARA Title III Section 313 (Toxic Release Inventory - TRI):

None of the ingredients is listed.

#### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

#### · Proposition 65 (California)

#### · Chemicals known to cause cancer:

Crystalline silica (quartz) is classified as a substance known to the State of California to be a carcinogen.

CAS: 14808-60-7 Quartz (crystalline silica)

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### · TLV (Threshold Limit Value established by ACGIH)

CAS: 14808-60-7 Quartz (crystalline silica)

A2

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 14808-60-7 Quartz (crystalline silica)

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms GHS05, GHS08

#### · Signal word Danger

#### · Hazard-determining components of labeling:

Quartz (crystalline silica)

Portland cement

#### · Hazard statements

Causes serious eye damage.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

(Contd. on page 8)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/21/2017

Version No. 4

Reviewed on 03/21/2017

**Trade name: UZIN NC 182**

(Contd. of page 7)

**· Precautionary statements**

*Obtain special instructions before use.*

*Do not breathe dust.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*Do not handle until all safety precautions have been read and understood.*

*IF ON SKIN: Wash with plenty of soap and water.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Contact:**

*Mr. Petras Kruopys*

*petras.kruopys@uzin-utz.com*

**· Date of preparation / last revision 03/21/2017 / 3**
**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Carc. 1A: Carcinogenicity – Category 1A*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

**· \* Data compared to the previous version altered.**

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/20/2017

Version No. 4

Reviewed on 03/20/2017

## 1 Identification

- **Trade name:** UZIN NC 888
- **Application of the substance / the mixture** Skim and Repair Compound
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
UFLOOR Systems Inc.  
200 Garrison Oak Dr.  
Dover, DE 19901  
Phone: (302) 450 1108
- **Information department:**  
Product safety department  
email: msds.info@uzin-utz.com
- **Emergency telephone number:**  
For Chemical Emergency Spill Leak Fire Exposure or Accident  
Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer. Route of exposure: Inhalation.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS05, GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Portland cement

Quartz (crystalline silica)

- **Hazard statements**

Causes serious eye damage.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

Obtain special instructions before use.

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/20/2017

Version No. 4

Reviewed on 03/20/2017

Trade name: UZIN NC 888

(Contd. of page 1)

· **NFPA ratings (scale 0 - 4)**



Health = 2  
Flammability = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*2  
Flammability = 1  
Reactivity = 0

· **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

\* Chronic health effect possible - inhalation of silica dust may cause lung injury/disease (silicosis). Take appropriate measures to avoid breathing dust. See sections 3, 8 and 11.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Hazardous ingredients:**

CAS: 7778-18-9	Calcium sulphate (gypsum)	10 - <25%
CAS: 65997-15-1	Portland cement	5 - <10%
	☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 14808-60-7	Quartz (crystalline silica)	<1.0%
	☠ Carc. 1A, H350; STOT RE 1, H372	

· **Additional information:**

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

Note: Crystalline silica (quartz) is not intentionally added to this product, but may be a naturally occurring impurity in other inorganic fillers used in this product.

The amount of respirable cristalline silica is less than 0.1 %.

For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

(Contd. on page 3)

US



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/20/2017

Version No. 4

Reviewed on 03/20/2017

Trade name: UZIN NC 888

(Contd. of page 2)

- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear dust mask.  
Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use an industrial vacuum cleaner with a high efficiency (HEPA-) filter to clean up dust.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

None of the ingredients is listed.

- **PAC-2:**

None of the ingredients is listed.

- **PAC-3:**

None of the ingredients is listed.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of dust.  
Wear suitable protective clothing, gloves and eye/face protection.  
When mixing wear suitable NIOSH-approved dust respirator.  
Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment (e.g. NIOSH-approved dust respirator).  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep receptacle tightly sealed.

(Contd. on page 4)

US



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/20/2017

Version No. 4

Reviewed on 03/20/2017

Trade name: UZIN NC 888

(Contd. of page 3)

- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in dry conditions.  
Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**CAS: 7778-18-9 Calcium sulphate (gypsum)**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction

**CAS: 65997-15-1 Portland cement**

PEL	Long-term value: 50 mppcf or 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 1* mg/m <sup>3</sup> E; *as respirable fraction

**CAS: 14808-60-7 Quartz (crystalline silica)**

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Prevent formation of dust.  
Wear suitable protective clothing, gloves and eye/face protection.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
When mixing wear suitable NIOSH-approved dust respirator.  
Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment (e.g. NIOSH-approved dust respirator).
- **Protection of hands:**



Use nitrile impregnated cotton-gloves

- **Material of gloves** Nitrile impregnated cotton-gloves

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Trade name: UZIN NC 888

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- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

· <b>Form:</b>	Solid
· <b>Color:</b>	Gray
· <b>Odor:</b>	Light
· <b>Odor threshold:</b>	Not determined.

