

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.26.2019

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## Steel Reinforced Epoxy Hardener - Slow Cure - Part B

### SECTION 1: Identification

#### Product identifier

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

**Product code:** 50165



#### 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

CHEMTREC

Transportation Emergencies (24 hour): 800-424-9300 or

703-527-3887

Poison Control Centers (24 hour): medical emergencies 800-222-1222

### SECTION 2: Hazard(s) identification

#### GHS classification:

Skin corrosion, category 1C

Serious eye damage, category 1

Skin sensitization, category 1

Acute toxicity (oral), category 4

Specific target organ toxicity - repeated exposure, category 2

#### Label elements

##### Hazard pictograms:



**Signal word:** Danger

#### Hazard statements:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H373 May cause damage to kidneys through prolonged or repeated oral exposure.

#### Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P272 Contaminated work clothing must not be allowed out of the workplace.  
P270 Do not eat, drink or smoke when using this product.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P363 Wash contaminated clothing before reuse  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P314 Get medical advice/attention if you feel unwell  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local regulations.

**Hazards not otherwise classified:** None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 14807-96-6	Talc	5-10
CAS number: 14808-60-7	Silica, crystalline	<1
CAS number: 112-57-2	Tetraethylenepentamine	1-5
CAS number: 68410-23-1	Fatty acids, C18-unsaturated, dimers	<30
CAS number: 112-24-3	Triethylenetetramine	1-5
CAS number: 13463-67-7	Titanium Dioxide	1-5
CAS number: 135108-88-2	Methylenedioxy, Polymer with Benzene	5-10
CAS number: 100-51-6	Benzyl Alcohol	5-10
CAS number: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	5-10
CAS number: 21645-51-2	Aluminum hydroxide	<0.1
CAS number: 7631-86-9	Silica, amorphous	<0.1
CAS number: 1314-23-4	Zirconium oxide	<0.1

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CAS number: 68953-36-6	Fatty acids, tall-oil, Oligomeric R	10-15
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### 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).

## 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:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse

#### 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:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning and tearing. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse

#### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time)

### 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:

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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:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

## 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

Wear recommended personal protective equipment (see Section 8)

### 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

Sweep or scoop up solid material while minimizing dust generation

Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Section 8: Personal Protective Equipment

## SECTION 7: Handling and storage

### Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Wear recommended personal protective equipment (See Section 8).

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

Keep container tightly sealed.

Keep container dry.

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
United States (OSHA)	Talc	14807-96-6	OSHA PEL Ceiling 20 mppcf
	Titanium Dioxide	13463-67-7	OSHA PEL TWA 15 mg/m <sup>3</sup> (Total dust)
	Silica, amorphous	7631-86-9	OSHA PEL 8 Hour TWA: 15 mg/m <sup>3</sup>
	Silica, crystalline	14808-60-7	OSHA Z-3 TWA 0.1 mg/m <sup>3</sup> (Respirable fraction); 0.3 mg/m <sup>3</sup> (Total dust)
	Zirconium oxide	1314-23-4	OSHA TWA: 5 mg/m <sup>3</sup>

