



# SAFETY DATA SHEET

Issuing Date 16-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 - Steel

### J-B Weld FG SKU Part Numbers Covered

8267S, 8217, 8267A, 8267H, 8267SF, 8267HF, 7267S

### J-B Weld Product Names Covered

SteelStik™ (all sizes)

AutoWeld™

### J-B Weld Product Type

Epoxy Putty Stick

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

Recommended Use                      Adhesive & Repair / Automotive / Household & 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](mailto: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 Standard (29-CFR 1910.1200).

**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



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

**Substance/mixture** Mixture

| Ingredient name                                             | % by weight | CAS number |
|-------------------------------------------------------------|-------------|------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 10-20       | 25068-38-6 |
| crystalline silica non-respirable                           | 0.1-1       | 14808-60-7 |

### Canada

| Name                                                        | CAS number | %     |
|-------------------------------------------------------------|------------|-------|
| Talc, not containing asbestiform fibres                     | 14807-96-6 | 30-60 |
| Ferrosilicon                                                | 8049-17-0  | 10-30 |
| glass, oxide, chemicals                                     | 65997-17-3 | 10-30 |
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 25068-38-6 | 10-20 |

|                                                        |                          |              |
|--------------------------------------------------------|--------------------------|--------------|
| Nepheline syenite<br>crystalline silica non-respirable | 37244-96-5<br>14808-60-7 | 1-5<br>0.1-1 |
|--------------------------------------------------------|--------------------------|--------------|

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 regular 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 | 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   | No known significant effects or critical hazards.            |
| 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:<br>irritation<br>redness |

|             |                                                                                          |
|-------------|------------------------------------------------------------------------------------------|
| Eye contact | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>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)

## 5. FIRE-FIGHTING MEASURES

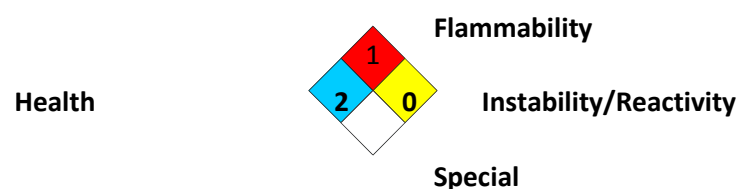
**Extinguishing media**

|                              |                                                               |
|------------------------------|---------------------------------------------------------------|
| 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. |
|--------------------------------------------|---------------------------------------|

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



|                                          |                                                                                                                                                                  |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous thermal decomposition products | Decomposition products may include the following materials:<br>Carbon dioxide<br>Carbon monoxide<br>Sulfur oxides<br>Halogenated compounds<br>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

|                                    |                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | If specialized 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".                                                                                                                                                           |
| <b>Environmental Precautions</b>   | 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 material for containment and cleaning up

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Small Spill</b> | Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.                                                                                                                                                                                         |
| <b>Large Spill</b> | Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled 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

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conditions for safe storage, including any incompatibilities</b> | 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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protective measure</b>                     | 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. |
| <b>Advice on general occupational hygiene</b> | 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

### Control parameters

### Occupational exposure limits

| Ingredient name                   | CAS #      | Exposure limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| crystalline silica non-respirable | 14808-60-7 | <b>OSHA PEL Z3 (United States, 9/2005). Notes: 250/(%SiO<sub>2</sub>+5)</b><br>TWA: 250 MPPCF / (%SiO <sub>2</sub> +5) 8 hours. Form: Respirable<br><b>OSHA PEL Z3 (United States, 9/2005). Notes: 10/(SiO<sub>2</sub>+2)</b><br>TWA: 10 MG/M3 / (%SiO <sub>2</sub> +2) 8 hours. Form: Respirable<br><b>ACGIH TLV (United States, 3/2012).</b><br>TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br><b>NIOSH REL (United States, 1/2013).</b><br>TWA: 0.05 mg/m <sup>3</sup> 10 hours. Form: respirable dust<br><b>OSHA PEL Z3 (United States, 9/2005). Notes: 30/(%SiO<sub>2</sub>+2)</b><br>TWA: 30 MG/M3 / (%SiO <sub>2</sub> +2) 8 hours. Form: Total dust. |