· **pH-value at 20 °C (68 °F):** 11

#### · Change in condition

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

#### · Ignition temperature:

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure:** Not applicable.

· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

#### · Solubility in / Miscibility with

· <b>Water:</b>	Insoluble. Sets with water.
-----------------	--------------------------------

· **Partition coefficient (n-octanol/water):** Not determined.

#### · Viscosity:

· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable.

· **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **Specific symptoms in biological assay:**

· **Primary route(s) of entry:** Inhalation, skin contact, eye contact.

· **Primary irritant effect:**

· **on the skin:** Slightly irritant effect may occur.

· **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:**

No sensitizing effects known.

Low in Chromate (< 2 ppm) acc. Regulation (EC) No 1907/2006 (REACH).

· **Subacute to chronic toxicity:**

Respirable crystalline silica (quartz) may cause a severe lung disease named silicosis. Symptoms of silicosis may be a shortness of breath, fever or cough. Silicosis is reported to increase the risk of carcinogenicity caused by continuous inhalation of respirable crystalline silica. Though the product itself contains less than 0.1% of respirable crystalline silica, respirable silica may be generated from working procedures such as grinding e.g. In general, inhalation of silica dust should be avoided. Therefore, for your own safety wear a suitable NIOSH-approved respirator in all occasions when handling of the product generates dust.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for mixtures:  
Corrosive

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7	Quartz (crystalline silica)	I
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· **NTP (National Toxicology Program)**

CAS: 14808-60-7	Quartz (crystalline silica)	K
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 1A

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Do not allow product to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

US

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# Safety Data Sheet

## acc. to OSHA HCS

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Reviewed on 03/20/2017

Trade name: UZIN NC 888

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Do not allow product to reach sewage system.  
Mix product residues with water, allow to harden, then dispose of as construction waste.
- **Uncleaned packagings:**
- **Recommendation:** Empty paper packaging is recyclable.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · DOT, ADR, ADN, IMDG, IATA  | Void            |
| · UN proper shipping name  |                 |
| · DOT, ADR, ADN, IMDG, IATA  | Void            |
| · DOT, ADN, IMDG, IATA   |                 |
| · Class  | Void            |
| · DOT, IMDG, IATA  | Void            |
| · Environmental hazards:   |                 |
| · Marine pollutant:  | No              |
| · Special precautions for user   | Not applicable. |
| · Transport/Additional information: Not regulated as hazardous material according to the above specifications. |                 |
| · UN "Model Regulation":   | Void            |

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)
- EPCRA Section 302 (Extremely Hazardous Substances):  
None of the ingredient is listed.
- SARA Title III Section 313 (Toxic Release Inventory - TRI):  
None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):  
All ingredients are listed.
- Proposition 65 (California)
- Chemicals known to cause cancer:  
Crystalline silica (quartz) is classified as a substance known to the State of California to be a carcinogen.  
CAS: 14808-60-7 | Quartz (crystalline silica)
- Chemicals known to cause reproductive toxicity for females:  
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:  
None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:  
None of the ingredients is listed.
- Cancerogenity categories
- EPA (Environmental Protection Agency)  
None of the ingredients is listed.

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**Trade name: UZIN NC 888**

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· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
CAS: 14808-60-7 Quartz (crystalline silica)	A2

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
CAS: 14808-60-7 Quartz (crystalline silica)	

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS05, GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Portland cement

Quartz (crystalline silica)

- **Hazard statements**

Causes serious eye damage.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

Obtain special instructions before use.

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not handle until all safety precautions have been read and understood.

