



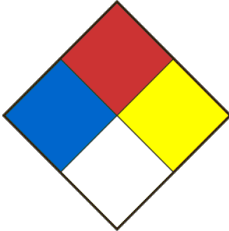
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 1,2-PROPANEDIOL		Product Use Laboratory use	
Chemical formula C ₃ H ₈ O ₂		Product code PR-0213; PU-0213 PP-0169; PU-0169	Molar weight 76,1
Chemical name / Commercial name / Synonymous PROPYLÈNE GLYCOL, 1,2-PROPYLÈNE GLYCOL, MÉTHYLÈNE GLYCOL, MÉTHYL GLYCOL, 1,2-DIHYDROXYPROPANE, MONOPROPYLÈNE GLYCOL, PROPANE-1,2-DIOL, DOWFROST, SIRLENE, SOLAR WINTER BAN			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 9/9/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Not a hazardous substance according to WHMIS 2015
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 1 Fire 1 Reactivity 0 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
1,2-propanediol	57-55-6	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get immediate medical help.
Most important symptoms and effects (acute and delayed)	Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	Heat, sparks and open flame.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides.
Special fire and explosion hazards	1,2-propanediol tends to oxidize on heat and decomposes into propionaldehyde which is a very flammable product. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personal precautions, protective equipment	Evacuate personnel to safe areas. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Avoid breathing vapours, mist or gas. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Hygroscopic. Protect from the sun's rays. Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed and store away from heat, moisture and incompatible products. Light sensitive. Heat sensitive.
Methods of handling	Always open containers slowly to allow any excess pressure to vent. Avoid inhalation of vapour or mist.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Propane-1,2-diol	57-55-6	TWA	50.000000 ppm	Ontario Table of Occupational Exposure Limits made
			155.000000 mg/m3	under the Occupational Health and Safety Act.
		TWA	10.000000 mg/m3	Ontario Table of Occupational Exposure Limits made
				under the Occupational Health and Safety Act.
Remarks	For assessing the visibility in a work environment where 1,2-propylene glycol aerosol is present			

Data source	Sigma-Aldrich.
Ventilation	Proper ventilation or hood.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Appearance	visqueux , incolore-
Odour	inodore.
Odour threshold	non applicable-
pH	Donnée non disponible.
Melting point / Freezing point	-60°C
Initial boiling point	187°C
Boiling range	Data not available
Flash point	99°C
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	2.6%
Upper flammable / Explosive limit	12.5%
Vapour pressure	0.11 hPa (0.08 mmHg) à 20°C-
Vapour density	2.63 (air =1.0)-
Relative density	1.035-1.039g/ml
Solubility	Miscible dans l'eau, les alcools et l'acétone.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions. Hygroscopic. Unstable if heated.
Possibility of hazardous reactions	May react violently with incompatible substances. Keep away from open flames, hot surfaces and sources of ignition.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	This product may decompose if exposed to heat. Light sensitive. Avoid excessive heat and humidity.
Incompatible material	Oxidizing agents, reducing agents, acid chlorides and anhydrides, chloroformates, hydrofluoric acid, nitric acid, silver nitrate, heat and humidity.
Hazardous decomposition products	Toxic vapors of carbon monoxide and dioxide. Hazardous decomposition products formed under fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

1,2-PROPANEDIOL

Routes of exposure	Ingestion and skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and tearing.
- Skin	Irritation.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, dizziness, headache, cough, dyspnea, convulsions, nausea and vomiting.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Gastrointestinal disturbances, liver damage, dizziness, drowsiness, trepidation, confusion, headache, cramps, convulsions, nausea and vomiting.
Chronic exposure effects / symptoms	Burning sensation, tearing, nervous disturbances, chest pain, cough, dyspnea, dizziness, drowsiness, headache, fatigue, loss of appetite, convulsions, nausea and vomiting. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 20,000 mg/kg LD50 Dermal - Rabbit - > 20000
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: Mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates: Mortality NOEC - Daphnia magna (Water flea) - 13,020 mg/l - 48 h. EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 48 h.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Not a hazardous substance according to WHMIS 2015
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SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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