### Canada

| <u>Occupational exposure limits</u>      |                 | <u>TWA (8 hours)</u> |                       |          | <u>STEL (15 mins)</u> |                       |       | <u>Ceiling</u> |                       |       |           |
|------------------------------------------|-----------------|----------------------|-----------------------|----------|-----------------------|-----------------------|-------|----------------|-----------------------|-------|-----------|
| Ingredient                               | List name       | ppm                  | mg/<br>m <sup>3</sup> | Other    | ppm                   | mg/<br>m <sup>3</sup> | Other | ppm            | mg/<br>m <sup>3</sup> | Other | Notations |
| Talc , not containing asbestiform fibres | AB 4/2009       | -                    | 2                     | -        | -                     | -                     | -     | -              | -                     | -     | [a]       |
|                                          | BC 4/2012       | -                    | 2                     | -        | -                     | -                     | -     | -              | -                     | -     | [b]       |
|                                          | ON 1/2013       | -                    | -                     | 0.1 f/cc | -                     | -                     | -     | -              | -                     | -     | [c]       |
|                                          |                 | -                    | 2                     | -        | -                     | -                     | -     | -              | -                     | -     | [d]       |
|                                          |                 | -                    | 2                     | -        | -                     | -                     | -     | -              | -                     | -     | [e]       |
|                                          | QC 12/2012      | -                    | 3                     | 2 f/cc   | -                     | -                     | -     | -              | -                     | -     | [f]       |
|                                          | US ACGIH 3/2012 | -                    | 5                     | -        | -                     | -                     | -     | -              | -                     | -     | [g]       |
|                                          | US ACGIH 3/2012 | -                    | -                     | 1 f/cc   | -                     | -                     | -     | -              | -                     | -     | [h]       |
|                                          | AB 4/2009       | -                    | 5                     | 1 f/cc   | -                     | -                     | -     | -              | -                     | -     | [i]       |
|                                          | BC 4/2012       | -                    | 5                     | -        | -                     | -                     | -     | -              | -                     | -     | [j]       |
| glass, oxide, chemicals                  | ON 1/2013       | -                    | -                     | 1 f/cc   | -                     | -                     | -     | -              | -                     | -     | [k]       |
|                                          |                 | -                    | 10                    | -        | -                     | -                     | -     | -              | -                     | -     | [l]       |
|                                          |                 | -                    | 5                     | -        | -                     | -                     | -     | -              | -                     | -     | [m]       |
|                                          | QC 12/2012      | -                    | -                     | 1 f/cc   | -                     | -                     | -     | -              | -                     | -     | [n]       |
|                                          |                 | -                    | -                     | 1 f/cc   | -                     | -                     | -     | -              | -                     | -     | [o]       |
|                                          |                 | -                    | 10                    | -        | -                     | -                     | -     | -              | -                     | -     | [p]       |
|                                          | US ACGIH 3/2012 | -                    | 0.025                 | -        | -                     | -                     | -     | -              | -                     | -     | [q]       |
|                                          | BC 4/2012       | -                    | 0.025                 | -        | -                     | -                     | -     | -              | -                     | -     | [r]       |
|                                          | ON 1/2013       | -                    | 0.1                   | -        | -                     | -                     | -     | -              | -                     | -     | [s]       |
|                                          | QC 12/2012      | -                    | 0.1                   | -        | -                     | -                     | -     | -              | -                     | -     | [t]       |
| crystalline silica non-respirable        | ON 1/2013       | -                    | 10                    | -        | -                     | -                     | -     | -              | -                     | -     | [u]       |
|                                          |                 | -                    | 10                    | -        | -                     | -                     | -     | -              | -                     | -     | [v]       |
| Nepheline syenite                        | ON 1/2013       | -                    | 10                    | -        | -                     | -                     | -     | -              | -                     | -     | [w]       |
|                                          |                 | -                    | 10                    | -        | -                     | -                     | -     | -              | -                     | -     | [x]       |