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Zirconium oxide	1314-23-4	OSHA STEL: 10 mg/m <sup>3</sup>
	Aluminum hydroxide	21645-51-2	OSHA TWA: 5 mg/m <sup>3</sup> (Respirable fraction)
	Aluminum hydroxide	21645-51-2	OSHA TWA: 15 mg/m <sup>3</sup> (Total dust)
ACGIH	Aluminum hydroxide	21645-51-2	ACGIH TLV 8Hr TWA: 1.0 mg/m <sup>3</sup> , respirable fraction (Aluminum metal and insoluble compounds)
	Talc	14807-96-6	ACGIH TLV TWA 2 mg/m <sup>3</sup> ; (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	Titanium Dioxide	13463-67-7	ACGIH TLV TWA 10 mg/m <sup>3</sup>
	Silica, crystalline	14808-60-7	ACGIH TLV TWA 0.025 mg/m <sup>3</sup> (Respirable fraction)
	Zirconium oxide	1314-23-4	8-Hour Exposure Limit (TLV-TWA): 5 mg/m <sup>3</sup>
	Zirconium oxide	1314-23-4	15-minute STEL: 10 mg/m <sup>3</sup>
WEEL	Benzyl Alcohol	100-51-6	WEEL TWA 10.0 ppm
	Tetraethylenepentamine	112-57-2	TWA 8-hr: 6.0 mg/m <sup>3</sup> ; 1.0 ppm
	Triethylenetetramine	112-24-3	WEEL TWA 1.0 ppm
NIOSH	Silica, amorphous	7631-86-9	NIOSH 10 hr Time Weighted Avg (TWA): 6 mg/m <sup>3</sup>
	Aluminum hydroxide	21645-51-2	NIOSH REL 10Hr TWA: 10.0 mg/m <sup>3</sup> , total
	Silica, crystalline	14808-60-7	NIOSH TWA 0.05 mg/m <sup>3</sup>
	Aluminum hydroxide	21645-51-2	NIOSH REL 10Hr TWA: 10.0 mg/m <sup>3</sup> , respirable fraction
	Talc	14807-96-6	NIOSH REL TWA 2.0 mg/m <sup>3</sup>
	Silica, amorphous	7631-86-9	NIOSH IDLH: 3000 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	IDLH: 5,000 mg/m <sup>3</sup>
	Zirconium oxide	1314-23-4	NIOSH Recommended exposure limit (REL) [for up to a 10-hour workday during a 40-hour workweek]: 5 mg/m <sup>3</sup>
	Zirconium oxide	1314-23-4	NIOSH STEL: 10 mg/m <sup>3</sup>
	Zirconium oxide	1314-23-4	NIOSH Immediately dangerous to life or health (IDLH) concentration: 25 mg/m <sup>3</sup>

**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.

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### 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

<b>Appearance</b>	White paste
<b>Odor</b>	Amine-like
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	Not determined or not available.
<b>Flash point (closed cup)</b>	Product does not sustain combustion.
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</b>	Not determined or not available.
<b>Vapor pressure</b>	Not determined or not available.
<b>Vapor density</b>	1.07
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	>200°C (>392°F)
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

### Other information

<b>VOC Content (%)</b>	<3%
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## SECTION 10: Stability and reactivity

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### 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:

Open flames, sparks and static discharge.

### Incompatible materials:

None known.

### Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### Acute toxicity

#### Assessment:

Harmful if swallowed

**Product data:** No data available.

#### Substance data:

Name	Route	Result
2,4,6-tris(dimethylaminomethyl)phenol	oral	LD50 - Rat - 1,200 mg/kg
Benzyl Alcohol	oral	LD50 Rabbit: 1,040 mg/kg
	inhalation	LC50 Rat: 4.178 mg/L (4 hr)
Aluminum hydroxide	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 (4 h): 888 - 2,300 mg/m <sup>3</sup> air (rat)

### Skin corrosion/irritation

#### Assessment:

Causes severe skin burns and eye damage

#### Product data:

No data available.

#### Substance data:

Name	Result
Tetraethylenepentamine	Causes severe skin burns and eye damage.
Fatty acids, C18-unsaturated, dimers	Causes skin irritation.
Fatty acids, tall-oil, Oligomeric R	Causes skin irritation.
2,4,6-tris(dimethylaminomethyl)phenol	Causes skin irritation.
Methylenedioxiide, Polymer with Benzene	Causes severe skin burns and eye damage.
Triethylenetetramine	Causes severe skin burns and eye damage.

### Serious eye damage/irritation

#### Assessment:

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Causes serious eye damage

### Product data:

No data available.

