

# Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 01.18.2019

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## Steel Reinforced Epoxy Hardener - Fast Cure - Twin Tube - Part B

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product Name:** Steel Reinforced Epoxy Hardener - Fast Cure - Twin Tube  
- Part B

**Product code:** 8276, 80176, 8270, 8271, 8276H



#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** Not determined or not applicable.

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

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

#### 1.3 Details of the manufacturer/supplier of the safety data sheet

**Manufacturer:**

**North America**

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

**Supplier:**

**European Union**

JRP Distribution Ltd.  
Unit 3 New Wharf Brighton Road  
Shoreham by Sea, BN43 6RN

#### 1.4 Emergency telephone number:

**United Kingdom**

CHEMTREC

1-703-527-3887

+(44)-870-8200418 (London)

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No. 1272/2008 (CLP):**

Skin sensitization, category 1

Chronic aquatic hazard, category 3

**Hazard-determining components of labeling:**

Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether

#### 2.2 Label elements

**Hazard pictograms:**



**Signal word:** Warning

**Hazard statements:**

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

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

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

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

P273 Avoid release to the environment.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

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

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

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

2.3 Other hazards: None known

### SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 72244-98-5	Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3- propanediol (4:1), 2-hydroxy-3- mercaptopropyl ether	Skin Sens. 1; H317 Aquatic Chronic 3; H412	35-40
CAS number: 7727-43-7 EC number: 231-784-4	Barium Sulfate, Natural	Not classified	25-30
CAS number: 1317-65-3 EC number: 215-279-6	Limestone	Not classified	20-25
CAS number: 14807-96-6 EC number: 238-877-9	Talc	Not classified	5-10
CAS number: 90-72-2 EC number: 202-013-9	2,4,6- tris(dimethylaminomethyl)phenol	Acute Tox. 4; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	1-5
CAS number: 65997-17-3 EC number: 266-046-0	Glass, oxide, chemicals	Not classified	<2
CAS number: 67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	Not classified	<1
CAS number: 1302-78-9 EC number: 215-108-5	Bentonite	Not classified	<1
CAS number: 13463-67-7 EC number: 236-675-5	Titanium Dioxide	Not classified	<1
CAS number: 71074-89-0 EC number: 275-162-0	Bis[(dimethylamino)methyl]phenol	Skin Corr. 1B; H314	<1

Additional information:

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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.

**Full Text of H and EUH statements:** See section 16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General notes:**

Not determined or not available.

**Following inhalation:**

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

**Following skin contact:**

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

**Following eye contact:**

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

**Following ingestion:**

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

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

**Acute symptoms and effects:**

Not determined or not available.

**Delayed symptoms and effects:**

Not determined or not available.

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

**Specific treatment:**

Not determined or not available.

**Notes for the doctor:**

Not determined or not available

### SECTION 5: Firefighting measures

#### 5.1 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.

#### 5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3 Advice for firefighters

**Personal protection equipment:**

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

**Special precautions:**

Not determined or not applicable.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

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Wear protective eye wear, gloves and clothing.

### 6.2 Environmental precautions:

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

### 6.3 Methods and material for containment and cleaning up:

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

### 6.4 Reference to other sections:

Not determined or not applicable.

## SECTION 7: Handling and storage

### 7.1 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.

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

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

### 7.3 Specific end use(s):

Not determined or not applicable.

## SECTION 8: Exposure controls/personal protection



### 8.1 Control parameters

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Bulgaria	Glass, oxide, chemicals	65997-17-3	TWA: 6.0 mg/m <sup>3</sup> (inhalable fraction)
	Bentonite	1302-78-9	TWA: 6.0 mg/m <sup>3</sup> (inhalable fraction)
	Glass, oxide, chemicals	65997-17-3	TWA: 1.0 fibres/cm <sup>3</sup> (respirable fraction)
	Bentonite	1302-78-9	TWA: 3.0 mg/m <sup>3</sup> (respirable fraction)
	Limestone	1317-65-3	TWA: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Respirable dust)
	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 10 mg/m <sup>3</sup>
	Talc	14807-96-6	TWA: 6.0 mg/m <sup>3</sup> (inhalable fraction)

