SAFETY DATA SHEET

Issuing Date  27-Oct-2014
Revision Date  15-Oct-2014
Revision Number  2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
COMPANY/UNDERTAKING

Product identifier

Product SDS Name  Epoxy Putty Stick – Under Water Cure
J-B Weld FG SKU Part Numbers Covered
8277, 8277A, 8277H, 8277F, 7277
J-B Weld Product Names Covered
WaterWeld™ (all sizes)

J-B Weld Product Type
Epoxy Putty Stick

Recommended use of the chemical and restrictions on use

Recommended Use  Adhesive & Repair / Automotive / Household Marine & Plumbing Repairs
Uses advised against  No information available

Details of the supplier of the safety data sheet

Supplier Name  J-B WELD COMPANY, LLC
Supplier Address  1130 COMO ST
                 SULPHUR SPRINGS, TX 75482
                 USA

Emergency Telephone Numbers  Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):
                              800-424-9300 or 703-527-3887
                              Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical
                              response info): 800-222-1222
Supplier Email  info@jbweld.com
Supplier Phone Number  903-885-7696

2. HAZARDS IDENTIFICATION

OSHA/HCS status  This material is considered hazardous by the OSHA Hazard Communication
Classification of the substance or mixture

SKIN CORROSION / IRRITATION – Category 2
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 2B
SKIN SENSITIZATION – Category 1

GHS label elements

Hazard pictograms

![Warning symbol]

Signal word

Warning!

Hazard statements

Causes skin and eye irritation.
May cause an allergic skin reaction.

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. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash 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.

Storage

Not applicable.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ingredient name</strong></td>
<td><strong>% by weight</strong></td>
</tr>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin</td>
<td>10-30</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>10-30</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>1-5</td>
</tr>
<tr>
<td>crystalline silica non-respirable</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc, not containing asbestiform fibres</td>
<td>14807-95-6</td>
<td>30-60</td>
</tr>
<tr>
<td>Nepheline syenite</td>
<td>37244-96-5</td>
<td>10-30</td>
</tr>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin</td>
<td>25068-38-6</td>
<td>10-30</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>13463-67-7</td>
<td>10-30</td>
</tr>
<tr>
<td>glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>5-10</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>90-72-2</td>
<td>1-5</td>
</tr>
<tr>
<td>crystalline silica non-respirable</td>
<td>14808-60-7</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>
Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of necessary first aid measure

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

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

Inhalation
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure

Skin contact
Causes skin irritation. May cause an allergic skin reaction.

Eye contact
Causes serious eye irritation

Ingestion
Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Inhalation
No specific data.

Skin contact
Adverse symptoms may include the following:
irritation
redness
Eye contact

Adverse symptoms may include the following:
pain or irritation
watering
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.

See toxicological information (Section 11)

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### 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**

No specific fire or explosion hazard.

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**National Fire Protection Association (U.S.A.)**

**Flammability**

1

**Health**

2

**Instability/Reactivity**

0

**Special**

**Hazardous thermal decomposition products**

Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Nitrogen oxides
Sulfur oxides
Halogenated compounds
Metal oxide/oxides

**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 a positive pressure mode.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Avoid generation of dust. Do not breathe dust. Evacuate personnel to safe areas.

Other Information
Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities
Do not store above the following temperature: 35°C (95°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.

Precautions for safe handling

Protective measure
Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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 measure.
### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS #</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>13463-67</td>
<td>ACGIH TLV (United States, 3/2012). TWA: 10 mg/m³ 8 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL 1989 (United States, 3/1989) TWA: 10 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL (United States, 6/2010). TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
<tr>
<td>crystalline silica non-respirable</td>
<td>14808-60-7</td>
<td>OSHA PEL Z3 (United States, 9/2005). Notes: 250/(%SiO2+5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 250 MPPCF/(%SiO2+5) 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL Z3 (United States, 9/2005). Notes: 10/(SiO2+2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 10 mg/m³/(%SiO2+2) 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV (United States, 3/2012) TWA: 0.025 mg/m³ 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL (United States, 1/2013) TWA: 0.05 mg/m³ 10 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL Z3 (United States, 9/2005). Notes: 30/(%SiO2+2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 10 mg/m³/(%SiO2+2) 8 hours. Form: Total Dust</td>
</tr>
</tbody>
</table>