### Substance data:

Name	Result
Fatty acids, C18-unsaturated, dimers	Causes serious eye damage.
Fatty acids, tall-oil, Oligomeric R	Causes serious eye irritation.
2,4,6-tris(dimethylaminomethyl)phenol	Causes serious eye irritation.

### Respiratory or skin sensitization

#### Assessment:

May cause an allergic skin reaction

#### Product data:

No data available.

#### Substance data:

Name	Result
Fatty acids, C18-unsaturated, dimers	May cause an allergic skin reaction.
Fatty acids, tall-oil, Oligomeric R	May cause an allergic skin reaction.
Tetraethylenepentamine	May cause an allergic skin reaction.
Methylenedioxiide, Polymer with Benzene	May cause an allergic skin reaction.
Triethylenetetramine	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
Titanium Dioxide	Not applicable.	Airborne, unbound particles of respirable size are known to cause cancer.
Silica, crystalline	Not applicable	Component may cause cancer.

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

Name	Classification
Talc	Group 3 - Not classifiable as to its carcinogenicity to humans
Titanium Dioxide	Group 2B
Silica, crystalline	Group 1 - Carcinogenic to humans
Silica, amorphous	Group 3 - Not classifiable as to its carcinogenicity to humans

### National Toxicology Program (NTP):

Name	Classification
Silica, crystalline	Known to be human carcinogens

### Germ cell mutagenicity



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**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
Fatty acids, tall-oil, Oligomeric R	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
Methylenedioide, Polymer with Benzene	May cause damage to kidneys through prolonged or repeated oral exposure.
Silica, crystalline	Component affects the lungs through repeated 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
Triethylenetetramine	LC50 - Daphnia magna (Water flea) - 33.9 mg/L - 48 h

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Name	Result
Aluminum hydroxide	LC50 (16 days): 430 - 3,910 µg/L
	NOEC (33 days): 71.5 - 558.1 µg/L
	EC50 (48 h): 1.5 - 2.56 mg/L

### Chronic (long-term) toxicity

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

**Product data:** No data available.

**Substance data:**

Name	Result
Fatty acids, C18-unsaturated, dimers	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.

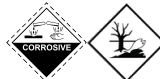
## SECTION 13: Disposal considerations

### 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	UN 1759
UN proper shipping name	Corrosive Solid, n.o.s. (Methyleneoxide, Polymer with Benzene, Tetraethylenepentamine)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	Marine Pollutant Fatty Acids, C18-unsaturated dimer, Tetraethylenepentamine
Special precautions for user	None
Passenger air/rail	25 Kg
Cargo aircraft only	100 Kg
Stowage category	A

### International Maritime Dangerous Goods (IMDG)

UN number	UN 1759
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<b>UN proper shipping name</b>	Corrosive Solid, n.o.s. (Methyleneoxide, Polymer with Benzene, Tetraethylenepentamine)
<b>UN transport hazard class(es)</b>	8 
<b>Packing group</b>	III
<b>Environmental hazards</b>	Marine Pollutant Fatty Acids, C18-unsaturated dimer, Tetraethylenepentamine
<b>Special precautions for user</b>	None
<b>EmS number</b>	F-A, S-B
<b>Stowage category</b>	A
<b>Excepted quantities</b>	E1
<b>Limited quantity</b>	5 Kg

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

<b>UN number</b>	UN 1759
<b>UN proper shipping name</b>	Corrosive Solid, n.o.s. (Methyleneoxide, Polymer with Benzene, Tetraethylenepentamine)
<b>UN transport hazard class(es)</b>	8 
<b>Packing group</b>	III
<b>Environmental hazards</b>	Marine Pollutant Fatty Acids, C18-unsaturated dimer, Tetraethylenepentamine
<b>Special precautions for user</b>	None
<b>ERG code</b>	8L
<b>Excepted quantities</b>	E1
<b>Passenger and cargo</b>	25 Kg
<b>Cargo aircraft only</b>	100 Kg
<b>Limited quantity</b>	5 Kg