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	Talc	14807-96-6	TWA: 3.0 mg/m <sup>3</sup> (respirable fraction)
Cyprus	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Talc	14807-96-6	8-hour TWA: 706 particles/cm <sup>3</sup>
Czech Republic	Bentonite	1302-78-9	8-hour TWA: 6.0 mg/m <sup>3</sup>
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 5.0 mg/m <sup>3</sup> (glass laminate dusts)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1.0 fibers/cm <sup>3</sup> (respirable fibers)
	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup>
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 4 mg/m <sup>3</sup> (synthetic mineral fibers - all sizes)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1.0 fibers/cm <sup>3</sup> (synthetic mineral respirable fibers)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 0.3 fibers/cm <sup>3</sup> (ceramic respirable fibers)
	Talc	14807-96-6	8-hour TWA: 2.0 mg/m <sup>3</sup> (dust, respirable fraction, Fr ≤ 5%)
	Talc	14807-96-6	8-hour TWA: 10 mg/m <sup>3</sup> (dust, respirable fraction, Fr > 5%)
	Talc	14807-96-6	8-hour TWA: 10 mg/m <sup>3</sup> (dust, total concentration)
	Talc	14807-96-6	8-hour TWA: 5.0 mg/m <sup>3</sup> (polymeric material dust)
Slovakia	Bentonite	1302-78-9	8-hour TWA (NPEL): 6 mg/m <sup>3</sup>
	Barium Sulfate, Natural	7727-43-7	NPEL TWA 8-hr: 4 mg/m <sup>3</sup> (Inhalable fraction), 1.5 mg/m <sup>3</sup> (Respirable fraction)
	Limestone	1317-65-3	NPEL TWA 8-hr: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA (NPEL) 5 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour TWA (NPEL): 2 fibers/cm <sup>3</sup> (4 mg/m <sup>3</sup> )
	Talc	14807-96-6	8-hour TWA (NPEL): 2 mg/m <sup>3</sup> (respirable fraction, Fr ≤ 5%)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (respirable fraction, Fr > 5%)
Croatia	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup> (Total dust); 4 mg/m <sup>3</sup> (Respirable dust)
	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 10 mg/m <sup>3</sup> (Total dust); 4 mg/m <sup>3</sup> (Respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Total dust) 15-min
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m <sup>3</sup> (Respirable dust) 15-min
	Talc	14807-96-6	Maximum (8 hr) allowable concentration: 1 mg/m <sup>3</sup> (respirable dust)
Estonia	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup> ; 5 mg/m <sup>3</sup> (Fine dust)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m <sup>3</sup> 8-hr
	Talc	14807-96-6	8-hour TWA: 10 mg/m <sup>3</sup> (total dust)
	Talc	14807-96-6	8-hour TWA: 5 mg/m <sup>3</sup> (fine dust)
	Talc	14807-96-6	8-hour TWA: 3 mg/m <sup>3</sup> (plastic)
	Talc	14807-96-6	8-hour TWA: 1 mg/m <sup>3</sup> (textile)
	Talc	14807-96-6	8-hour TWA: 5 mg/m <sup>3</sup> (organic dust, total dust)
Belgium	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 10 mg/m <sup>3</sup>
	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 10 mg/m <sup>3</sup> (glass - fibers or dusts of)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup>
	Talc	14807-96-6	8-hour TWA: 10 mg/m <sup>3</sup> (inhalable fraction)
	Talc	14807-96-6	8-hour TWA: 3 mg/m <sup>3</sup> (respirable fraction)
Hungary	Limestone	1317-65-3	ÁK Value TWA 8-hr: 221 mg/m <sup>3</sup> ; CK Value STEL 60-min 442 mg/m <sup>3</sup>
	Glass, oxide, chemicals	65997-17-3	8-Hour TWA (ÁK Value): 1.0 fibers/cm <sup>3</sup>
	Talc	14807-96-6	8-hour TWA (ÁK Value): 2 mg/m <sup>3</sup> (respirable)
	Talc	14807-96-6	8-hour TWA (ÁK Value): 10 mg/m <sup>3</sup> (total, inhalable)
Romania	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Titanium Dioxide	13463-67-7	OEL: STEL 15 mg/m <sup>3</sup> 15-min
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup> (glass wool fibers - respirable fraction)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup> (rock wool fibers - respirable fraction)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup> (slag wool fibers - respirable fraction)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup> (special purpose glass fibers - respirable fraction)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (inhalable fraction)
Finland	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 10 mg/m <sup>3</sup>
	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour limit: 5 mg/m <sup>3</sup>
	Talc	14807-96-6	15-minute limit: 2 ppm (inhalable)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Talc	14807-96-6	15-minute limit: 1 ppm (respirable)
Latvia	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 2 mg/m <sup>3</sup>
	Talc	14807-96-6	8-hour TWA: 4 mg/m <sup>3</sup> (tuff, pumice, perlite)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (natural and synthetic)
	Talc	14807-96-6	8-hour TWA: 5 mg/m <sup>3</sup> (polymers)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (abrasive dusts)
	Talc	14807-96-6	8-hour TWA: 4 mg/m <sup>3</sup> (tal-like dust)
Ireland	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 2 mg/m <sup>3</sup> (Respirable Dust)
	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup> (Total dust); 4 mg/m <sup>3</sup> (Respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Inhalable dust) 8-hr
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m <sup>3</sup> (Respirable dust) 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour OEL (TWA): 2 fibers/cm <sup>3</sup> of air (5 mg/m <sup>3</sup> )
	Talc	14807-96-6	8-hour OEL (TWA): 10 mg/m <sup>3</sup> (total inhalable dust)
	Talc	14807-96-6	8-hour OEL (TWA): 0.8 mg/m <sup>3</sup> (respirable fraction)
Italy	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 5 mg/m <sup>3</sup> (Inhalable fraction)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibres/cm <sup>3</sup>
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (respirable fraction)
Lithuania	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup> (glass fiber)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 0.2 fibers/cm <sup>3</sup> (synthetic inorganic, crystal fibers)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 1 fibers/cm <sup>3</sup> (synthetic inorganic, amorphous fibers)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (inhalable fraction)
	Talc	14807-96-6	8-hour TWA: 1 mg/m <sup>3</sup> (respirable fraction)
Poland	Titanium Dioxide	13463-67-7	OEL: TWA (NDS) 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour TWA( NDS): 2.0 mg/m <sup>3</sup> (inhalable fraction)
	Glass, oxide, chemicals	65997-17-3	8-hour TWA (NDS): 1.0 fibers/cm <sup>3</sup> (respirable fibers)

