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SECTION 1: Identification			
1.1. Product identifier			
Trade name	: GLYCEROL		
IUPAC name	: glycerol		
EC-No.	: 200-289-5		
CAS-No.	: 56-81-5		
Product code	: 107070xxx		
Formula	: C3H8O3		
1.2. Relevant identified uses of	the substance or mixture an	d uses advised against	
Recommended uses and restrictions	: For laboratory use	e only	
1.3. Supplier's details			
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			
1.4. Emergency telephone numl	ber		
Emergency number	: +27 11 452 1116		
SECTION 2: Hazards identific			
Classification according to the United Acute toxicity (oral), Category 2 Hazardous to the aquatic environment - Acute Hazard Not classified Full text of H statements : see section 1	H300		
2.2. Label elements			
Labelling according to the United Na Hazard pictograms (GHS-ZA)	tions GHS		
Signal word (GHS-ZA)	: Danger		
Hazard statements (GHS-ZA)	: H300 - Fatal if sw	allowed.	
Precautionary statements (GHS-ZA)	: P264 - Wash han P270 - Do not eat P301+P310 - IF S P321 - Specific tr P330 - Rinse mot P405 - Store lock P501 - Dispose o	ds, forearms and face thoroughly aft , drink or smoke when using this pro WALLOWED: Immediately call a PC eatment (see supplemental first aid i tth.	oduct. DISON CENTER or doctor. nstruction on this label). special waste collection point, in
2.3. Other hazards			
Adverse physicochemical, human healt environmental effects	h and : Fatal if swallowed		

SECTION 3: Composition/information on ingredients		
: glycerol		
Substance identification codes: See section 1.1		
Product identifier	%	Classification according to the United Nations GHS
(CAS-No.) 56-81-5	≥ 99.5	Acute Tox. 2 (Oral), H300 Aquatic Acute Not classified
	: glycerol Product identifier	: glycerol Product identifier %

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According to SANS 10234:2019 and SANS 11014:2010

According to SANS 10234:2019 and SANS 11014:2010		
3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
	Call a physician immediately.	
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	Rinse mouth. Call a physician immediately.	
4.2. Most important symptoms and effects	both acute and delayed	
No additional information available		
4.3. Indication of any immediate medical a	ttention and special treatment needed	
Treat symptomatically.		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the subs	tance or mixture	
	Toxic fumes may be released.	
fire		
5.3. Advice for firefighters		
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing	
	apparatus. Complete protective clothing.	
SECTION 6: Accidental release measu	ires	
6.1. Personal precautions, protective equi	pment and emergency procedures	
No additional information available		
6.1.1. For non-emergency personnel		
Emergency procedures	Only qualified personnel equipped with suitable protective equipment may intervene.	
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 precautions		
Avoid release to the environment.		
6.3. Methods and material for containment	•	
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: Handling and storage		
7.1. Precautions for safe handling		
	Ensure good ventilation of the work station. Wear personal protective equipment.	
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, including		
Storage conditions	Store locked up. Store in a well-ventilated place. Keep cool.	
SECTION 8: Exposure controls/persor	nal protection	
8.1. Control parameters		
GLYCEROL (56-81-5) South Africa - Occupational Exposure Limits (Recommended Limits)		
Local name	Glycerol mist	
OEL TWA (mg/m ³)	10 mg/m ³	
Regulatory reference	Government Notice. R: 1179	
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8.2.	Appropriate engineering controls	
Appropria	te engineering controls	: Ensure good ventilation of the work station.
Environm	ental exposure controls	: Avoid release to the environment.

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According to SANS 10234:2019 and SANS 11014:2010

8.3.	Individual protection measures, s	uch as personal protective equipment (PPE)
Hand p	rotection	: Protective gloves

Eye protection

8.4.

- Skin and body protection
- : Wear suitable protective clothing

: Safety glasses

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Exposure limit values for the other components

No additional information available				
SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Appearance	: No data available			
Molecular mass	: 92.09 g/mol			
Colour	No data available			
Odour	: No data available			
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	: 18.17 °C Atm. press.: 101,3 kPa Decomposition: 'no' Sublimation: 'no'			
Freezing point	: No data available			
Boiling point	: 290 °C Atm. press.: 760 mm Hg			
Flash point	: No data available			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: Not applicable			
Vapour pressure	: No data available			
Vapour pressure at 50 °C	: No data available			
Relative vapour density at 20 °C	: No data available			
Relative density	: No data available			
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)	: No data available			

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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According to SANS 10234:2019 and SANS 11014:2010			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal co	nditions of use.		
10.4. Conditions to avoid			
None under recommended storage and handling	g conditions (see section 7).		
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, haz	zardous decomposition products should not be produced.		
SECTION 11: Toxicological informat	ion		
11.1. Information on toxicological effects			
The mornation of toxicological effects			
Acute toxicity (oral)	: Fatal if swallowed.		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
GLYCEROL (56-81-5)			
LD50 oral rat	27 mg/kg bodyweight Animal: rat, Animal sex: female		
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			
Aspiration hazard	: Not classified		

SECTION 12: Ecological information		
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- term (acute)	: Not classified.	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified	
GLYCEROL (56-81-5)		
LC50 fish 1	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
12.2. Persistence and degradability		
GLYCEROL (56-81-5)		
Persistence and degradability	No additional information available	
12.3. Bioaccumulative potential		
GLYCEROL (56-81-5)		
Bioaccumulative potential	No additional information available	
12.4. Mobility in soil		
GLYCEROL (56-81-5)		
Mobility in soil	No additional information available	
12.5. Other adverse effects		
Ozone	: Not classified	
Other adverse effects	: No additional information available	
SECTION 13: Disposal consideration	IS	

SECTION 13: Disposal considerations		
13.1.	Disposal methods	
Waste t	reatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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According to SANS 10234:2019 and SANS 11014:2010

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ
14.1. UN number		
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

15.1. Safety, health, and enviro	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	: 08/07/2020	

Full text of H-statements.				
	H300	Fatal if swallowed.		

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.