### SECTION 15: Regulatory information

#### United States regulations

##### Inventory listing (TSCA):

68410-23-1	Fatty acids, C18-unsaturated, dimers	Listed
68953-36-6	Fatty acids, tall-oil, Oligomeric R	Listed
14807-96-6	Talc	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Listed
135108-88-2	Methylenedioxide, Polymer with Benzene	Listed
100-51-6	Benzyl Alcohol	Listed
112-57-2	Tetraethylenepentamine	Listed
13463-67-7	Titanium Dioxide	Listed
112-24-3	Triethylenetetramine	Listed
14808-60-7	Silica, crystalline	Listed
21645-51-2	Aluminum hydroxide	Listed
7631-86-9	Silica, amorphous	Listed

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1314-23-4	Zirconium oxide	Listed
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**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:** None of the ingredients are 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:**

68410-23-1	Fatty acids, C18-unsaturated, dimers	Not Listed
68953-36-6	Fatty acids, tall-oil, Oligomeric R	Not Listed
14807-96-6	Talc	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed
135108-88-2	Methylenedioxiide, Polymer with Benzene	Not Listed
100-51-6	Benzyl Alcohol	Listed
112-57-2	Tetraethylenepentamine	Listed
13463-67-7	Titanium Dioxide	Listed
112-24-3	Triethylenetetramine	Listed
14808-60-7	Silica, crystalline	Listed
21645-51-2	Aluminum hydroxide	Not Listed
7631-86-9	Silica, amorphous	Listed
1314-23-4	Zirconium oxide	Listed

**New Jersey Right to Know:**

68410-23-1	Fatty acids, C18-unsaturated, dimers	Not Listed
68953-36-6	Fatty acids, tall-oil, Oligomeric R	Not Listed
14807-96-6	Talc	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed
135108-88-2	Methylenedioxiide, Polymer with Benzene	Not Listed
100-51-6	Benzyl Alcohol	Not Listed
112-57-2	Tetraethylenepentamine	Listed
13463-67-7	Titanium Dioxide	Listed
112-24-3	Triethylenetetramine	Listed
14808-60-7	Silica, crystalline	Listed
21645-51-2	Aluminum hydroxide	Not Listed
7631-86-9	Silica, amorphous	Listed
1314-23-4	Zirconium oxide	Not Listed

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#### New York Right to Know:

68410-23-1	Fatty acids, C18-unsaturated, dimers	Not Listed
68953-36-6	Fatty acids, tall-oil, Oligomeric R	Not Listed
14807-96-6	Talc	Not Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed
135108-88-2	Methylenedioxiide, Polymer with Benzene	Not Listed
100-51-6	Benzyl Alcohol	Not Listed
112-57-2	Tetraethylenepentamine	Listed
13463-67-7	Titanium Dioxide	Listed
112-24-3	Triethylenetetramine	Listed
14808-60-7	Silica, crystalline	Not Listed
21645-51-2	Aluminum hydroxide	Not Listed
7631-86-9	Silica, amorphous	Not Listed
1314-23-4	Zirconium oxide	Not Listed

#### Pennsylvania Right to Know:

68410-23-1	Fatty acids, C18-unsaturated, dimers	Not Listed
68953-36-6	Fatty acids, tall-oil, Oligomeric R	Not Listed
14807-96-6	Talc	Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Not Listed
135108-88-2	Methylenedioxiide, Polymer with Benzene	Not Listed
100-51-6	Benzyl Alcohol	Listed
112-57-2	Tetraethylenepentamine	Listed
13463-67-7	Titanium Dioxide	Listed
112-24-3	Triethylenetetramine	Listed
14808-60-7	Silica, crystalline	Listed
21645-51-2	Aluminum hydroxide	Not Listed
7631-86-9	Silica, amorphous	Listed
1314-23-4	Zirconium oxide	Not Listed