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	Talc	14807-96-6	8-hour TWA (NDS): 4 mg/m <sup>3</sup> (inhalable fraction)
	Talc	14807-96-6	8-hour TWA (NDS): 1 mg/m <sup>3</sup> (respirable fraction)
Portugal	Barium Sulfate, Natural	7727-43-7	TWA 8-hr: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	NP 1796-2007 8-hour exposure limit: 1 fibres/cm <sup>3</sup>
	Talc	14807-96-6	NP 1796-2007 8-hour exposure limit: 2 mg/m <sup>3</sup> (respirable fraction)
France	Limestone	1317-65-3	VME TWA: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: (VME) 10 mg/m <sup>3</sup>
	Talc	14807-96-6	Time weighted average (VME): 10 mg/m <sup>3</sup> (inhalable fraction)
	Talc	14807-96-6	Time weighted average (VME): 5 mg/m <sup>3</sup> (respirable fraction)
Spain	Barium Sulfate, Natural	7727-43-7	VLA-ED 8-hr: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: (VLA_ED) 10.0 mg/m <sup>3</sup> 8-hr
	Glass, oxide, chemicals	65997-17-3	8-hour daily exposure limit (VLA_ED): 0.5 fibres/cm <sup>3</sup>
	Talc	14807-96-6	8-hour daily exposure limit (VLA_ED): 2 mg/m <sup>3</sup> (respirable fraction)
Greece	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup> (Inhalable dust); 5 mg/m <sup>3</sup> (Respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Inhalable) 8-hr
	Titanium Dioxide	13463-67-7	OEL: TWA 5.0 mg/m <sup>3</sup> (Respirable dust) 8-hr
	Talc	14807-96-6	8-hour TWA: 10 mg/m <sup>3</sup> (inhalable)
	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (respirable)
United Kingdom	Barium Sulfate, Natural	7727-43-7	TWA: 10 mg/m <sup>3</sup> (Inhalable dust), 4 mg/m <sup>3</sup> (Respirable dust)
	Limestone	1317-65-3	TWA 8-hr: 10 mg/m <sup>3</sup> (Total dust); 4 mg/m <sup>3</sup> (Respirable dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 10.0 mg/m <sup>3</sup> (Total dust)
	Titanium Dioxide	13463-67-7	OEL: TWA 4.0 mg/m <sup>3</sup> (Respirable dust)
	Glass, oxide, chemicals	65997-17-3	TWA: 1 fibre/mL (5 mg/m <sup>3</sup> )
	Talc	14807-96-6	TWA: 1 mg/m <sup>3</sup> (respirable dust)
Austria	Titanium Dioxide	13463-67-7	OEL: TWA 5 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67-7	OEL: STEL 10 mg/m <sup>3</sup>
Denmark	Titanium Dioxide	13463-67-7	OEL: TWA 6.0 mg/m <sup>3</sup>
	Glass, oxide, chemicals	65997-17-3	TWA: 1 fibers/cm <sup>3</sup>
Slovenia	Glass, oxide, chemicals	65997-17-3	8-hour TWA: 500000 fibers/m <sup>3</sup>

