PROPYLENE GLYCOL - Safety Data Sheet According to SANS 10234:2008 and SANS 11014:2010 Issue date:06/05/2020 Revision date: 06/05/2025 Version: 1.0 **SECTION 1: Identification Product identifier** 1.1. Trade name : PROPYLENE GLYCOL **IUPAC** name : propane-1,2-diol EC-No. : 200-338-0 CAS-No. : 57-55-6 : 116200xxx Product code Formula C3H8O2 12 Relevant identified uses of the substance or mixture and uses advised against : For laboratory use only Recommended uses and restrictions Supplier's details 1.3. Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za 1.4. **Emergency telephone number** Emergency number : +27 11 452 1116 SECTION 2: Hazards identification Classification of the substance or mixture 2.1. **Classification according to the United Nations GHS** Flammable liquids Not classified Acute toxicity (oral) Not classified Hazardous to the aquatic environment -Acute Hazard Not classified Full text of H statements : see section 16 2.2 **Label elements** Labelling according to the United Nations GHS No labelling applicable Other hazards 2.3 Adverse physicochemical, human health and : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice environmental effects **SECTION 3: Composition/information on ingredients** Substances 3.1. IUPAC name : propane-1,2-diol Substance identification codes: See section 1.1 Name **Product identifier Classification according to** % the United Nations GHS propane-1,2-diol Flam. Liq. Not classified (CAS-No.) 57-55-6 ≥ 99.5 (Main constituent) Acute Tox. Not classified (Oral) Aquatic Acute Not classified **Mixtures** 3.2. Not applicable SECTION 4: First aid measu

SECTION 4: First alu measures			
4.1. Description of first aid measure	S		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water.		
First-aid measures after eye contact	: Rinse eyes with water as a precaution.		
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and	2. Most important symptoms and effects, both acute and delayed		
No additional information available			
4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2.	Special hazards arising from the substance or mixture		
Hazard fire	ous decomposition products in case of	: Toxic fumes may be released.	
5.3.	Advice for firefighters		
Protecti	ion during firefighting	: 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 equipment and emergency procedures		
No additional information available			
6.1.1.	For non-emergency personnel		

Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency	responders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental p	recautions
Avoid release to the enviror	iment.
6.3. Methods and ma	aterial for containment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handlin	g and storage
7.1. Precautions for	safe handling
Precautions for safe handlin	g : Ensure good ventilation of the work station. Wear personal protective equipment.
Lugiono mogouros	. Do not out, drink or smoke when using this product. Always wash hands after handling the

Hygiene	e measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, including	g any incompatibilities

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

PROPYLENE GLYCOL (57-55-6)		
South Africa - Occupational Exposure Limits (Recommended Limits)		
Local name	Propane-1,2-diol (Propylene glyclol)	
OEL TWA (mg/m³)	470 mg/m³ vapour + particulates 10 mg/m³ particulates	
OEL TWA (ppm)	150 ppm vapour + particulates	
Regulatory reference	Government Notice. R: 1179	

8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures, suc	h as personal protective equipment (PPE)
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



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Safety Data Sheet	
According to SANS 10234:2008 and SANS 11014:2010	
8.4. Exposure limit values for the other	components
No additional information available	
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	
Physical state	: Liquid
Appearance	: Translucent.
Molecular mass	: 76.09 g/mol
Colour	: Colourless.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: -20 °C Atm. press.: 101,325 Pa Decomposition: 'no'
Freezing point	: No data available
Boiling point	: 184 °C Atm. press.: 100,32 kPa Decomposition: 'no'
Flash point	: 104 °C Atm. press.: 100,01 kPa
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 20 Pa Temp.: 25 °C
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.036 Type: 'relative density' Temp.: 20 °C
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available

Upper explosive limit (UEL) 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	duct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable ι	Stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dang	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None u	None under recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No addi	No additional information available		
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTION 11: Toxicological information			

: No data available

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
PROPYLENE GLYCOL (57-55-6)	
LD50 oral rat	22000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
PROPYLENE GLYCOL (57-55-6)	
NOAEL (subchronic, oral, animal/male, 90 days)	443 mg/kg bodyweight Animal: cat, Animal sex: male
Aspiration hazard	: Not classified

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short- erm (acute)	: Not classified.
lazardous to the aquatic environment, long- erm (chronic)	: Not classified
PROPYLENE GLYCOL (57-55-6)	
LC50 fish 1	51400 mg/l Test organisms (species): Pimephales promelas
LC50 fish 2	51600 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri
EC50 72h algae (1)	19300 mg/l Test organisms (species): Skeletonema costatum
EC50 72h algae (2)	24200 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
2.2. Persistence and degradability	
PROPYLENE GLYCOL (57-55-6)	
Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
PROPYLENE GLYCOL (57-55-6)	
Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
PROPYLENE GLYCOL (57-55-6)	
Mobility in soil	No additional information available
12.5. Other adverse effects	
Dzone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

In accordance with SANS / IMDG / IATA

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SANS	IMDG	ΙΑΤΑ		
14.1. UN number				
Not regulated for transport	Not regulated for transport			
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No		
	:			
No supplementary information available				

14.6. Special precautions for user

- SANS

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 informati	
15.1. Safety, health, and environmental	national regulations specific for the product
Regulatory reference	 SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.
SECTION 16: Other information	
Issue date	: 06/05/2020
Revision date	: 06/05/2025

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.