IF ON SKIN: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:**

Mr. Petras Kruopys

petras.kruopys@uzin-utz.com

- **Date of preparation / last revision** 03/20/2017 / 3

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 03/20/2017

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**Trade name: UZIN NC 888***Carc. 1A: Carcinogenicity – Category 1A**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1***· \* Data compared to the previous version altered.**

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US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/24/2015

Version No. 5

Reviewed on 03/24/2015

## 1 Identification

- **Trade name:** UZIN PE 260
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Multipurpose Primer
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Manufacturer:  
 UZIN UTZ AG  
 Dieselstrasse 3  
 D-89079 Ulm  
 Germany  
 Tel.: +49 (0)731 4097-0  
 Fax: +49 (0)731 4097-110  
  
 Supplier:  
 UFLOOR Systems Inc.  
 14509 E. 33rd. Place, Unit G  
 Aurora, CO 80011  
 Phone: +720-374-4810  
 Toll-Free: +1 866-505-4810  
 Fax: +1 720-374-2113
- **Information department:**  
Product safety department  
email: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)
- **Emergency telephone number:**  
For Chemical Emergency Spill Leak Fire Exposure or Accident  
Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labeled due to the calculation procedure of international guidelines.

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and

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USA



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/24/2015

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Reviewed on 03/24/2015

Trade name: UZIN PE 260

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- Coatings Association (NPCA).
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**  
Dispersion Primer. Solvent-free, contains no liquid, organic compounds with a boiling-point < 200 °C (< 392 °F) or other hazardous ingredients per current OSHA regulations.
- **Dangerous components:** Void

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information:** Flash point : Not applicable

### \* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.

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USA



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Trade name: UZIN PE 260

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



PVC or PE gloves

- **Material of gloves** PVC or PE gloves
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	White
<b>Odor:</b>	Light
- **pH-value at 20 °C (68 °F):** 8
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.345 lbs/gal)
- **Solubility in / Miscibility with Water:** Dispersible.

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Trade name: UZIN PE 260

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- **Viscosity:**  
  - Dynamic at 20 °C (68 °F):** ca. 250 mPas (Brookfield RV 2, 20min-1)
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Skin contact, eye contact, ingestion.
- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritant effect.
- **Sensitization:** Sensitizing effect by skin contact is possible with prolonged exposure.
- **Additional toxicological information:**  
 The product is not subject to classification according to internally approved calculation methods for preparations.  
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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Trade name: UZIN PE 260

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· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **Waste treatment methods**· **Recommendation:**

Do not allow product to reach sewage system.

Absorb smaller quantities with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust), allow to harden, then dispose of as construction waste.

Dispose of bigger amounts in accordance with Local Authority requirements.

· **Uncleaned packagings:**· **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **DOT, ADR, ADN, IMDG, IATA** Void· **UN proper shipping name** -· **DOT, ADR, ADN, IMDG, IATA** Void· **DOT, ADN, IMDG, IATA**· **Class** Void· **DOT, IMDG, IATA** Void· **Environmental hazards:**· **Marine pollutant:** No· **Special precautions for user** Not applicable.· **Transport/Additional information:** Not regulated as hazardous material according to the above specifications.· **DOT**· **Remarks:** Not regulated under DOT.· **UN "Model Regulation":** -

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **SARA (Superfund Amendments and Reauthorization Act)**· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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Printing date 03/24/2015

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**Trade name: UZIN PE 260**

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**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements** Void

**· Hazard pictograms** Void

**· Signal word** Void

**· Hazard statements** Void

### \* 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Department issuing SDS:** Product safety department

**· Contact:**

USA: Daniel Gill, phone + 1 720-374-4810

Germany: Dr. Zieger, phone +49 731.409.7207

**· Date of preparation / last revision** 03/24/2015 / 4

**· Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

**· \* Data compared to the previous version altered.**

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/26/2017

Version No. 4

Reviewed on 04/26/2017

## 1 Identification

- **Trade name:** UZIN PE 280
- **Application of the substance / the mixture** Super-Fast Primer
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Manufacturer:  
 UZIN UTZ AG  
 Dieselstrasse 3  
 D-89079 Ulm  
 Germany  
 Tel.: +49 (0)731 4097-0  
 Fax: +49 (0)731 4097-110
- **Supplier:**  
 UFLOOR Systems Inc.  
 14509 E. 33rd. Place, Unit G  
 Aurora, CO 80011  
 Phone: +720-374-4810  
 Toll-Free: +1 866-505-4810  
 Fax: +1 720-374-2113
- **Information department:**  
 Product safety department  
 email: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)
- **Emergency telephone number:**  
 For Chemical Emergency Spill Leak Fire Exposure or Accident  
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
 International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
 The product is not classified according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**  
 NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.  
 NFPA is the National Fire Protection Association.  
 HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.  
 HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 04/26/2017

Version No. 4

Reviewed on 04/26/2017

Trade name: UZIN PE 280

(Contd. of page 1)

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

#### · Hazardous ingredients:

CAS: 14808-60-7	Quartz (crystalline silica)	 Carc. 1A, H350; STOT RE 1, H372	3 - < 8%
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#### · Additional information:

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets. This product contains crystalline silica (quartz sand) which has been classified by IARC as a Group 1 carcinogen (human carcinogen). Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. This product is used in liquid form only and therefore does not pose a dust hazard / carcinogen hazard during its use. However, respirable silica may be generated from working procedures such as grinding e.g. In general, inhalation of silica dust should be avoided. Therefore, for your own safety wear a suitable NIOSH-approved respirator in all occasions when handling of the product generates dust.

