

# **SAFETY DATA SHEET**

Creation Date 19-Nov-2009 Revision Date 13-Oct-2023

**Revision Number** 9

# 1. Identification

Product Name Propylene Glycol

Cat No.: P355-1; P355-4; P355-20; P355-200; S801501; XXBA147

CAS No 57-55-6

Synonyms 1,2-Propanediol; 1,2-Dihydroxypropane; Methyl Glycol (USP/FCC)

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

#### Company

Midwest Lubricants LLC 1272 Madison 503 Fredericktown, MO 63645 Tel: (314) 808-1192

### **Emergency Telephone Number**

CHEMTRECÒ, Inside the USA: 800-424-9300 CHEMTRECÒ, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

# Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### **Label Elements**

None required

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### Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients						
Component CAS No Weight %						
1,2-Propylene glycol	57-55-6	<=100				

### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If not

breathing, give artificial respiration.

No information available.

**Ingestion** Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Most important symptoms and

effects

iects

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

**Flash Point** 99 °C / 210.2 °F

Method - No information available

Autoignition Temperature 400 °C / 752 °F

**Explosion Limits** 

**Upper** 12.6 vol % **Lower** 2.6 vol %

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### \_ NFPA

Health Flammability Instability Physical hazards 2 1 1 N/A

6. Accidental release measures

**Personal Precautions**Use personal protective equipment as required. Ensure adequate ventilation.

Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological

Information.

d Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. **Methods for Containment an** 

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7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment/face protection.

**Storage.** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Acids.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** 

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type:

Particle filter.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Viscous liquid Liquid Appearance Clear Colourless

**Odor** Odorless

Odor ThresholdNo information availablepH6.5-7.5100g/l aq. solMelting Point/Range-60 °C / -76 °FBoiling Point/Range187 °C / 368.6 °F

Flash Point 99 °C / 210.2 °F
Evaporation Rate No information available

Flammability (solid,gas) Not applicable Flammability or explosive limits

Upper 12.6 vol % Lower 2.6 vol %

**Vapor Pressure** 0.13 mbar @ 20 °C

**Vapor Density** 2.62 **Specific Gravity** 1.03 - 1.04Solubility Soluble in water Partition coefficient; n-octanol/water No data available **Autoignition Temperature** 400 °C / 752 °F **Decomposition Temperature** No information available **Viscosity** 45 mPa.s at 20 °C

Molecular Formula C3 H8 O2 **Molecular Weight** 76.10

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Hygroscopic.

**Conditions to Avoid** Incompatible products. Excess heat. Exposure to moist air or water.

Strong oxidizing agents, Acids **Incompatible Materials** 

Hazardous Decomposition ProductsCarbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

### **Acute Toxicity**

#### **Product Information**

# **Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2-Propylene glycol	LD50 = 20 g/kg (Rat)	LD50 = 20800 mg/kg(Rabbit)	Not listed

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1,2-Propylene	57-55-6	Not listed				
glycol						

No information available **Mutagenic Effects** 

**Reproductive Effects** No information available.

Developmental Effects No information available. Teratogenicity Nο

information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available Aspiration hazard

Symptoms / effects,both acute and No information available delayed

**Endocrine Disruptor Information** 

No information available

**Other Adverse Effects** 

The toxicological properties have not been fully investigated.

# 12. Ecological information

### **Ecotoxicity**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1,2-Propylene glycol	EC50: = 19000 mg/L, 96h (Pseudokirchneriella subcapitata)	LC50: = 51600 mg/L, 96h static (Oncorhynchus mykiss) LC50: 41 - 47 mL/L, 96h static (Oncorhynchus mykiss) LC50: = 51400 mg/L, 96h static (Pimephales promelas) LC50: = 710 mg/L, 96h (Pimephales promelas)	= 710 mg/L EC50 Photobacterium phosphoreum 30 min	EC50: > 1000 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability

Miscible with water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
1,2-Propylene glycol	-0.9

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT	Not regulated			
DOT TDG IATA	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
	15 Populatory information			

# 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification Active- Inactive	TSCA - EPA Regulatory Flags
1,2-Propylene glycol	57-55-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical

Not applicable Substances

& Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1,2-Propylene glycol	57-55-6	Х	-	200-338-	Х	Х	Х	Х	Х	KE-29267

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### **U.S. Federal Regulations**

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable Health

Administration

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know

#### Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,2-Propylene glycol	-	X	X	-	X

### U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N DOT Severe

Marine Pollutant N

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

## Other International Regulations

Mexico - Grade Slight risk, Grade 1

### Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) Annex XIV - Substances Subject to Authorization	Restrictions on Certain	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1,2-Propylene glycol	57-55-6	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1,2-Propylene glycol	57-55-6	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

Component	nponent CAS No		Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements		Basel Convention (Hazardous Waste)
1,2-Propylene glycol	57-55-6	Not applicable	Not applicable	Not applicable	Not applicable

**Prepared By** Regulatory Affairs

Midwest Lubricants LLC

Email: support@midwestlubricants.com

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012

Standard replacing the current legislation under 29 CFR 1910.1200 to align with the

Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**