#### California Proposition 65:

**⚠️ WARNING:** This product can expose you to chemicals including Silica, crystalline quartz and Titanium Dioxide which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Safety Data Sheet

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### Steel Reinforced Epoxy Hardener - Slow Cure - Part B

#### 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:** 04.26.2019

**End of Safety Data Sheet**

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 04.25.2019

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## Steel Reinforced Epoxy Resin - Syringe - Part A

### SECTION 1: Identification

#### Product identifier

**Product name:** Steel Reinforced Epoxy Resin - Syringe - Part A

**Product code:** 50165, 50176



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

**Relevant identified uses:** Adhesive Part A

**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

CHEMTREC

Transportation Emergencies (24 hour): 800-424-9300 or

703-527-3887

Poison Control Centers (24 hour): medical emergencies 800-222-1222

### SECTION 2: Hazard(s) identification

#### GHS classification:

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

#### Label elements

##### Hazard pictograms:



**Signal word:** Warning

#### Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

#### Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P362 Take off contaminated clothing and wash before reuse

P321 Specific treatment (see supplemental first aid instructions on this label).

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## Steel Reinforced Epoxy Resin - Syringe - Part A

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

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

P337+P313 If eye irritation persists get medical advice/attention

P501 Dispose of contents/container in accordance with local regulations.

**Hazards not otherwise classified:** None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 1333-86-4	Carbon Black	<1
CAS number: 14807-96-6	Talc	1-5
CAS number: 14808-60-7	Silica, crystalline	<1
CAS number: 2425-79-8	1,4-Butanediol Diglycidyl Ether	10-15
CAS number: 2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	1-5
CAS number: 25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	<50
CAS number: 28064-14-4	Epoxy Phenol	30-35
CAS number: 106-89-8	Epichlorohydrin	<0.1

### 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).

## 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:

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. If symptoms develop or persist, seek medical advice/attention



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## Steel Reinforced Epoxy Resin - Syringe - Part A

### 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:

Causes eye irritation. Symptoms include corneal redness, tearing, burning, and inflammation  
Causes skin irritation and may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

#### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time)

### 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:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion  
Heating causes a rise in pressure, risk of bursting and combustion

## 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  
Wear recommended personal protective equipment (see Section 8)

### 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  
Sweep or scoop up solid material while minimizing dust generation  
Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Section 8: Personal Protective Equipment

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Initial preparation date: 04.25.2019

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## Steel Reinforced Epoxy Resin - Syringe - Part A

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Wear recommended personal protective equipment (see Section 8).

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

Keep container tightly sealed.

Keep container dry.

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
United States (OSHA)	Talc	14807-96-6	OSHA PEL Ceiling 20 mppcf
	Silica, crystalline	14808-60-7	OSHA Z-3 TWA 0.1 mg/m <sup>3</sup> (Respirable fraction); 0.3 mg/m <sup>3</sup> (Total dust)
	Carbon Black	1333-86-4	OSHA PEL TWA 3.5 mg/m <sup>3</sup>
	Epichlorohydrin	106-89-8	OSHA PEL TWA 5 ppm (19 mg/m <sup>3</sup> ) [skin]
ACGIH	Talc	14807-96-6	ACGIH TLV TWA 2 mg/m <sup>3</sup> ; (Inhalable particulate matter containing no asbestos and < 1% crystalline silica)
	Silica, crystalline	14808-60-7	ACGIH TLV TWA 0.025 mg/m <sup>3</sup> (Respirable fraction)
	Carbon Black	1333-86-4	TLV-TWA 3.0 mg/m <sup>3</sup>
	Epichlorohydrin	106-89-8	ACGIH TLV TWA 0.5 ppm [skin]
NIOSH	Talc	14807-96-6	NIOSH REL TWA 2.0 mg/m <sup>3</sup>
	Silica, crystalline	14808-60-7	NIOSH TWA 0.05 mg/m <sup>3</sup>
	Carbon Black	1333-86-4	NIOSH REL TWA 0.1 mg PAHs/m <sup>3</sup> [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]
	Carbon Black	1333-86-4	NIOSH REL TWA 3.5 mg/m <sup>3</sup> Ca
	Epichlorohydrin	106-89-8	NIOSH IDLH 75 ppm