For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information:** Flash point : Not applicable

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

CAS: 14808-60-7 Quartz (crystalline silica)

PEL see Quartz listing

REL Long-term value: 0.05\* mg/m<sup>3</sup>  
\*respirable dust; See Pocket Guide App. ATLV Long-term value: 0.025\* mg/m<sup>3</sup>  
\*as respirable fraction

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**



PVC or PE gloves

- **Material of gloves** PVC or PE gloves

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- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

· <b>Form:</b>	Fluid
· <b>Color:</b>	Light brown
· <b>Odor:</b>	Light
· <b>Odor threshold:</b>	Not determined.

· **pH-value at 20 °C (68 °F):** 7.5-8.5

#### · Change in condition

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

#### · Ignition temperature:

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 1 g/cm<sup>3</sup> (8.345 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

#### · Solubility in / Miscibility with

· **Water:** Dispersible.

· **Partition coefficient (n-octanol/water):** Not determined.

#### · Viscosity:

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

· **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Skin contact, eye contact, ingestion.

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**

This product contains crystalline silica (quartz sand) which has been classified by IARC as a Group 1 carcinogen (human carcinogen). Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. This product is used in liquid form only and therefore does not pose a dust hazard / carcinogen hazard during its use. However, respirable silica may be generated from working procedures such as grinding e.g. In general, inhalation of silica dust should be avoided. Therefore, for your own safety wear a suitable NIOSH-approved respirator in all occasions when handling of the product generates dust.

- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7	Quartz (crystalline silica)	I
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- **NTP (National Toxicology Program)**

CAS: 14808-60-7	Quartz (crystalline silica)	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.
------------------------------------

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

*Do not allow product to reach sewage system.*

*Absorb smaller quantities with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust), allow to harden, then dispose of as construction waste.*

*Dispose of bigger amounts in accordance with Local Authority requirements.*

- **Uncleaned packagings:**

- **Recommendation:**

*Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **DOT, ADR, ADN, IMDG, IATA** Void

- **UN proper shipping name** -

- **DOT, ADR, ADN, IMDG, IATA** Void

- **DOT, ADN, IMDG, IATA**

- **Class** Void

- **DOT, IMDG, IATA** Void

- **Environmental hazards:**

- **Marine pollutant:** No

- **Special precautions for user** Not applicable.

- **Transport/Additional information:** Not regulated as hazardous material according to the above specifications.

- **DOT**

- **Remarks:** Not regulated under DOT.

- **UN "Model Regulation":** Void

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **SARA (Superfund Amendments and Reauthorization Act)**

- **EPCRA Section 302 (Extremely Hazardous Substances):**

*None of the ingredient is listed.*

- **SARA Title III Section 313 (Toxic Release Inventory - TRI):**

*None of the ingredients is listed.*

- **TSCA (Toxic Substances Control Act):**

*All ingredients are listed.*

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

CAS: 14808-60-7 Quartz (crystalline silica)

- **Chemicals known to cause reproductive toxicity for females:**

*None of the ingredients is listed.*

- **Chemicals known to cause reproductive toxicity for males:**

*None of the ingredients is listed.*

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**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

CAS: 14808-60-7 Quartz (crystalline silica)

A2

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 14808-60-7 Quartz (crystalline silica)

· **GHS label elements** Void· **Hazard pictograms** Void· **Signal word** Void· **Hazard statements** Void

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Department issuing SDS:** Product safety department

**· Contact:**

USA: Daniel Gill, phone + 1 720-374-4810

Germany: Dr. Zieger, phone +49 731.409.7207

**· Date of preparation / last revision** 04/26/2017 / 3

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Carc. 1A: Carcinogenicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

