

## Safety Data Sheet

## Firestone Building Products Company

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

## 1.1 Product identifier

**Product Name** • XR Stick™ Adhesive Part 2

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

**Relevant identified use(s)** • Construction

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

**Manufacturer** • Firestone Building Products Company

200 4th Avenue S  
Nashville, TN 37201-2208  
United States

firestonemsds@bfdp.com

**Telephone (General)** • 800-428-4442

## 1.4 Emergency telephone number

**Manufacturer** • (800) 424-9300 - CHEMTREC

**Manufacturer** • (703) 527-3887 - CHEMTREC - International

## Section 2: Hazards Identification

## EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

## 2.1 Classification of the substance or mixture

**CLP** • Skin Irritation 2 - H315  
Eye Irritation 2 - H319

**DSD/DPD** • Irritant (Xi)  
R36/38

## 2.2 Label Elements

**CLP**

**WARNING**

**Hazard statements** • H315 - Causes skin irritation  
H319 - Causes serious eye irritation

**Precautionary statements**

**Prevention** • P264 - Wash thoroughly after handling.  
P280 - Wear eye/face protection , .  
P280 - Wear protective gloves .

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P362 - Take off contaminated clothing and wash before reuse.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P321 - Specific treatment, see supplemental first aid information.  
 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.

**DSD/DPD**

**Risk phrases** • R36/38 - Irritating to eyes and skin.

**Safety phrases** • S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**2.3 Other Hazards**

**CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

**DSD/DPD** • According to European Directive 1999/45/EC this material is considered dangerous.

**United States (US)**

According to: OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture**

**OSHA HCS 2012** • Skin Irritation 2  
 Eye Irritation 2

**2.2 Label elements**

**OSHA HCS 2012**

**WARNING**

**Hazard statements** • Causes skin irritation  
 Causes serious eye irritation

**Precautionary statements**

**Prevention** • Wash thoroughly after handling.  
 Wear eye/face protection , .  
 Wear protective gloves .

**Response** • If on skin: Wash with plenty of water.  
 Take off contaminated clothing and wash before reuse.  
 If skin irritation occurs: Get medical advice/attention.  
 Specific treatment, see supplemental first aid information.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards**

**OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Canada**

According to: WHMIS

**2.1 Classification of the substance or mixture**

**WHMIS**

- Toxic - D1B  
Other Toxic Effects - D2B

**2.2 Label elements****WHMIS****WHMIS**

- Toxic - D1B  
Other Toxic Effects - D2B

**2.3 Other hazards****WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

**Section 3 - Composition/Information on Ingredients****3.1 Substances**

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

**3.2 Mixtures**

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polyether triol	CAS:9082-00-2	< 40%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Diethylene glycol	CAS:111-46-6 EC Number:203-872-2 EU Index:603-140-00-6	< 20%	NDA	EU DSD/DPD: Annex VI, Table 3.2: Xn; R22 EU CLP: Annex VI, Table 3.1: Acute Tox. 4, H302 OSHA HCS 2012: Eye Irrit. 2	NDA
Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	CAS:6846-50-0 EC Number:229-934-9	< 15%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Polypropylene glycol	CAS:25322-69-4	< 15%	Ingestion/Oral-Rat LD50 • >2 g/kg	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Propanol, oxybis-	CAS:25265-71-8 EC Number:	< 10%	Ingestion/Oral-Rat LD50 • 16000 mg/kg	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

**Section 4 - First Aid Measures****4.1 Description of first aid measures****Inhalation**

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Skin**

- Wash skin with soap and water. If irritation develops and persists, get medical attention.

- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

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

- Refer to Section 11 - Toxicological Information.

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

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- Water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

- Unsuitable Extinguishing Media**
- Do not use a direct stream of water.

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

- Unusual Fire and Explosion Hazards**
- Decomposition products may cause a health hazard.