#### Canada

<table>
<thead>
<tr>
<th>Occupational exposure limits</th>
<th>TWA (8 hours)</th>
<th>STEL (15 mins)</th>
<th>Ceiling</th>
<th>Notations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient</td>
<td>List name</td>
<td>ppm</td>
<td>mg/m³</td>
<td>Other ppm</td>
</tr>
<tr>
<td>Talc, not containing asbestiform fibres</td>
<td>AB 4/2009</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>BC 4/2012</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>ON 1/2013</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>QC 12/2012</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>US ACGIH 3/2012</td>
<td>-</td>
<td>5</td>
<td>-</td>
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<tr>
<td></td>
<td>US ACGIH 3/2012</td>
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<td>5</td>
<td>-</td>
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<tr>
<td></td>
<td>AB 4/2009</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>BC 4/2012</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>ON 1/2013</td>
<td>-</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>QC 12/2012</td>
<td>-</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>glass, oxide, chemicals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>QC 12/2012</td>
<td>-</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>crystalline silica non-respirable</td>
<td>US ACGIH 3/2012</td>
<td>-</td>
<td>0.025</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>BC 4/2012</td>
<td>-</td>
<td>0.025</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>ON 1/2013</td>
<td>-</td>
<td>0.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>QC 12/2012</td>
<td>-</td>
<td>0.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>ON 1/2013</td>
<td>-</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Nepheline syenite</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Form: [a]Respirable particulate [b]Respirable [c]Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a
particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency. [d]The value is for particulate matter containing no asbestos and < 1 per cent crystalline silica. [e]Respirable dust. [f]Inhalable fraction [g]Respirable fibers: length greater than 5 µm; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination. [h]Fibres [i]Fibres, total particulate [j]Inhalable [k]Fiber [l]Inhalable fraction: means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 100 µm at 50 per cent collection efficiency. [m]Respirable fibres: length > 5µm: aspect ratio ≥3:1, as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination. [n]RESPIRABLE FIBRES (other than respirable asbestos fibres): Objects, other than respirable asbestos fibres, longer than 5 µm, having a diameter of less than 3 µm and a ratio of length to diameter of more than 3 :1. [o]Total dust. [p]Respirable fraction [q]Total dust

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

Use a properly fitted, particulate filter 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.

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.

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.

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.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical and Chemical Properties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White</td>
<td>Odor</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>Pungent. Sulfurous</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>

#### Physical Properties

- **pH**: No data available
- **Melting / freezing point**: No data available
- **Boiling point / boiling range**: No data available
- **Flash Point**: Closed cup: >93°C
- **Evaporation Rate**: No data available
- **Flammability (solid, gas)**: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
  - Upper flammability limit: No data available
  - Lower flammability limit: No data available
- **Vapor pressure**: No data available
- **Vapor density**: 1.937
- **Specific Gravity**: 2.25
- **Water Solubility**: Insoluble in water
- **Solubility in other solvents**: No data available
- **Partition coefficient: n-octanol/water**: No data available
- **Autoignition temperature**: >200°C
- **Decomposition temperature**: >200°C
- **Kinematic viscosity**: No data available
- **Dynamic viscosity**: No data available
- **Explosive properties**: No data available
- **Oxidizing Properties**: No data available
- **Softening Point**: No data available
- **VOC Content (%)**: 0
- **Particle Size**: No data available
- **Particle Size Distribution**: No data available

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.
Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Excessive heat.