**· \* Data compared to the previous version altered.**

US

# Safety Data Sheet

acc. to OSHA HCS

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Version No. 5

Reviewed on 04/08/2015

## 1 Identification

- **Trade name:** UZIN PE 460 Comp. A
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2-Component Epoxy Primer (Component A)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Manufacturer:  
 UZIN UTZ AG  
 Dieselstrasse 3  
 D-89079 Ulm  
 Germany  
 Tel.: +49 (0)731 4097-0  
 Fax: +49 (0)731 4097-110  
  
 Supplier:  
 UFLOOR Systems Inc.  
 14509 E. 33rd. Place, Unit G  
 Aurora, CO 80011  
 Phone: +720-374-4810  
 Toll-Free: +1 866-505-4810  
 Fax: +1 720-374-2113
- **Information department:**  
 Product safety department  
 email: msds.info@uzin-utz.com
- **Emergency telephone number:**  
 For Chemical Emergency Spill Leak Fire Exposure or Accident  
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
 International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irrit. 2A      H319 Causes serious eye irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.

- **Information concerning particular hazards for human and environment:**  
 The product has to be labeled due to the calculation procedure of international guidelines.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS07, GHS09

- **Signal word** Warning

- **Hazard-determining components of labeling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight  $\leq 700$ )  
 1,6-Hexanediol diglycidyl ether

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Trade name: **UZIN PE 460 Comp. A**

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1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

- **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

- **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** 2-Component Epoxy Primer (Component A)

- **Dangerous components:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight $\leq 700$ ) ☒ Xi R36/38-43; ☒ N R51/53 ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-75%
16096-31-4	1,6-Hexanediol diglycidyl ether ☒ Xi R36/38-43 R52/53 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; H402; Aquatic Chronic 3, H412	25-50%
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane ☒ Xi R38-43 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	5 - <10%

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· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Indication of any immediate medical attention and special treatment needed**  
Also observe SDS of component B.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information:** Flash point: > 100 °C (> 212°F).

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**  
Wear suitable protective clothing, gloves and eye/face protection.  
Immediately remove all soiled and contaminated clothing.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.

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- Protect from humidity and water.
- Protect from frost.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing.  
Wear suitable protective clothing, gloves and eye/face protection.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary. Ensure that room is well-ventilated during processing.
- **Protection of hands:**



Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.5$  mm
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Color:	Yellowish
Odor:	Weak, characteristic
Odour threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:**  $> 100$  °C ( $> 212$  °F)

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· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.1 g/cm <sup>3</sup> (9.18 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C (68 °F):</b>	400 mPas
· <b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

## \* 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
May produce violent reactions with bases and numerous organic substances including alcohols and amines.  
Exothermic polymerization.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Irritant gases/vapors  
At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

## \* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Inhalation, skin contact, eye contact, ingestion.
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

The product contains materials that are harmful to the environment.

Do not allow product to reach ground water, water course or sewage system.

Disposal should be in accordance with local, state or national legislation.

- **Uncleaned packagings:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### 14 Transport information

- **DOT, ADR, IMDG, IATA** UN3082

- **UN proper shipping name**

- **DOT**

Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ ))

- **ADR**

3082 Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ ))

- **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )), MARINE POLLUTANT

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· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ ))

· **DOT**

· **Class** 9 Miscellaneous dangerous substances and articles  
· **Label** 9

· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles  
· **Label** 9  
· **DOT, IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** Yes  
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user** Warning: Miscellaneous dangerous substances and articles

· **EMS Number:** F-A,S-F

· **UN "Model Regulation":** UN3082, Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-epoxy resin (average molecular weight  $\leq 700$ )), 9, III

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
· **SARA (Superfund Amendments and Reauthorization Act)**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

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# Safety Data Sheet

## acc. to OSHA HCS

Printing date 04/08/2015

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**Trade name: UZIN PE 460 Comp. A**

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- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS07, GHS09

- **Signal word** Warning

- **Hazard-determining components of labeling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (with an average molecular weight  $\leq 700$ )

1,6-Hexanediol diglycidyl ether

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

- **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

If on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Recommended restriction of use** For professional use only.