**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

### Physical and Chemical Properties

|                                      |                                                                                       |                               |                     |
|--------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|---------------------|
| <b>Physical State</b>                | Solid                                                                                 |                               |                     |
| <b>Appearance</b>                    | Dark gray                                                                             | <b>Odor</b>                   | Pungent. Sulfurous. |
| <b>Color</b>                         | Dark Gray / Black                                                                     | <b>Odor Threshold</b>         | Not available.      |
| <b><u>Property</u></b>               | <b><u>Values</u></b>                                                                  | <b><u>Remarks/ Method</u></b> |                     |
| <b>pH</b>                            | No data available                                                                     | None known                    |                     |
| <b>Melting / freezing point</b>      | No data available                                                                     | None known                    |                     |
| <b>Boiling point / boiling range</b> | No data available                                                                     | None known                    |                     |
| <b>Flash Point</b>                   | Closed cup: .93.3°C (>199.9°F)<br>[Setaflash.] [Product does not sustain combustion.] | None known                    |                     |
| <b>Evaporation Rate</b>              | No data available                                                                     | None known                    |                     |
| <b>Flammability (solid, gas)</b>     | Flammable in the presence of the                                                      | None known                    |                     |
| <b>Flammability Limit in Air</b>     | following materials or conditions: open flames, sparks and static discharge.          |                               |                     |
| <b>Upper flammability limit</b>      | No data available                                                                     |                               |                     |
| <b>Lower flammability limit</b>      | No data available                                                                     |                               |                     |
| <b>Vapor pressure</b>                | No data available                                                                     | None known                    |                     |
| <b>Vapor density</b>                 | No data available                                                                     | None known                    |                     |
| <b>Specific Gravity</b>              | 2.247                                                                                 | None known                    |                     |
| <b>Water Solubility</b>              | No data available                                                                     | None known                    |                     |
| <b>Solubility in other solvents</b>  | No data available                                                                     | None known                    |                     |
| <b>Partition coefficient:</b>        |                                                                                       | None known                    |                     |
| <b>n-octanol/water</b>               | No data available                                                                     | None known                    |                     |
| <b>Auto-ignition temperature</b>     | No data available                                                                     | None known                    |                     |
| <b>Decomposition temperature</b>     | >200° C (>392°F)                                                                      | None known                    |                     |
| <b>Kinematic viscosity</b>           | No data available                                                                     | None known                    |                     |
| <b>Dynamic viscosity</b>             | No data available                                                                     |                               |                     |
| <b>Explosive properties</b>          | No data available                                                                     |                               |                     |
| <b>Oxidizing Properties</b>          | No data available                                                                     |                               |                     |
| <b><u>Other Information</u></b>      |                                                                                       |                               |                     |
| <b>Softening Point</b>               | No data available                                                                     |                               |                     |
| <b>VOC Content (%)</b>               | 0                                                                                     |                               |                     |
| <b>Particle Size</b>                 | No data available                                                                     |                               |                     |
| <b>Particle Size Distribution</b>    |                                                                                       |                               |                     |



## 10. STABILITY AND REACTIVITY

|                                                  |                                                                                                      |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b><u>Reactivity</u></b>                         | No specific test data related to reactivity available for this product or its ingredients.           |
| <b><u>Chemical stability</u></b>                 | The product is stable.                                                                               |
| <b><u>Possibility of hazardous reactions</u></b> | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b><u>Conditions to avoid</u></b>                | No specific data.                                                                                    |
| <b><u>Incompatible materials</u></b>             | No specific data.                                                                                    |
| <b><u>Hazardous decomposition products</u></b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11. TOXICOLOGICAL INFORMATION

