

SECTION 1: Identification

1.1. Identification

Product form	: Substance
Trade name	: POLY-G® 30-238
Chemical name	: Polyether Triol
IUPAC name	: alpha, alpha', alpha''-1,2,3-propanetriyltris[w-hydroxypoly(oxy-methyl-1,2-ethanediyl)]
CAS-No.	: 25791-96-2
Formula	: (C3H6O) _n (C3H6O) _n (C3H6O) _n C3H8O3
Synonyms	: 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(.omega.-hydroxy- / Laprol 3003 / Laprol-503 / Polyoxypropylene glycerol ether / Polyoxypropylene glyceryl ether / .alpha.,.alpha.',.alpha."-1,2,3-Propanetriyltris[.omega.-hydroxypoly-[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-55 GLYCERYL ETHER / PPG-6 GLYCERYL ETHER / PPG-67 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	: chemical intermediate for urethane polymer production
Use of the substance/mixture	: Chemical intermediate

1.3. Supplier

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

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.

POLY-G® 30-238

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 : Allow affected person to breathe 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.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

POLY-G® 30-238

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 chemical

Fire hazard : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment 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 : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures : Observe normal hygiene standards.

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

POLY-G® 30-238

Safety Data Sheet

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

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

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless to pale yellow liquid.
Color	: Colourless to yellow
Odor	: mild
Odor threshold	: No data available
pH	: 4 – 8 (@ 25 Deg. C) 10/6 Isopropanol / water
Melting point	: < -150 °C (OECD 102: Melting Point/Melting Range)
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/m ³ (20 °C)
Molecular mass	: 200 – 6800 g/mol

POLY-G® 30-238

Safety Data Sheet

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

Solubility	: Insoluble 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 mm ² /s
Viscosity, dynamic	: 560.6 mPa·s (20 °C, OECD 114: Viscosity of Liquids)
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

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

No additional information available

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: 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

POLY-G® 30-238

Safety Data Sheet

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

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 mm ² /s
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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
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'
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.

POLY-G® 30-238

Safety Data Sheet

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

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

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : 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

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) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

POLY-G® 30-238

Safety Data Sheet

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

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.

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)

POLY-G® 30-238

Safety Data Sheet

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

15.3. US State regulations

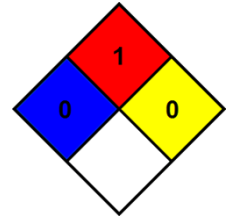
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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

DISCLAIMER: Monument Chemical believes that the information expressly set forth in this Safety Data Sheet (SDS) is accurate as of the date of publication. MONUMENT CHEMICAL EXPRESSLY DISCLAIMS ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Monument Chemical assumes no responsibility for any use of or reliance upon the data provided in this SDS. Given the variety of factors that can affect the use of the material, some of which are uniquely within the user's knowledge and control, the user should independently evaluate (i) the completeness and accuracy of the information provided herein and (ii) the material to determine whether it is suitable and safe for the user's intended use.

Monument Chemical provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, Monument Chemical makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from Monument Chemical.