**Steel Reinforced Epoxy Hardener - Slow Cure - Twin Tube - Part B**

## SECTION 1: Identification

**Product identifier**

**Product name:** Steel Reinforced Epoxy Hardener - Slow Cure - Twin Tube - Part B

**Product code:** 8265, 8265S, 8265H, 8280, 8281, 8272

**Recommended use of the product and restriction on use**

**Relevant identified uses:** Adhesive Part B

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

**Manufacturer or supplier details**

**Manufacturer:**

**United States**

J-B Weld Company, LLC
400 CMH Road
Sulphur Springs, TX 75482
903-885-7696
info@jbweld.com

**Emergency telephone number:**

**United States**

InfoTrac
Transportation Emergencies (24 hour): 1-800-535-5053

## SECTION 2: Hazard(s) identification

**GHS classification:**

Serious eye damage, category 1
Skin sensitization, category 1
Specific target organ toxicity - repeated exposure, category 2
Skin irritation, category 2

**Label elements**

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:**

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.

**Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P270 Do not eat, drink or smoke when using this product.
P321 Specific treatment (see supplemental first aid instructions on this label).
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/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362 Take off contaminated clothing and wash before reuse
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P314 Get medical advice/attention if you feel unwell
P501 Dispose of contents and container in accordance with local regulations.

**Hazards not otherwise classified:** None

## SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|---|---|---|
| CAS number: 7727-43-7 | Barium Sulphate | <25 |
| CAS number: 68410-23-1 | Amine | <15 |
| CAS number: 135108-88-2 | Curing Agent | <10 |
| CAS number: 68953-36-6 | Curing Agent | <10 |
| CAS number: 14807-96-6 | Talc Powder | <10 |
| CAS number: 65997-17-3 | Fiberglass Powder | <2 |
| CAS number: 13463-67-7 | Titanium Dioxide | <2 |
| CAS number: 90-72-2 | Amine Mix | <2 |
| CAS number: 112-57-2 | Amine | <1 |
| CAS number: 100-51-6 | Diluent | <1 |
| CAS number: 112-24-3 | Amine | <1 |
| CAS number: 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | 0.3 |

**Additional Information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).
Fiberglass powder (CAS # 65997-17-3) is classified as a carcinogen in its inhalable form. Since the fiberglass powder in this product is not inhalable, the product itself is not classified as a carcinogen in the form presented.

## SECTION 4: First aid measures

### Description of first aid measures

**General notes:**

Not determined or not applicable.

**After inhalation:**

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

**After skin contact:**

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

**After eye contact:**

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist

**After swallowing:**

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

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

**Acute symptoms and effects:**

Skin contact may result in redness, pain, burning and inflammation
Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis
Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision

**Delayed symptoms and effects:**

Effects are dependent on exposure (dose, concentration, contact time)
May cause damage to organs through prolonged or repeated exposure

### Immediate medical attention and special treatment

**Specific treatment:**

Not determined or not applicable.

**Notes for the doctor:**

Treat symptomatically

## SECTION 5: Firefighting measures

**Extinguishing media**

**Suitable extinguishing media:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

**Unsuitable extinguishing media:**

Not determined or not applicable.

**Specific hazards during fire-fighting:**

Thermal decomposition can lead to release of irritating gases and vapors

**Special protective equipment for firefighters:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

**Special precautions:**

Not determined or not applicable.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

**Environmental precautions:**

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

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

Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

**Reference to other sections:**

Not determined or not applicable.

## SECTION 7: Handling and storage

**Precautions for safe handling:**

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

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

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|---|---|---|---|
| WEEL | Diluent | 100-51-6 | WEEL TWA 10.0 ppm |