- Hazardous Combustion Products**
- Fumes, smoke, carbon monoxide and carbon dioxide may form when heated to decomposition.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).  
SMALL FIRES: Move containers from fire area if you can do it without risk.  
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

## Section 6 - Accidental Release Measures

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

- Personal Precautions**
- Wear appropriate personal protective equipment. Know and prepare for spill response before using or handling this product. Do not walk through spilled material. Avoid contact with skin and eyes. Keep unauthorized personnel away.

- Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Keep out of low areas. Stay upwind.

### 6.2 Environmental precautions

- Prevent entry into waterways and sewers.

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

- Containment/Clean-up Measures**
- SMALL SPILL: Dike area to contain spill. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.  
LARGE SPILL: Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled containers for disposal.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Wear appropriate personal protective equipment, avoid direct contact. Do not breathe vapors. Use only in well ventilated areas. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Prevent water or moist air from entering container. Empty containers must not be washed and re-used for any purpose.

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

#### Storage

- Store in a cool, dry, well-ventilated place. Keep container tightly closed. Prevent water or moist air from entering container.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines				
	Result	Denmark	Germany DFG	Germany TRGS
Propanol, oxybis- (25265-71-8)	TWAs	Not established	Not established	100 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 2)
	Ceilings	Not established	200 mg/m <sup>3</sup> Peak (inhalable fraction)	Not established
	MAKs	Not established	100 mg/m <sup>3</sup> TWA MAK (inhalable fraction)	Not established
Diethylene glycol (111-46-6)	TWAs	2.5 ppm TWA; 11 mg/m <sup>3</sup> TWA	Not established	10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 44 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)
	Ceilings	Not established	40 ppm Peak; 176 mg/m <sup>3</sup> Peak	Not established
	MAKs	Not established	10 ppm TWA MAK; 44 mg/m <sup>3</sup> TWA MAK	Not established

### Exposure Control Notations

#### Germany TRGS

- Propanol, oxybis- (25265-71-8): **Skin:** (skin notation)

#### Germany DFG

- Diethylene glycol (111-46-6): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Propanol, oxybis- (25265-71-8): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation (inhalable fraction))

### 8.2 Exposure controls

#### Engineering Measures/Controls

- This adhesive is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Wear chemical splash safety goggles.

#### Skin/Body

- Wear appropriate chemical resistant clothing and chemical resistant gloves.

### Environmental Exposure Controls

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

#### Key to abbreviations

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Red liquid with a mildly sweet odor.
Color	Red	Odor	Mild sweet.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.019 Water=1	Density	8.5 lbs/gal
Water Solubility	Data lacking	Viscosity	390 to 530 Centipoise (cPs, cP) or mPas
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Vol.)	11 g/L EPA Method 24 VOC
Flammability			
Flash Point	190.6 °C(375.08 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## 10.4 Conditions to avoid

- High temperatures.

## 10.5 Incompatible materials

- Alkali or alkaline earth metals, strong acids, copper, brass, elastomers.

## 10.6 Hazardous decomposition products

- Decomposition will not occur if handled and stored properly. Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Polyether triol (< 40%)	9082-00-2	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >10 g/kg; Skin-Rabbit LD50 • >5 g/kg
Diethylene glycol (< 20%)	111-46-6	<b>Acute Toxicity:</b> Skin-Rabbit LD50 • 11890 mg/kg; <b>Irritation:</b> Eye-Rabbit • 50 mg • Mild irritation; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 76420 mg/kg (6-15D preg); <i>Reproductive Effects: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus)</i>
Polypropylene glycol (< 15%)	25322-69-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >2 g/kg; <b>Irritation:</b> Eye-Rabbit • 500 mg • Mild irritation
Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3- (< 15%)	6846-50-0	<b>Irritation:</b> Skin-Human • 1 % 3 Week(s)-Intermittent • Mild irritation
Propanol, oxybis- (< 10%)	25265-71-8	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 14850 mg/kg; Skin-Rabbit • >5000 mg/kg

