# Glycerine

Section 1 - Chemical Product and Company Identification

Products Name:		Glycerine
Synonyms:		Refined Glycerine
Company		Rolfes Chemicals
A Division of Rolfes Group of Companies		
	Cnr Brammer and Strachan, Industries East	
	Germiston	
Information (Product safety)		Telephone: +27 11 873 0157 Fax: +27 11 8738480
Emergency telephone		South Africa +27 (0)86 044 44 11

Section 2 - Composition, Information on Ingredients

CAS#

**Chemical Name:** 

#### EINECS#

56-81-5

1, 2, 3 – Propanetriol Glycerol

99.5%

200-289-5

Hazard Symbols:

None

**Risk Phrases:** 

None

Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

This product is not classified as hazardous according to Directive 67/548/EEC

### **Potential Health Effects**

Eye:Concentrated solutions may cause mild irritation.Skin:May cause skin irritation. Heated product may cause burns on<br/>contact.

Ingestion:May cause irritation of the digestive tract if a large amount isingested.Not applicable at ambient temperature. May cause respiratorytract irritation if mist is inhaled.Not applicable at ambient temperature. May cause respiratory

Chronic:

Not available

**Chemical Hazards** 

Contact of glycerine with strong oxidizing agents such as chromium trioxide, potassium chlorate, potassium permanganate, or other strong acids such as nitric acid may cause an explosion.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes,
occasionally lifting the	upper and lower
eyelids. Get medical aid.	
Skin:	Get medical aid. Flush skin with plenty of water for at least
15 minutes while	removing contaminated
clothing and shoes.	
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air
immediately. If not breathing, give	artificial
respiration. If breathing is difficult, give	oxygen. Get medical aid.
Notes to Physician:	Treat symptomatically and supportively.

General Information: in pressure-demand, protective gear.	As in any fire, wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full
Extinguishing Media: foam.	Use water spray, dry chemical, carbon dioxide, or chemical
Hazardous Decomposition/ polymerization (> 200°C).	At elevated temperatures there is a risk of exothermic
Combustion Products:	At temperature > 280°C acrolein may be formed.
Section 6 - Accidental Release Meas	ures
General Information: indicated in Section 8.	Use proper personal protective equipment as
Environmental leakage or	Should not be released into the environment. Prevent further
Precautions:	spillage if safe to do so.
Methods for cleaning up: hazardous waste.	Soak up with inert absorbent material and dispose of as

Section 7 - Handling and Storage

Handling: No special precautions required but avoid skin and eye contact. Prevent formation of mist. Eye and skin contact should be avoided if working at elevated temperatures.

Storage: Store in a cool, dry place. Store in a tightly closed container to avoid moisture from the air. Can be stored in aluminum, stainless steel and fiber glass containers.

Other Recommendations: Avoid contact with strong oxidizing agents such as chromium trioxide, potassium chlorate, potassium permanganate, or other strong acids such as

nitric acid.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: equipped with an eyewash	Facilities storing or utilizing this material should be	
	facility and a safety	
shower. Use adequate ventilation to ke		
	concentrations low.	
Exposure Limits	CAS# 56-81-5:	
Personal Protective Equipment		
Eyes:	Wear chemical splash goggles.	
Skin:	Wear appropriate protective gloves to prevent skin	
exposure.		
Clothing:	Wear appropriate protective clothing to prevent skin	
exposure.		
Respirators:	Follow the OSHA respirator regulations found in 29 CFR	
1910.134 or European	Standard EN 149. Use a	
NIOSH/MSHA or European Standard E		
	respirator if exposure limits are exceeded or if	
irritation or other symptoms are	experienced.	

Section 9 - Physical and Chemical Properties

Physical State:

Liquid	

Color: Water white Odor: Odorless pH: Neutral

Vapor Pressure:

0.0025 mmHg @ 50°C

Viscosity:

1410 mPa.s @ 20°C

Boiling Point:

290°C @ 760mmHg

Freezing/Melting Point:

Approx. 18°C

Autoignition Temperature:

Approx. 400°C

Flash Point:

198.9°C (PMCC)

Explosion Limits: Lower:

N/A

Explosion Limits: Upper:

N/A

Decomposition Temperature:

>280°C

Solubility in water:

Fully Soluble

Specific Gravity/Density:

1.26

Molecular Formula:

C3H8O3

Molecular Weight:

92.09

Section 10 - Stability and Reactivity

**Chemical Stability:** 

Stable under normal temperatures and pressures.

Conditions to Avoid:

Temperatures >200°C (polymerization/decomposition). Keep away from sources of ignition and naked flames.

Incompatibilities with

Other Materials:

Strong oxidizing agents and acids.

Hazardous Decomposition

Products:

Acrolein (>280°C)

Hazardous Polymerization:

Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 56-81-5

LD50/LC50:

>2000 mg/kg (rat)

Skin:

Mildly irritating

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

#### Ecotoxicity:

- Fish 96h LC50: >5000 mg/l
  Algae 48h EC50: >2900 mg/l
- Bacteria 72h LC50: >10000 mg/l

Mobility: Low potential for absorption into soil. Glycerine will partition to water primarily.

Persistence and Readily biodegradable (OECD 301).

Degradability:

Bioavailability: Low bioaccumulation potential and is not expected to bioaccumulate.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

# Section 14 - Transport Information

IATA

IMO

RID/ADR

SHIPPING NAME

Not regulated.

Not regulated.

Not regulated.

HAZARD CLASS

Not regulated.

Not regulated

Not regulated

UN NO.

Not regulated.

Not regulated

Not regulated

PACKING GROUP

Not regulated.

Not regulated

Not regulated

Section 15 - Regulatory Information

European/International Regulations				
European Labeling in Accordance with EC Directives				
Hazard Symbols:	None			
Risk Phrases:	None			
Safety Phrases:	None			
WGK (Water Danger/Protection) :	CAS# 56-81-5: 1 Low hazard to water			
Canada:	CAS# 56-81-5 is listed on Canada's DSL List			
US Federal:				
TSCA :	CAS# 56-81-5 is listed on the TSCA Inventory.			

Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such

damage