- **Department issuing SDS:** Product safety department

- **Contact:**

USA: Daniel Gill, phone + 1 720-374-4810

Germany: Dr. Zieger, phone +49 731.409.7207

- **Date of preparation / last revision** 04/08/2015 / 4

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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USA

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**Trade name: UZIN PE 460 Comp. A**

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*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**: Hazardous to the aquatic environment - Acute Hazard, Category 3**Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3***· \* Data compared to the previous version altered.**

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/08/2015

Version No. 5

Reviewed on 04/08/2015

## 1 Identification

- **Trade name:** UZIN PE 460 Comp. B
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** For professional use only.
- **Application of the substance / the mixture** 2-Component Epoxy Primer (Component B)
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Manufacturer:  
 UZIN UTZ AG  
 Dieselstrasse 3  
 D-89079 Ulm  
 Germany  
 Tel.: +49 (0)731 4097-0  
 Fax: +49 (0)731 4097-110
- Supplier:  
 UFLOOR Systems Inc.  
 14509 E. 33rd. Place, Unit G  
 Aurora, CO 80011  
 Phone: +720-374-4810  
 Toll-Free: +1 866-505-4810  
 Fax: +1 720-374-2113
- **Information department:**  
 Product safety department  
 email: msds.info@uzin-utz.com
- **Emergency telephone number:**  
 For Chemical Emergency Spill Leak Fire Exposure or Accident  
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
 International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1A      H314 Causes severe skin burns and eye damage.

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1      H317 May cause an allergic skin reaction.

- **Information concerning particular hazards for human and environment:**  
 The product has to be labeled due to the calculation procedure of international guidelines.

- **Label elements**
- **GHS label elements**  
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS05, GHS07, GHS09

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# Safety Data Sheet

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Trade name: **UZIN PE 460 Comp. B**

(Contd. of page 1)

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Alkylated poly-aza-alkanes

*m*-Phenylene bis(methylamine), reaction products

· **Hazard statements**

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**If skin irritation or rash occurs:** Get medical advice/attention.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

**If eye irritation persists:** Get medical advice/attention.

**If swallowed:** Rinse mouth. Do NOT induce vomiting.

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*3

Fire = 1

Reactivity = 0

· **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** 2-Component Epoxy Primer (Component B)

· **Dangerous components:**

Alkylated poly-aza-alkanes C R34; Xi R43 Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	75-100%
<i>m</i> -Phenylene bis(methylamine), reaction products C R35; Xn R22-48/22; Xi R43; N R50/53 Acute Tox. 3, H301; STOT RE 2, H373; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	5 - <10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

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Trade name: UZIN PE 460 Comp. B

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## 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information:** Flash point: > 100 °C (> 212°F).

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling**  
Wear suitable protective clothing, gloves and eye/face protection.  
Immediately remove all soiled and contaminated clothing.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from frost.

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Trade name: UZIN PE 460 Comp. B

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· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wear suitable protective clothing, gloves and eye/face protection.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not necessary. Ensure that room is well-ventilated during processing.· **Protection of hands:**

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Fluid**Color:** Yellowish· **Odor:** Fish-like· **Odour threshold:** Not determined.· **pH-value at 20 °C (68 °F):** 11· **Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Undetermined.· **Flash point:**  $> 100$  °C ( $> 212$  °F)· **Flammability (solid, gaseous):** Not applicable.

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Trade name: **UZIN PE 460 Comp. B**

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· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.03 g/cm <sup>3</sup> (8.595 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C (68 °F):</b>	500 mPas
· <b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Strong exothermic reaction with acids.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Corrosive gases/vapors  
At elevated temperatures hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke or nitric oxids may be evolved.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Inhalation, skin contact, eye contact, ingestion.
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Corrosive

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Trade name: **UZIN PE 460 Comp. B**

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.  
Toxic for aquatic organisms  
Also poisonous for fish and plankton in water bodies.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

The product contains materials that are harmful to the environment.  
Do not allow product to reach ground water, water course or sewage system.  
Disposal should be in accordance with local, state or national legislation.

- **Uncleaned packagings:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### 14 Transport information

- **DOT, ADR, IMDG, IATA** UN2735

- **UN proper shipping name**

- **DOT** Polyamines, liquid, corrosive, n.o.s. (Alkylated poly-aza-alkanes)
- **ADR** 2735 Polyamines, liquid, corrosive, n.o.s. (Alkylated poly-aza-alkanes), ENVIRONMENTALLY HAZARDOUS
- **IMDG** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Alkylated poly-aza-alkanes), MARINE POLLUTANT

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Trade name: **UZIN PE 460 Comp. B**

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· **IATA** POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Alkylated poly-aza-alkanes)

· **DOT**

· **Class** 8 Corrosive substances  
 · **Label** 8

· **IMDG**

· **Class** 8 Corrosive substances  
 · **Label** 8

· **IATA**

· **Class** 8 Corrosive substances  
 · **Label** 8  
 · **DOT, IMDG, IATA** II

· **Environmental hazards:**

· **Marine pollutant:** Yes  
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Warning: Corrosive substances· **EMS Number:** F-A,S-B