#### 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

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## Steel Reinforced Epoxy Resin - Syringe - Part A

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

<b>Appearance</b>	Black paste
<b>Odor</b>	Ethereal
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	Not determined or not available.
<b>Flash point (closed cup)</b>	Product does not sustain combustion.
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</b>	Not determined or not available.
<b>Vapor pressure</b>	Not determined or not available.
<b>Vapor density</b>	1.199
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Not determined or not available.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	>200°C (>392°F)
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

### Other information

<b>VOC Content (%)</b>	<3%
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## SECTION 10: Stability and reactivity

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## Steel Reinforced Epoxy Resin - Syringe - Part A

### 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:

Open flames, sparks and static discharge.

### 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
1,4-Butanediol Diglycidyl Ether	dermal	LD50 - Rabbit - 1,130 mg/kg
Epichlorohydrin	dermal	LD50 Dermal - Rabbit - 300 mg/kg
	inhalation	LC50 - Rat - 250 ppm - 8 h
	oral	LD50 - Rat - 90 mg/kg

### Skin corrosion/irritation

#### Assessment:

Causes skin irritation

#### Product data:

No data available.

#### Substance data:

Name	Result
Bisphenol-A-(Epichlorhydrin) Epoxy	Causes skin irritation.
Epoxy Phenol	Causes skin irritation
1,4-Butanediol Diglycidyl Ether	Causes skin irritation.
Epichlorohydrin	Corrosive to the skin.

### Serious eye damage/irritation

#### Assessment:

Causes serious eye irritation

#### Product data:

No data available.

#### Substance data:

Name	Result
(3-Glycidoxypropyl)trimethoxysilane	Causes serious eye damage.

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## Steel Reinforced Epoxy Resin - Syringe - Part A

Name	Result
Bisphenol-A-(Epichlorhydrin) Epoxy	Causes serious eye irritation.
Epoxy Phenol	Causes eye irritation
1,4-Butanediol Diglycidyl Ether	Causes serious eye irritation.

### Respiratory or skin sensitization

**Assessment:**

May cause an allergic skin reaction

**Product data:**

No data available.

**Substance data:**

Name	Result
Bisphenol-A-(Epichlorhydrin) Epoxy	May cause an allergic skin reaction.
Epoxy Phenol	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
1,4-Butanediol Diglycidyl Ether	May cause an allergic skin reaction.
Epichlorohydrin	May cause sensitisation by skin contact.

### Carcinogenicity

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

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Silica, crystalline	Not applicable	Component may cause cancer.
Carbon Black	Not applicable.	The carcinogenic classification only applies to airborne, unbound particles of respirable size.
Epichlorohydrin	Not applicable	Suspected human carcinogen.

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

Name	Classification
Talc	Group 3 - Not classifiable as to its carcinogenicity to humans
Silica, crystalline	Group 1 - Carcinogenic to humans
Carbon Black	Group 2B - Possibly carcinogenic to humans
Epichlorohydrin	Group 2A - Probably carcinogenic to humans

### National Toxicology Program (NTP):

Name	Classification
Silica, crystalline	Known to be human carcinogens
Epichlorohydrin	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.

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## Steel Reinforced Epoxy Resin - Syringe - Part A

### 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:** No data available.

### Specific target organ toxicity (repeated exposure)

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

### Product data:

No data available.

**Substance data:**

Name	Result
Silica, crystalline	Component affects the lungs through repeated 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:** No data available.