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|---|---|---|---|
| | Amine | 112-57-2 | TWA 8-hr: 6.0 mg/m³; 1.0 ppm |
| | Amine | 112-24-3 | WEEL TWA 1.0 ppm |
| United States (OSHA) | Talc Powder | 14807-96-6 | OSHA PEL Ceiling 20 mppcf |
| | Titanium Dioxide | 13463-67-7 | OSHA PEL TWA 15 mg/m³ (Total dust) |
| | Barium Sulphate | 7727-43-7 | OSHA PEL TWA 15 mg/m³ (Total dust) |
| | Barium Sulphate | 7727-43-7 | OSHA PEL TWA 5 mg/m³ (Respirable fraction) |
| ACGIH | Barium Sulphate | 7727-43-7 | ACGIH TLV TWA 5.0 mg/m³ (inhalable fraction, particulate containing no asbestos and <1% crystalline silica) |
| | Talc Powder | 14807-96-6 | ACGIH TLV TWA 2 mg/m³; (Inhalable particulate matter containing no asbestos and < 1% crystalline silica) |
| | Titanium Dioxide | 13463-67-7 | ACGIH TLV TWA 10 mg/m³ |
| | Fiberglass Powder | 65997-17-3 | 8-Hour Exposure Limit (TLV-TWA): 1 fibers/cm³ |
| NIOSH | Barium Sulphate | 7727-43-7 | NIOSH TWA 5.0 mg/m³ (Respirable fraction) |
| | Talc Powder | 14807-96-6 | NIOSH REL TWA 2.0 mg/m³ |
| | Barium Sulphate | 7727-43-7 | NIOSH TWA 10.0 mg/m³ (Total dust) |
| | Titanium Dioxide | 13463-67-7 | IDLH: 5,000 mg/m³ |
| | Fiberglass Powder | 65997-17-3 | NIOSH Recommended exposure limit (REL) [for up to a 10-hour workday during a 40-hour workweek] is: 3 fibers/cm3 |

**Biological limit values:**

No biological exposure limits noted for the ingredient(s).

**Information on monitoring procedures:**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

**Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

**Personal protection equipment**

**Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

**Skin and body protection:**

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**General hygienic measures:**

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | White liquid |
| **Odor** | Amine-like |
| **Odor threshold** | Not determined or not available. |
| **pH** | Not determined or not available. |
| **Melting point/freezing point** | Not determined or not available. |
| **Initial boiling point/range** | Not determined or not available. |
| **Flash point (closed cup)** | Closed cup: >93.3 °C (>199.9 °F) [Setaflash.] [Product does not sustain combustion.] |
| **Evaporation rate** | Not determined or not available. |
| **Flammability (solid, gas)** | Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. |
| **Upper flammability/explosive limit** | Not determined or not available. |
| **Lower flammability/explosive limit** | Not determined or not available. |
| **Vapor pressure** | Not determined or not available. |
| **Vapor density** | Not determined or not available. |
| **Density** | Not determined or not available. |
| **Relative density** | 1.955 |
| **Solubilities** | Not determined or not available. |
| **Partition coefficient (n-octanol/water)** | Not determined or not available. |
| **Auto/Self-ignition temperature** | Not determined or not available. |
| **Decomposition temperature** | >220°C (>392°F) |
| **Dynamic viscosity** | Not determined or not available. |
| **Kinematic viscosity** | Not determined or not available. |
| **Explosive properties** | Not determined or not available. |
| **Oxidizing properties** | Not determined or not available. |

**Other information**

| | |
|---|---|
| **VOC Content** | <1% |

## SECTION 10: Stability and reactivity

**Reactivity:**

Does not react under normal conditions of use and storage.

**Chemical stability:**
Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**
None under normal conditions of use and storage.

**Conditions to avoid:**
None known.

**Incompatible materials:**
None known.

**Hazardous decomposition products:**
None known.

## SECTION 11: Toxicological information

**Acute toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

| Name | Route | Result |
|---|---|---|
| Diluent | inhalation | LC50 Rat: 4.178 mg/L (4 hr) |
| | oral | LD50 Rabbit: 1,040 mg/kg |
| Amine Mix | oral | LD50 - Rat - 1,200 mg/kg |

**Skin corrosion/irritation**

**Assessment:**
Causes skin irritation

**Product data:**
Skin testing was performed per the OECD 435 methods using the Corrositex testing process, indicating the product is non-corrosive to skin.