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	Talc	14807-96-6	8-hour TWA: 2 mg/m <sup>3</sup> (Respirable fraction)
Netherlands	Glass, oxide, chemicals	65997-17-3	Binding 8-hour TWA: 0.5 fibre/cm <sup>3</sup>
	Talc	14807-96-6	8-hour TWA: 0.25 mg/m <sup>3</sup> (respirable)
Sweden	Titanium Dioxide	13463-67-7	OEL: (NGV) 5.0 (Total dust) mg/m <sup>3</sup>
	Glass, oxide, chemicals	65997-17-3	Level Limit Value (NGV): 1 fiber/mL
	Talc	14807-96-6	Level Limit Value (NGV): 2 mg/m <sup>3</sup> (total dust)
	Talc	14807-96-6	Level Limit Value (NGV): 1 mg/m <sup>3</sup> (respirable dust)
Germany	Talc	14807-96-6	AGW Limit value: 1.25 mg/m <sup>3</sup> (respirable fraction)
	Talc	14807-96-6	AGW limit value: 10 mg/m <sup>3</sup> (inhalable fraction)
	Talc	14807-96-6	AGW Short term (15 min) exposure limit: 20 mg/m <sup>3</sup> (inhalable fraction)

### Biological limit values:

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

### Derived No Effect Level (DNEL):

Not determined or not applicable.

### Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

### 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.

## 8.2 Exposure controls

### 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.

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## Steel Reinforced Epoxy Hardener - Fast Cure - Twin Tube - Part B

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

### Environmental exposure controls:

Select controls based on a risk assessment of local conditions.

See section 6 for information on accidental release measures.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	White liquid
<b>Odor</b>	Pungent. [Strong]
<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>	Closed cup: >93.3°C (>199.9°F) [Setaflash.] [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>	Not determined or not available.
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	1.902
<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>	Not determined or not available.
<b>Decomposition temperature</b>	>220 °C (>392 °F)
<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.

### 9.2 Other information

<b>VOC Content</b>	<1%
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Does not react under normal conditions of use and storage.

### 10.2 Chemical stability:

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

### 10.4 Conditions to avoid:

None known.

### 10.5 Incompatible materials:

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None known.

### 10.6 Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

**Product data:** No data available.

#### Substance data:

Name	Route	Result
2,4,6-tris(dimethylaminomethyl)phenol	oral	LD50 - Rat - 1,200 mg/kg

#### Skin corrosion/irritation

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

#### Product data:

No data available.

