

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
250 West 96th Street
Indianapolis, IN 46260
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 - H315
 - Eye Irritation 2 - H319

2.2 Label elements

OSHA HCS 2012

WARNING

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

Precautionary statements

- Prevention**
- Wash thoroughly after handling. - P264
 - Wear eye/face protection, . . - P280
 - Wear protective gloves . - P280
- Response**
- If on skin: Wash with plenty of water .
 - Take off contaminated clothing and wash before reuse. - P362
 - If skin irritation occurs: Get medical advice/attention. - P332+P313
 - Specific treatment, see supplemental first aid information. - P321
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - If eye irritation persists: Get medical advice/attention. - P337+P313

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

Preparation Date: 26/August/2014
 Revision Date: 26/August/2014

WHMIS

- Toxic - D1B
Other Toxic Effects - D2B

2.2 Label elements**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 (CO₂).
- 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/m3 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/m3 Peak (inhalable fraction) | Not established |
| | MAKs | Not established | 100 mg/m3 TWA MAK (inhalable fraction) | Not established |
| Diethylene glycol (111-46-6) | TWAs | 2.5 ppm TWA; 11 mg/m3 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/m3 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/m3 Peak | Not established |
| | MAKs | Not established | 10 ppm TWA MAK; 44 mg/m3 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 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 | 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 | Acute Toxicity: Ingestion/Oral-Rat LD50 • >10 g/kg; Skin-Rabbit LD50 • >5 g/kg |
| Diethylene glycol (< 20%) | 111-46-6 | Acute Toxicity: Skin-Rabbit LD50 • 11890 mg/kg; Irritation: Eye-Rabbit • 50 mg • Mild irritation; Reproductive: 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 | Acute Toxicity: Ingestion/Oral-Rat LD50 • >2 g/kg; Irritation: Eye-Rabbit • 500 mg • Mild irritation |
| Propanoic acid, 2-methyl-, 1,1'-[2,2-dimethyl-1-(1-methylethyl)-1,3- (< 15%) | 6846-50-0 | Irritation: Skin-Human • 1 % 3 Week(s)-Intermittent • Mild irritation |
| Propanol, oxybis- (< 10%) | 25265-71-8 | Acute Toxicity: Ingestion/Oral-Rat LD50 • 14850 mg/kg; Skin-Rabbit • >5000 mg/kg |

| GHS Properties | Classification |
|----------------------------------|---|
| Acute toxicity | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Aspiration Hazard | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Carcinogenicity | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Germ Cell Mutagenicity | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Skin corrosion/Irritation | EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2 |
| Skin sensitization | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| STOT-RE | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| STOT-SE | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |

| | |
|--------------------------------------|---|
| Toxicity for Reproduction | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Respiratory sensitization | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Serious eye damage/Irritation | EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2 |

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 73/78 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 |

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 |
| • 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 |

Germany - TA Luft - Emission Limits for Inorganic Gases

| | | |
|--|------------|------------|
| • 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 Organic 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 - Water Classification (VwVwS) - Annex 1

| | | |
|--|------------|------------|
| • 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 - Water Classification (VwVwS) - Annex 2 - Water Hazard 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 | 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 |

Germany - Water Classification (VwVwS) - Annex 3

| | | |
|--|------------|---|
| • 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 |
| • 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.

Last Revision Date

- 26/August/2014

Preparation Date

- 26/August/2014

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Key to abbreviations

NDA = No data available