· **UN "Model Regulation":** UN2735, Polyamines, liquid, corrosive, n.o.s. (Alkylated poly-aza-alkanes), ENVIRONMENTALLY HAZARDOUS, 8, II

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 · **SARA (Superfund Amendments and Reauthorization Act)**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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# Safety Data Sheet

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Printing date 04/08/2015

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**Trade name: UZIN PE 460 Comp. B**

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**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms GHS05, GHS07, GHS09**
**· Signal word Danger**
**· Hazard-determining components of labeling:**

Alkylated poly-aza-alkanes

*m*-Phenylene bis(methylamine), reaction products
**· Hazard statements**

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**· Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

If eye irritation persists: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Recommended restriction of use** For professional use only.

**· Department issuing SDS:** Product safety department

**· Contact:**

USA: Daniel Gill, phone + 1 720-374-4810

Germany: Dr. Zieger, phone +49 731.409.7207

**· Date of preparation / last revision** 04/08/2015 / 4

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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**Safety Data Sheet**  
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**Trade name: UZIN PE 460 Comp. B**

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*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*Acute Tox. 3: Acute toxicity, Hazard Category 3*  
*Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A*  
*Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B*  
*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*  
*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*  
*STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2*  
*Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1*  
*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*  
*Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2*

**. \* Data compared to the previous version altered.**

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/16/2015

Version No. 2

Reviewed on 04/16/2015

## 1 Identification

- **Trade name:** Uzin RR 201
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Article category** Article without release of chemical substances.
- **Application of the substance / the mixture** Glass fibre renovation felt
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - Manufacturer:
  - UZIN UTZ AG
  - Dieselstrasse 3
  - D-89079 Ulm
  - Germany
  - Tel.: +49 (0)731 4097-0
  - Fax: +49 (0)731 4097-110
- **Supplier:**
  - UFLOOR Systems Inc.
  - 14509 E. 33rd. Place, Unit G
  - Aurora, CO 80011
  - Phone: +720-374-4810
  - Toll-Free: +1 866-505-4810
  - Fax: +1 720-374-2113
- **Information department:**
  - Product safety department
  - email: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)
- **Emergency telephone number:**
  - For Chemical Emergency Spill Leak Fire Exposure or Accident
  - Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300
  - International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - The product is not classified according to the Globally Harmonized System (GHS).
- **Information concerning particular hazards for human and environment:**
  - The product does not have to be labeled due to the calculation procedure of international guidelines.

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
  - Contains fibre glass, which may cause irritations to skin (itching). Also observe section 8 (protection of hands).
  - NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.
  - NFPA is the National Fire Protection Association.

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USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 04/16/2015

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**Trade name: Uzin RR 201**

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*HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.*

*HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).*

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
65997-17-3 Fibrous Glass
- **EC number:** 266-046-0
- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Void

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** In case of persistent irritation, obtain medical advice.
- **After swallowing:** Seek immediate medical advice.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None known
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** No special measures required.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**  
Avoid contact with the eyes and skin.

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- Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in dry conditions.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Avoid contact with the eyes and skin.  
Vacuum clean contaminated clothing. Do not blow or brush off contamination.  
Do not eat or drink while working.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**



PVC or PE gloves

- **Material of gloves** PVC or PE gloves
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Use working clothes, barrier cream and protective gloves (rubber, PVC).

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Solid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Product is not flammable.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Not determined.

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- |  |  |
|--|--|
| <b>· Solubility in / Miscibility with Water:</b> | Insoluble.                                 |
| <b>· Solvent content:</b>                        |  |
| <b>· Solids content:</b>                         | 100.0 %                                    |
| <b>· Other information</b>                       | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Inhalation, skin contact, eye contact.
- **Primary irritant effect:**
- **on the skin:** Slightly irritant effect may occur.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**

<b>· IARC (International Agency for Research on Cancer)</b>
---

None of the ingredients is listed.
------------------------------------

<b>· NTP (National Toxicology Program)</b>
--

None of the ingredients is listed.
------------------------------------

<b>· OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
--

None of the ingredients is listed.
------------------------------------

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Continuous filament glass fibres have diameters greater than 3 microns. These fibres therefore have diameters above the respirable range of 3 microns. Even during the work process the fibres have a length (l) larger than 5 microns and a l/d- ratio larger than or equal to 3. The fibres are thus not carcinogenic.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Not applicable.
- **Bioaccumulative potential** No further relevant information available.