### Chronic (long-term) toxicity

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

**Product data:** No data available.

**Substance data:** No data available.

### 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

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Initial preparation date: 04.25.2019

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## Steel Reinforced Epoxy Resin - Syringe - Part A

### 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	UN 3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Bisphenol-A-(Epichlorhydrin) Epoxy, Epoxy Phenol)
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	None
Special precautions for user	None
EmS number	F-A, S-F
Stowage category	A
Excepted quantities	E1
Limited quantity	5 Kg

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

UN number	UN 3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Bisphenol-A-(Epichlorhydrin) Epoxy, Epoxy Phenol)
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	9L
Excepted quantities	E1
Passenger and cargo	400 Kg
Cargo aircraft only	400 Kg
Limited quantity	30 Kg G

## SECTION 15: Regulatory information

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Steel Reinforced Epoxy Resin - Syringe - Part A

#### United States regulations

##### Inventory listing (TSCA):

25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	Listed
28064-14-4	Epoxy Phenol	Listed
2425-79-8	1,4-Butanediol Diglycidyl Ether	Listed
2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	Listed
14807-96-6	Talc	Listed
14808-60-7	Silica, crystalline	Listed
1333-86-4	Carbon Black	Listed
106-89-8	Epichlorohydrin	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:

106-89-8	Epichlorohydrin	Listed
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##### SARA Section 313 toxic chemicals:

25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	Not Listed
28064-14-4	Epoxy Phenol	Not Listed
2425-79-8	1,4-Butanediol Diglycidyl Ether	Not Listed
2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	Not Listed
14807-96-6	Talc	Not Listed
14808-60-7	Silica, crystalline	Not Listed
1333-86-4	Carbon Black	Not Listed
106-89-8	Epichlorohydrin	Listed

##### CERCLA:

106-89-8	Epichlorohydrin	Listed	100 Lbs
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##### RCRA:

106-89-8	Epichlorohydrin	Listed	U041
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##### Section 112(r) of the Clean Air Act (CAA):

106-89-8	Epichlorohydrin	Listed
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##### Massachusetts Right to Know:

25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	Not Listed
28064-14-4	Epoxy Phenol	Not Listed
2425-79-8	1,4-Butanediol Diglycidyl Ether	Not Listed
2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	Not Listed
14807-96-6	Talc	Listed
14808-60-7	Silica, crystalline	Listed



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## Steel Reinforced Epoxy Resin - Syringe - Part A

1333-86-4	Carbon Black	Listed
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### New Jersey Right to Know:

1333-86-4	Carbon Black	Listed
25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	Listed
28064-14-4	Epoxy Phenol	Not Listed
2425-79-8	1,4-Butanediol Diglycidyl Ether	Not Listed
2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	Not Listed
14807-96-6	Talc	Listed
14808-60-7	Silica, crystalline	Listed

### New York Right to Know:

1333-86-4	Carbon Black	Not Listed
25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	Listed
28064-14-4	Epoxy Phenol	Not Listed
2425-79-8	1,4-Butanediol Diglycidyl Ether	Not Listed
2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	Not Listed
14807-96-6	Talc	Not Listed
14808-60-7	Silica, crystalline	Not Listed

### Pennsylvania Right to Know:

1333-86-4	Carbon Black	Listed
25068-38-6	Bisphenol-A-(Epichlorhydrin) Epoxy	Listed
28064-14-4	Epoxy Phenol	Not Listed
2425-79-8	1,4-Butanediol Diglycidyl Ether	Not Listed
2530-83-8	(3-Glycidoxypropyl)trimethoxysilane	Not Listed
14807-96-6	Talc	Listed
14808-60-7	Silica, crystalline	Listed

### California Proposition 65:

**⚠️WARNING:** This product can expose you to chemicals including Silica, crystalline quartz and Bounded Carbon Black which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠️WARNING:** This product can expose you to 1-chloro-2,3-epoxypropane, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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### Steel Reinforced Epoxy Resin - Syringe - Part A

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:** 2-0-0

**HMIS:** 2-0-0

**Initial preparation date:** 04.25.2019

**End of Safety Data Sheet**