

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 8/29/2021 Revision date: 8/29/2021 Supersedes: 9/26/2020 Version: 1.1

SECTION 1: Identification

1.1. Identification	
Product form Trade name Chemical name IUPAC name CAS-No. Formula Synonyms	 Substance POLY-G® 30-169 Polyether Triol alpha, alpha', alpha"-1,2,3-propanetriyltris[w-hydroxypoly(oxy-methyl-1,2-ethanediyl)] 25791-96-2 (C3H6O)n(C3H6O)n(C3H6O)nC3H8O3 Poly(oxypropylene) triol / Glycerol poly(oxypropylene)triol / Glycerol tri(polyoxypropylene) ether / Glycerol, propoxylated / Glyceryl polypropylene glycol ether / Poly(oxypropylene) glycerol triether / Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega hydroxy- / Polypropylene glycol glycerol triether / 1,2,3-Propanetriol, methyloxirane polymer / Propylene oxide-glycerol polymer / Trihydroxy polyoxypropylene ether (330) / Glycerol propylene oxide polymer / PPG-10 GLYCERYL ETHER / Glycerin propoxylate / Glycerol propoxylated / Propoxylated glycerin / Polyoxypropylene glycerin ether / Polyoxypropylene (10) glyceryl ether / Trihydroxypolyoxypropylene ether(330) / Poly(oxy(methyl-1,2-ethanediyl)), .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omegahydroxy- / Laprol 3003 / Laprol-503 / Polyoxypropylene glycerol ether / Polyoxypropylene glyceryl ether / .alphaalpha."- 1,2,3-Propanetriyltris[.omegahydroxypoly-[oxy(methyl-1,2-ethanediyl)]] / PPG-16 GLYCERYL ETHER / PPG-2 GLYCERYL ETHER / PPG-27 GLYCERYL ETHER / PPG-3 GLYCERYL ETHER / PPG-50 GLYCERYL ETHER / PPG-70 GLYCERYL ETHER / PPG-8 GLYCERYL ETHER / PPG-67 GLYCERYL ETHER / PPG-70 GLYCERYL ETHER / PPG-8 GLYCERYL ETHER / PPG-9 GLYCERYL ETHER / PPG-70 GLYCERYL ETHER / PPG-8 GLYCERYL ETHER / PPG-9 GLYCERYL ETHER / Propoxylated glycerol / PPG-16 glyceryl ether / Polypropylene glycol glycerol ether
1.2. Recommended use and restrictions on	use
Use of the substance/mixture Use of the substance/mixture	chemical intermediate for urethane polymer productionChemical intermediate
1.3. Supplier	

Monument Chemical 2450 Olin Road Brandenburg, KY 40108 - USA T (270)422-6860 <u>sds@monumentchemical.com</u> - <u>www.monumentchemical.com</u>

1.4. Emergency telephone number

Emergency number

: 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency Assistance: 1-270-422-6860

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

According to the corresponding national regulations there is no labelling obligation for this product.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Polymer

Name	Product identifier	%
Polyether Triol (Main constituent)	CAS-No.: 25791-96-2	99 – 100
Full text of hazard classes and H-statements : see section 16	·	

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breath fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	cts (acute and delayed)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: No effects known.
Chronic symptoms	: No effects known.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	media
6 6	:Foam. Dry powder. Carbon dioxide. Water spray. Sand. :Do not use a heavy water stream.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.2. Specific hazards arising from the chem	nical	
Fire hazard	: DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Warning! Product may cause floors to be slippery.
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for co	ntainment and cleaning up
For containment	: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and wher leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Incompatible materials. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Incompatible products Incompatible materials Storage temperature Heat-ignition Information on mixed storage	 Strong bases. Strong acids. Sources of ignition. Direct sunlight. 20 – 30 °C KEEP SUBSTANCE AWAY FROM: heat sources. KEEP SUBSTANCE AWAY FROM: isocyanates. oxidizing agents. (strong) acids. (strong)
Storage area Special rules on packaging	 bases. moisture. Store in a dry area. May be stored under nitrogen. Meet the legal requirements. SPECIAL REQUIREMENTS: closing. dry. correctly labelled. meet the legal requirements.
Packaging materials	: SUITABLE MATERIAL: stainless steel. carbon steel. MATERIAL TO AVOID: copper.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Polyether Triol (25791-96-2)		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.	
8.3. Individual protection measures/Pe	ersonal protective equipment	
Personal protective equipment: Avoid all unnecessary exposure.		
Hand protection:		
Wear protective gloves.		
Eye protection:		
Chemical goggles or safety glasses. Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
Wear appropriate mask		
Personal protective equipment symbol(s):		



Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physic	al and chemical properties	
Physical state	: Liquid	
Appearance	: Colorless to pale yellow liquid.	
Color	: Colourless to yellow	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odor	: mild
Odor threshold	: No data available
рН	: 4 – 8 (@ 25 Deg. C) 10/6 Isopropanol / water
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 335 °C (decomposes, OECD 103: Boiling Point)
Flash point	: 150 – 260 °C (Open cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: 0.01 – 3.5 mm Hg (@ 25 Deg. C)
Relative vapor density at 20 °C	: >1
Relative density	: 0.9 – 1.1
Density	: 1080 kg/m³ (20 °C)
Molecular mass	: 200 – 6800 g/mol
Solubility	: Soluble in water.
	Water: miscible, EU Method A.6: Water solubility
	Acetone: soluble
Partition coefficient n-octanol/water (Log Pow)	: -1.82 – -0.73 (Calculated, Other, 25 °C)
Auto-ignition temperature	: 305 °C (1014 hPa, EU Method A.15: Auto-ignition Temperature (liquids and gases), T2)
Decomposition temperature	: 335 °C (OECD 103: Boiling Point)
Viscosity, kinematic	: 519.074 mm²/s
Viscosity, dynamic	: 560.6 mPa·s (20 °C, OECD 114: Viscosity of Liquids)
Explosion limits	: No data available
Explosive properties	: No data available
	: No data available

VOC content: 0 %Other properties: Gas/vapour heavier than air at 20°C. Clear. Hygroscopic. Slightly volatile. Acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	3
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
Polyether Triol (25791-96-2)	
LD50 oral rat	4600 mg/kg
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 200 mg/l 1hr
ATE US (oral)	4600 mg/kg body weight
Skin corrosion/irritation	: Not classified pH: 4 – 8 (@ 25 Deg. C) 10/6 Isopropanol / water
Serious eye damage/irritation	: Not classified pH: 4 – 8 (@ 25 Deg. C) 10/6 Isopropanol / water
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Polyether Triol (25791-96-2)	
NOAEL (oral,rat,90 days)	≥ 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified
Viscosity, kinematic	: 519.074 mm²/s
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: No effects known.
Chronic symptoms	: No effects known.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ecology - air	 Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Photolysis in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Polyether Triol (25791-96-2)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
LOEC (chronic)	> 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Polyether Triol (25791-96-2)		
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
12.2. Persistence and degradability		
Polyether Triol (25791-96-2)		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Polyether Triol (25791-96-2)		
Partition coefficient n-octanol/water (Log Pow)	-1.82 – -0.73 (Calculated, Other, 25 °C)	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
Polyether Triol (25791-96-2)		
Surface tension	53 mN/m (20 °C, 0.1 vol %, EU Method A.5: Surface tension)	
Partition coefficient n-octanol/water (Log Koc)	< 1.25 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		
Other information	: Avoid release to the environment.	

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods Product/Packaging disposal recommendations Additional information	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local/national regulations. Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with Department of Transport / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: Not applicable	
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
IATA Transport hazard class(es) (IATA)	: Not applicable	
14.4. Packing group		
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable 	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT No data available		
IMDG No data available		
IATA No data available		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Polyether Triol (25791-96-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

 EPA TSCA Regulatory Flag
 XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2. International regulations

CANADA

Polyether Triol (25791-96-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Polyether Triol (25791-96-2)

Listed on the EU NLP (No Longer Polymers) inventory

National regulations

Polyether Triol (25791-96-2)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information			
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations			
Revision date	: 08/29/2021		
Other information	: None.		
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.		
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.		
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.		

Safety Data Sheet (SDS), USA

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