GHS Properties	Classification
<b>Acute toxicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Skin corrosion/Irritation</b>	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
<b>Serious eye damage/Irritation</b>	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2
<b>Skin sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Respiratory sensitization</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Aspiration Hazard</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Carcinogenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>Germ Cell Mutagenicity</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

<b>Toxicity for Reproduction</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>STOT-SE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
<b>STOT-RE</b>	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

## Potential Health Effects

### Inhalation

- Acute (Immediate)** • May cause irritation.
- Chronic (Delayed)** • No data available

### Skin

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • No data available

### Eye

- Acute (Immediate)** • Causes serious eye irritation.
- Chronic (Delayed)** • No data available

### Ingestion

- Acute (Immediate)** • Although swallowing this product is an unlikely means of exposure, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.
- Chronic (Delayed)** • No data available

#### Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

## Section 12 - Ecological Information

### 12.1 Toxicity

- Material data lacking.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods



**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

**14.6 Special precautions for user**

- None specified.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

- Data lacking.

**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications** • Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Diethylene glycol	111-46-6	No	No	Yes
Polyether triol	9082-00-2	No	No	No
Polypropylene glycol	25322-69-4	No	No	No
Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	No	No	No
Propanol, oxybis-	25265-71-8	No	No	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Diethylene glycol	111-46-6	Yes	No	Yes	No	Yes
Polyether triol	9082-00-2	Yes	No	No	No	Yes
Polypropylene glycol	25322-69-4	Yes	No	No	No	Yes
Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Yes	No	Yes	No	Yes

Propanol, oxybis-	25265-71-8	Yes	No	Yes	No	Yes
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## Belgium

### Labor

#### Belgium - Substances and Preparations - Carcinogens and Mutagens

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## Bulgaria

### Environment

#### Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	D1B
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### Canada - WHMIS - Ingredient Disclosure List

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### Environment

#### Canada - CEPA - Priority Substances List

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
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• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## Denmark

### Environment

#### Denmark - List of Undesirable Substances - Product Groups/Function

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## Europe

### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Xn; R22
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Xn R:22 S:(2)-46
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	S:(2)-46
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## Germany

**Labor****Germany - Immission Control - Qualifying Quantities for Major Accident Prevention**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Germany - Immission Control - Qualifying Quantities for Safety Reporting**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Germany - TRGS 505 - Specific Lead Regulations**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Germany - TRGS 511 - Specific Ammonium Nitrate Regulations**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Environment****Germany - TA Luft - Types and Classes**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Germany - TA Luft - Emission Limits for Carcinogenic Substances**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Germany - TA Luft - Emission Limits for Fibers**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**Germany - TA Luft - Emission Limits for Inorganic Dusts**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed

• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed
<b>Germany - TA Luft - Emission Limits for Inorganic Gases</b>		
• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed
<b>Germany - TA Luft - Emission Limits for Organic Substances</b>		
• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed
<b>Germany - Water Classification (VwVwS) - Annex 1</b>		
• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed
<b>Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes</b>		
• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	ID Number 79, hazard class 1 - low hazard to waters
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	ID Number 6988, hazard class 1 - low hazard to waters
• Polypropylene glycol	25322-69-4	ID Number 6988, hazard class 1 - low hazard to waters
<b>Germany - Water Classification (VwVwS) - Annex 3</b>		
• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	ID Number 5152, hazard class 1 - low hazard to waters
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	ID Number 3419, hazard class 1 - low hazard to waters
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed

• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## Environment

### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## United States - California

**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

• Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3-	6846-50-0	Not Listed
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• Diethylene glycol	111-46-6	Not Listed
• Propanol, oxybis-	25265-71-8	Not Listed
• Polyether triol	9082-00-2	Not Listed
• Polypropylene glycol	25322-69-4	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- R22 - Harmful if swallowed.

### Revision Date

- 19/January/2018

### Preparation Date

- 26/August/2014

### Other Information

- Changes to this revision: Updated mailing address.

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### Key to abbreviations

NDA = No data available