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- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
- **Uncleaned packagings:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packaging may be recycled or can be disposed of.

## 14 Transport information

- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name** -
- **DOT, ADR, ADN, IMDG, IATA** Void
- **DOT, ADN**
- **Class** Void
- **IMDG, IATA**
- **Class** Void
- **DOT, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport/Additional information:** Not regulated as hazardous material according to the above specifications.
- **UN "Model Regulation":** -

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA (Superfund Amendments and Reauthorization Act)**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing SDS:** Product safety department

· **Contact:**

USA: Daniel Gill, phone + 1 720-374-4810

Germany: Dr. Zieger, phone +49 731.409.7207

· **Date of preparation / last revision** 04/16/2015 / 1

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

· **\* Data compared to the previous version altered.**

USA

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**SECTION 1. IDENTIFICATION**

Product name : XL 2000 GRID SET GREEN ADH

Product code : F000000708

**Manufacturer or supplier's details**

Company name of supplier : XL Brands, LLC

Address : 198 Nexus Drive  
Dalton GA 30721

Telephone : (800) 367-4583

Telefax : (800) 547-0098

Emergency telephone number : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-  
1300 Danny Welch (ehs@trcc.com)

---

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

Not a hazardous substance or mixture.

**Other hazards**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:  
93.6781 %

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

No hazardous ingredients

---

**SECTION 4. FIRST AID MEASURES**

If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Oxygen or artificial respiration if needed.  
Call a physician or poison control centre immediately.

In case of skin contact : Wash off immediately with soap and plenty of water while  
removing all contaminated clothes and shoes.  
If skin irritation persists, call a physician.

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In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Seek medical advice.

If swallowed : Do not induce vomiting without medical advice.  
If conscious, drink plenty of water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : None known.

---

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder  
Water mist

Specific hazards during fire-fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Material can create slippery conditions.  
Use non-slip safety shoes in areas where spills or leaks can occur.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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Do not let product enter drains.  
Do not allow contact with soil, surface or ground water.  
Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel.  
Pick up and transfer to properly labelled containers.  
Clean contaminated floors and objects thoroughly while observing environmental regulations.

---

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : The product is not flammable. No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Handle with care.  
Take care to avoid waste and spillage when weighing, loading and mixing the product.

Conditions for safe storage : No smoking.  
Keep in properly labelled containers.  
Observe label precautions.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.

Recommended storage temperature : 4 - 43 °C

---

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure

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limit they must use appropriate certified respirators.  
Use NIOSH approved respiratory protection.

Hand protection	
Material	: Impervious gloves
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles Face-shield
Skin and body protection	: Chemical resistant apron Footwear protecting against chemicals Skin should be washed after contact. Change working clothes after each workshift.
Protective measures	: Avoid contact with skin. When using do not eat, drink or smoke. Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	: Do not smoke. Keep away from food and drink. Avoid contact with skin, eyes and clothing. Change working clothes after each workshift. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: green
Odour	: mild, characteristic
pH	: 7.0 - 9.0
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 212 °F
Vapour pressure	: No data available
Density	: 960 - 1,060 kg/m <sup>3</sup>

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Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : Not applicable

Partition coefficient: n-octanol/water : No data available

Explosive properties : Not applicable

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Possibility of hazardous reactions : Stable under recommended storage conditions.

Conditions to avoid : Protect from frost.

Incompatible materials : Oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

**Skin corrosion/irritation****Product:**

Remarks: This information is not available.

**Serious eye damage/eye irritation****Product:**

Remarks: This information is not available.

**Respiratory or skin sensitisation****Product:**



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Remarks: This information is not available.

**Carcinogenicity****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other :  
aquatic invertebrates :  
Remarks: No data available

Toxicity to algae :  
Remarks: No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Can be landfilled or incinerated, when in compliance with local regulations.

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Contaminated packaging : Clean container with water.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulation

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

#### 49 CFR

Not regulated as a dangerous good

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## SECTION 15. REGULATORY INFORMATION

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# SAFETY DATA SHEET

## XL 2000 GRID SET GREEN ADH

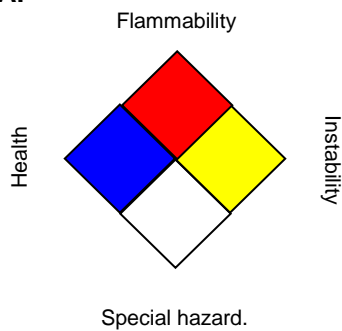


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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 06/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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