**Substance data:**

| Name | Result |
|---|---|
| Curing Agent | Causes severe skin burns and eye damage. |
| | Causes skin irritation. |
| Amine | Causes severe skin burns and eye damage. |
| | Causes skin irritation. |
| | Causes severe skin burns and eye damage. |
| Amine Mix | Causes skin irritation. |

**Serious eye damage/irritation**

**Assessment:**
Causes serious eye damage

**Product data:**
No data available.

**Substance data:**

| Name | Result |
|---|---|
| Curing Agent | Causes serious eye irritation. |
| Amine | Causes serious eye damage. |
| Amine Mix | Causes serious eye irritation. |

**Respiratory or skin sensitization**

**Assessment:**

May cause an allergic skin reaction

**Product data:**

No data available.

**Substance data:**

| Name | Result |
|---|---|
| Curing Agent | May cause an allergic skin reaction. |
| | May cause an allergic skin reaction. |
| Amine | May cause an allergic skin reaction. |
| | May cause an allergic skin reaction. |
| | May cause an allergic skin reaction. |

**Carcinogenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

| Name | Species | Result |
|---|---|---|
| Fiberglass Powder | Not applicable | May cause cancer via inhalation. |
| Titanium Dioxide | Not applicable. | Airborne, unbound particles of respirable size are known to cause cancer. |

**International Agency for Research on Cancer (IARC):**

| Name | Classification |
|---|---|
| Fiberglass Powder | Group 2B |
| Talc Powder | Group 3 - Not classifiable as to its carcinogenicity to humans |
| Titanium Dioxide | Group 2B |

**National Toxicology Program (NTP):**

| Name | Classification |
|---|---|
| Fiberglass Powder | Reasonably anticipated to be human carcinogens |

**Germ cell mutagenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Reproductive toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Specific target organ toxicity (single exposure)**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

| Name | Result |
|---|---|
| Curing Agent | May cause respiratory irritation. |

**Specific target organ toxicity (repeated exposure)**

**Assessment:**

May cause damage to organs through prolonged or repeated exposure

**Product data:**

No data available.

**Substance data:**

| Name | Result |
|---|---|
| Curing Agent | May cause damage to kidneys through prolonged or repeated oral exposure. |

**Aspiration toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:**

No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:**

No data available.

**Other information:**

No data available.

## SECTION 12: Ecological information

**Acute (short-term) toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

| Name | Result |
|---|---|
| Amine | LC50 - Daphnia magna (Water flea) - 33.9 mg/L - 48 h |

**Chronic (long-term) toxicity**

**Assessment:** Harmful to aquatic life with long lasting effects.

**Product data:** No data available.

**Substance data:**

| Name | Result |
|---|---|
| Amine | LC50 - Danio rerio - 7.07 mg/L - 96 hr |
| | EC50 - Daphnia magna - 5.18 mg/L - 48 hr |
| | ErC50 - Pseudokirchneriella subcapitata - 4.11 mg/L - 72 hr |

**Persistence and degradability**

**Product data:** No data available.

**Substance data:** No data available.

**Bioaccumulative potential**

**Product data:** No data available.

**Substance data:** No data available.

**Mobility in soil**

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

**Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

## SECTION 14: Transport information

**United States Transportation of dangerous goods (49 CFR DOT)**

| | |
|---|---|
| **UN number** | Not regulated |
| **UN proper shipping name** | Not regulated |
| **UN transport hazard class(es)** | None |
| **Packing group** | None |
| **Environmental hazards** | None |
| **Special precautions for user** | None |

**International Maritime Dangerous Goods (IMDG)**

| | |
|---|---|
| **UN number** | Not regulated |
| **UN proper shipping name** | Not regulated |
| **UN transport hazard class(es)** | None |
| **Packing group** | None |
| **Environmental hazards** | None |
| **Special precautions for user** | None |

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

| | |
|---|---|
| **UN number** | Not regulated |
| **UN proper shipping name** | Not regulated |
| **UN transport hazard class(es)** | None |
| **Packing group** | None |
| **Environmental hazards** | None |
| **Special precautions for user** | None |

## SECTION 15: Regulatory information

### United States regulations

**Inventory listing (TSCA):**

| | | |
|---|---|---|
| 135108-88-2 | Curing Agent | Listed |
| 100-51-6 | Diluent | Listed |
| 112-57-2 | Amine | Listed |
| 68410-23-1 | Amine | Listed |
| 112-24-3 | Amine | Listed |
| 90-72-2 | Amine Mix | Listed |
| 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | Listed |
| 65997-17-3 | Fiberglass Powder | Listed |
| 14807-96-6 | Talc Powder | Listed |
| 13463-67-7 | Titanium Dioxide | Listed |
| 7727-43-7 | Barium Sulphate | Listed |
| 68953-36-6 | Curing Agent | Listed |