#### Substance data:

Name	Result
2,4,6-tris(dimethylaminomethyl)phenol	Causes skin irritation.
Bis[(dimethylamino)methyl]phenol	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

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

#### Product data:

No data available.

#### Substance data:

Name	Result
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
Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	May cause an allergic skin reaction.

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### Carcinogenicity

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

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Glass, oxide, chemicals	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
Glass, oxide, chemicals	Group 2B
Talc	Group 3 - Not classifiable as to its carcinogenicity to humans
Titanium Dioxide	Group 2B

### National Toxicology Program (NTP):

Name	Classification
Glass, oxide, chemicals	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:** 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:** No data available.

### 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.

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## Steel Reinforced Epoxy Hardener - Fast Cure - Twin Tube - Part B

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### 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

**Product data:** No data available.

**Substance data:**

Name	Result
Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	NOEC - Daphnia magna (Water flea) - 3.5 mg/L - 21 d

#### 12.2 Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### 12.3 Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### 12.4 Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

#### 12.5 Results of PBT and vPvB assessment

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### 12.6 Other adverse effects: No data available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Relevant information:

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

### SECTION 14: Transport information

#### International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

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 Carriage of Dangerous Goods by Inland Waterways (ADN)

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<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

### International Maritime Dangerous Goods (IMDG)

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

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

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

<b>Bulk Name</b>	None
<b>Ship type</b>	None
<b>Pollution category</b>	None

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

#### European regulations

##### Inventory listing (EINECS):

72244-98-5	Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	Not Listed
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	Listed
71074-89-0	Bis[(dimethylamino)methyl]phenol	Listed
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	Not Listed
65997-17-3	Glass, oxide, chemicals	Listed
14807-96-6	Talc	Listed
1317-65-3	Limestone	Listed
13463-67-7	Titanium Dioxide	Listed
1302-78-9	Bentonite	Listed

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## Steel Reinforced Epoxy Hardener - Fast Cure - Twin Tube - Part B

7727-43-7	Barium Sulfate, Natural	Listed
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**REACH SVHC candidate list:** None of the ingredients are listed.

**REACH SVHC Authorizations:** None of the ingredients are listed.

**REACH Restriction:** None of the ingredients are listed.

**Water hazard class (WGK) (Product):** Not determined.

**Water hazard class (WGK) (Substance):**

Ingredient Name	CAS	Class
Poly(oxy(methyl-1,2-ethanediyl)), alpha-hydro-omega-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	72244-98-5	1
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	Non-hazardous to water.
Talc	14807-96-6	Non-hazardous to water.
Limestone	1317-65-3	Non-hazardous to water.
Titanium Dioxide	13463-67-7	Non-hazardous to water.
Barium Sulfate, Natural	7727-43-7	Non-hazardous to water.

### Other regulations

**Germany MAK:** Talc: 8-hour TWA: 0.3 mg/m<sup>3</sup> (respirable fraction), Talc: 8-hour TWA: 4 mg/m<sup>3</sup> (inhalable fraction), Barium sulfate, Natural: 8-hour TWA: 0.3 mg/m<sup>3</sup> (respirable fraction), Barium sulfate, Natural: 8-hour TWA: 4 mg/m<sup>3</sup> (inhalable fraction)

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

### Indication of changes:

Not applicable.

**Abbreviations and Acronyms:** None

### Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Skin sensitization, category 1	Calculation method
Chronic aquatic hazard, category 3	Calculation method

### Summary of classification in section 3:

Skin Sens. 1; H317	Skin sensitization, category 1
Aquatic Chronic 3; H412	Chronic aquatic hazard, category 3
Acute Tox. 4; H302	Acute toxicity (oral), category 4
Skin Irrit. 2 ; H315	Skin irritation, category 2
Eye Irrit. 2; H319	Eye irritation, category 2A
Skin Corr. 1B; H314	Skin corrosion, category 1B

### Summary of hazard statements in section 3:

H317	May cause an allergic skin reaction
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H412	Harmful to aquatic life with long lasting effects
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H314	Causes severe skin burns and eye damage

#### Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). 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.

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**End of Safety Data Sheet**