Incompatible materials

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity

<table>
<thead>
<tr>
<th>Product / ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris (dimethylaminomethyl)phenol</td>
<td>LD 50 Dermal</td>
<td>Rat</td>
<td>1280 mg/kg</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD 50 Oral</td>
<td>Rat</td>
<td>1200 mg/kg</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin</td>
<td>Eyes – Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin – Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 microliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin – Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>Skin – Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>72 hours 300 micrograms</td>
<td>-</td>
</tr>
<tr>
<td>2,4,6-tris (dimethylaminomethyl)phenol</td>
<td>Eyes-Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 50 micrograms</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin – Mild irritant</td>
<td>Rat</td>
<td>-</td>
<td>0.025 Milliliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin – Severe irritant</td>
<td>Rat</td>
<td>-</td>
<td>0.25 Milliliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin – Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 2 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization
No specific data.

Mutagenicity
No specific data.

Carcinogenicity
No specific data.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>-</td>
<td>2B</td>
<td></td>
</tr>
<tr>
<td>Crystalline silica non-respirable</td>
<td>-</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
</tbody>
</table>

Reproductive toxicity
No specific data.

Teratogenicity
No specific data.

Specific target organ toxicity (single exposure)
No specific data.

Specific target organ toxicity (repeated exposure)
No specific data.

Aspiration hazard
No specific data.

Information on the likely routes of exposure
Not available

Potential acute health effects
Eye contact
Causes serious eye irritation.

Inhalation
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact
Causes skin irritation. May cause an allergic skin reaction.
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 and 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**

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential delayed effects</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Long term exposure**

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential delayed effects</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Potential chronic health effects**

No specific data.

**General**

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity**

No known significant effects or critical hazards.

**Mutagenicity**

No known significant effects or critical hazards.

**Teratogenicity**

No known significant effects or critical hazards.

**Developmental effects**

No known significant effects or critical hazards.

**Fertility effects**

No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>2637.7 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>2813.6 mg/kg</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

**Toxicity**

<table>
<thead>
<tr>
<th>Product / ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>Acute LC50 1000000 µg/l</td>
<td>Marine water</td>
<td>96 hours</td>
</tr>
</tbody>
</table>
Persistence and degradability

No specific data.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product / Ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin</td>
<td>2.64 to 3.78</td>
<td>31</td>
<td>low</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>-</td>
<td>352</td>
<td>low</td>
</tr>
<tr>
<td>2,4,6-tris (dimethylaminomethyl)phenol</td>
<td>0.219</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) Not available

Other adverse effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

NOT REGULATED
NON REGULATED
Hazard Class | N/A
---|---
Marine Pollutant | This product contains a chemical which is listed as a marine pollutant according to DOT

**TDG**
Not regulated

**MEX**
Not regulated

**ICAO**
Not regulated

**IATA**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>NON REGULATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**IMDG/IMO**

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Pollutant</td>
<td>Product is a marine pollutant according to the criteria set by IMDG/IMO</td>
</tr>
</tbody>
</table>

**RID**
Not regulated

**ADR**
Not regulated

**ADN**
Not regulated

### 15. REGULATORY INFORMATION

**United States**

**U.S. Federal regulations**

| 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**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-5</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
</tr>
<tr>
<td>2,4,6-tris (dimethylaminomethyl)phenol</td>
<td>0.1-1</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
</tr>
<tr>
<td>crystalline silica non-respirable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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State regulations

Massachusetts
The following components are listed: SOAPSTONE; MINERAL WOOL FIBER, TITANIUM OXIDE

New York
None of the components are listed.

New Jersey
The following components are listed: SOAPSTONE, SILICA, QUARTZ; QUARTZ (SiO2); TITANIUM DIOXIDE, TITANIUM OXIDE (TiO2)

Pennsylvania
The following components are listed: SOAPSTONE DUST, QUARTZ (SiO2), TITANIUM OXIDE (TiO2)

Minnesota Hazardous Substances
None of the components are listed.

California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause cancer

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc, not containing asbestiform fibres</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Crystalline silica non-respirable</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

Canada

WHMIS (Canada)
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

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.

International regulations

International lists
Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): Not determined.
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): All components are listed or exempted.
Taiwan inventory (CSNN): Not determined.

Substances of very high concern
None of the components are listed.
16. OTHER INFORMATION

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
UN = United Nations

Notice to reader

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End of Safety Data Sheet