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 313 toxic chemicals:**

| | | |
|---|---|---|
| 135108-88-2 | Curing Agent | Not Listed |
| 100-51-6 | Diluent | Not Listed |
| 112-57-2 | Amine | Not Listed |
| 68410-23-1 | Amine | Not Listed |
| 112-24-3 | Amine | Not Listed |
| 90-72-2 | Amine Mix | Not Listed |
| 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | Not Listed |
| 65997-17-3 | Fiberglass Powder | Not Listed |
| 14807-96-6 | Talc Powder | Not Listed |
| 13463-67-7 | Titanium Dioxide | Not Listed |
| 7727-43-7 | Barium Sulphate | Listed |
| 68953-36-6 | Curing Agent | Not Listed |

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:**

| | | |
|---|---|---|
| 135108-88-2 | Curing Agent | Not Listed |
| 100-51-6 | Diluent | Listed |
| 112-57-2 | Amine | Listed |
| 68410-23-1 | Amine | Not Listed |
| 112-24-3 | Amine | Listed |
| 90-72-2 | Amine Mix | Not Listed |
| 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | Not Listed |
| 65997-17-3 | Fiberglass Powder | Listed |
| 14807-96-6 | Talc Powder | Listed |
| 13463-67-7 | Titanium Dioxide | Listed |
| 7727-43-7 | Barium Sulphate | Listed |
| 68953-36-6 | Curing Agent | Not Listed |

**New Jersey Right to Know:**

| | | |
|---|---|---|
| 135108-88-2 | Curing Agent | Not Listed |
| 100-51-6 | Diluent | Not Listed |
| 112-57-2 | Amine | Listed |
| 68410-23-1 | Amine | Not Listed |
| 112-24-3 | Amine | Listed |
| 90-72-2 | Amine Mix | Not Listed |
| 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | Not Listed |
| 65997-17-3 | Fiberglass Powder | Listed |
| 14807-96-6 | Talc Powder | Listed |
| 13463-67-7 | Titanium Dioxide | Listed |
| 7727-43-7 | Barium Sulphate | Listed |
| 68953-36-6 | Curing Agent | Not Listed |

**New York Right to Know:**

| | | |
|---|---|---|
| 135108-88-2 | Curing Agent | Not Listed |
| 100-51-6 | Diluent | Not Listed |
| 112-57-2 | Amine | Listed |
| 68410-23-1 | Amine | Not Listed |

| | | |
|---|---|---|
| 112-24-3 | Amine | Listed |
| 90-72-2 | Amine Mix | Not Listed |
| 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | Not Listed |
| 65997-17-3 | Fiberglass Powder | Not Listed |
| 14807-96-6 | Talc Powder | Not Listed |
| 13463-67-7 | Titanium Dioxide | Listed |
| 7727-43-7 | Barium Sulphate | Not Listed |
| 68953-36-6 | Curing Agent | Not Listed |

**Pennsylvania Right to Know:**

| | | |
|---|---|---|
| 135108-88-2 | Curing Agent | Not Listed |
| 100-51-6 | Diluent | Listed |
| 112-57-2 | Amine | Listed |
| 68410-23-1 | Amine | Not Listed |
| 112-24-3 | Amine | Listed |
| 90-72-2 | Amine Mix | Not Listed |
| 67762-90-7 | Siloxanes and Silicones, di-Me, reaction products with silica | Not Listed |
| 65997-17-3 | Fiberglass Powder | Listed |
| 14807-96-6 | Talc Powder | Listed |
| 13463-67-7 | Titanium Dioxide | Listed |
| 7727-43-7 | Barium Sulphate | Listed |
| 68953-36-6 | Curing Agent | Not Listed |

**California Proposition 65:**

⚠**WARNING:** Cancer - www.P65Warnings.ca.gov.

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 3-0-0

**HMIS:** 3-0-0

**Initial preparation date:** 06.15.2018

**Revision date:** 04.16.2020

**End of Safety Data Sheet**