

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 • I.S.O.Stick™ Insulation Adhesive Part 2

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

Relevant identified use(s) • Construction Adhesive

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	< 70%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Polypropylene glycol	CAS:25322-69-4	< 20%	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 EINECS:246-770-3	< 10%	Ingestion/Oral-Rat LD50 • 16000 mg/kg	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	< 10%	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

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	Australia	Denmark	Germany DFG	Germany TRGS
Diethylene glycol (111-46-6)	TWAs	23 ppm TWA; 100 mg/m3 TWA	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	Not established	40 ppm Peak; 176 mg/m3 Peak	Not established
	MAKs	Not established	Not established	10 ppm TWA MAK; 44 mg/m3 TWA MAK	Not established
Propanol, oxybis- (25265-71-8)	TWAs	Not established	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	Not established	200 mg/m3 Peak (inhalable fraction)	Not established
	MAKs	Not established	Not established	100 mg/m3 TWA MAK (inhalable fraction)	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

- This adhesive is designed to be used outdoors, in roofing applications. Good general

Measures/Controls

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

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	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
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	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
Propanol, oxybis-	25265-71-8	No	No	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Diethylene glycol	111-46-6	Yes	No	Yes	Yes	No
Polyether triol	9082-00-2	Yes	No	Yes	No	No
Polypropylene glycol	25322-69-4	Yes	No	Yes	No	No
Propanol, oxybis-	25265-71-8	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Diethylene glycol	111-46-6	Yes	Yes	Yes
Polyether triol	9082-00-2	Yes	Yes	Yes
Polypropylene glycol	25322-69-4	Yes	Yes	Yes
Propanol, oxybis-	25265-71-8	Yes	Yes	Yes

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• 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

Australia - High Volume Industrial Chemicals List

• Diethylene glycol	111-46-6	Not Listed
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• Propanol, oxybis-	25265-71-8	
• Polyether triol	9082-00-2	
• Polypropylene glycol	25322-69-4	Not Listed

Australia - List of Designated Hazardous Substances - Classification

• 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

Environment**Australia - National Pollutant Inventory (NPI) Substance List**

• 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

Australia - Ozone Protection Act - Scheduled Substances

• 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

Australia - Priority Existing Chemical Program

• 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

Belgium**Labor****Belgium - Substances and Preparations - Carcinogens and Mutagens**

• 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**

• 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

• 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

• 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

• 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

• 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

• 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

China

Other

China - Annex I & II - Controlled Chemicals Lists

• 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

• 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

• 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

• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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		
• 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

• 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**

• 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

• 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

• 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

• 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

• 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

• 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

• 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**

• 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

• 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)

• 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)

• 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

• 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

• 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**

• 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

• 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

- 26/January/2018

Preparation Date

- 07/June/2012

Other Information

- Changes to this revision: Updated mailing address.

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Key to abbreviations

NDA = No data available