### **Information on toxicological effects**

**Acute toxicity** No specific data.

### **Irritation/Corrosion**

| Product/ingredient name                                     | Result                   | Species | Score | Exposure                 | Observation |
|-------------------------------------------------------------|--------------------------|---------|-------|--------------------------|-------------|
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | Eyes – Mild irritant     | Rabbit  | -     | 100 milligrams           | -           |
|                                                             | Skin – Moderate irritant | Rabbit  | -     | 24 hours 500 microliters | -           |
|                                                             | Skin – Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams    | -           |

**Sensitization** No specific data.

**Mutagenicity** No specific data.

**Carcinogenicity** No specific data.

### **Classification**

| Product/ingredient name           | OSHA | IARC | NTP                             |
|-----------------------------------|------|------|---------------------------------|
| Crystalline silica non-respirable | -    | 1    | Known to be a human carcinogen. |

**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** No known significant effects or critical hazards.

**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:<br>irritation<br>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 |

##### 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

No specific data.

## 12. ECOLOGICAL INFORMATION

Toxicity No specific data.

Persistence and degradability No specific data.

##### Bioaccumulative potential

| Product / Ingredient name                                   | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------------------------------------------|--------------------|-----|-----------|
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 2.64 to 3.78       | 31  | low       |

##### 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

**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 material and runoff and contact with soil, waterways, drains and sewers.

**RCRA classification.**

Not available.

### 14. TRANSPORT INFORMATION

|                                   | <b>DOT<br/>Classification</b> | <b>TDG<br/>Classification</b> | <b>Mexico<br/>Classification</b> | <b>IMDG</b>    | <b>IATA</b>    |
|-----------------------------------|-------------------------------|-------------------------------|----------------------------------|----------------|----------------|
| <b>UN Number</b>                  | 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.            |
| <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.

### 15. REGULATORY INFORMATION

**United States**
**U.S. Federal regulations**

**TSCA 8(a) PAIR:** Siloxanes and Silicones, di-Me, reaction products with silica  
**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

| Name                                                                                           | %     | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|------------------------------------------------------------------------------------------------|-------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin crystalline silica non-respirable | 10-30 | No.         | No.                        | No.      | Yes.                            | No.                             |
|                                                                                                | 0.1-1 | No.         | No.                        | No.      | No.                             | Yes                             |

#### State regulations

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

New York None of the components are listed.

New Jersey The following components are listed: SOAPSTONE, SILICA, QUARTZ; QUARTZ (SiO<sub>2</sub>); FERROSILICON; FERROCERIUM

Pennsylvania The following components are listed: SOAPSTONE DUST, QUARTZ (SiO<sub>2</sub>)

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

| Ingredient Name                         | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------------------------------|--------|--------------|---------------------------|---------------------------------|
| Talc, not containing asbestiform fibres | Yes.   | No.          | No.                       | No.                             |
| Crystalline silica non-respirable       | Yes.   | No.          | No.                       | No.                             |
| Carbon black non-respirable             | Yes.   | No.          | No.                       | No.                             |

#### Canada

WHMIS (Canada) Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
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                    | <p><b>Australia inventory (AICS):</b> All components are listed or exempted.</p> <p><b>China inventory (IECSC):</b> Not determined.</p> <p><b>Japan inventory:</b> Not determined.</p> <p><b>Korea inventory:</b> All components are listed or exempted.</p> <p><b>Malaysia Inventory (EHS Register):</b> Not determined.</p> <p><b>New Zealand Inventory of Chemicals (NZIoC):</b> All components are listed or exempted.</p> <p><b>Philippines inventory (PICCS):</b> All components are listed or exempted.</p> <p><b>Taiwan inventory (CSNN):</b> Not determined.</p> |
| <u>Substances of very high concern</u> | None of the components are listed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## 16. OTHER INFORMATION

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Key to abbreviations | <p>ATE = Acute Toxicity Estimate</p> <p>BCF = Bioconcentration Factor</p> <p>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>IATA = International Air Transport Association</p> <p>IBC = Intermediate Bulk Container</p> <p>IMDG = International Maritime Dangerous Goods</p> <p>LogPow = logarithm of the octanol/water partition coefficient</p> <p>MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</p> <p>UN = United Nations</p> |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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End of Safety Data Sheet

