

SAFETY DATA SHEET

Page 1/6

Group of Chemicals: Glycerol
Commercial Name : Refined Glycerine
Common Name/Other Name: Glycerine 99.5%/1,2,3-Propanetriol

SDS no:654
Updated : Aug 2018
Date issue : Aug 2018

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF SUPPLIER

Product name: REFINED GLYCERINE (Industrial Grade For Non-Food & Non-Usp Grade)

Manufacturer name:

Emergency Contacts :

QA/QC Manager
Chief Executive Officer
Phone : + 6

SECTION 2. HAZARDS IDENTIFICATION

Refined Glycerine is Categorized as non-hazardous.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:

Glycerine ,1,2,3 – Propanetriol, formula $C_3H_8O_3$

CAS-number:

56-81-5 (Refined Glycerine)

EINECS- number:

200-289-5 (Refined)

SECTION 4. FIRST-AID MEASURES

When inhaled:

Ventilation
Remove to fresh air. If suffocation is serious, take to a doctor

When in contact with skin:

Absorb water from skin/body if contacted for too long
Remove contaminated clothing, wash skin with water and soap.

When in contact with eyes: Flush with water; take to a doctor if necessary

When ingested:

Diarrhoea, headache, nausea
Rinse mouth, drink plenty of water, see physician

SAFETY DATA SHEET

Page 2/6

Group of Chemicals: Glycerol
Commercial Name : Refined Glycerine
Common Name/Other Name: Glycerine 99.5%/1,2,3-Propanetriol

SDS no:654
Updated : Aug 2018
Date issue : Aug 2018

SECTION 5. FIRE-FIGHTING MEASURES

Suitable fire-fighting agents:

Use dry powder, foam, carbon dioxide for extinguishing.

Extinguishing media which must not be used for safety reasons:

None

Specific hazards in the event of fire:

Combustible, Keep away from open flame, no smoking.
Avoid contact with oxidizing agents.

Protection of fire-fighters (use of protective equipment, etc.):

Use self-contained breathing equipment if in confined place.

SECTION 6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use gloves, face shield

Environmental precautions:

Do not allow to flow into drainage system.

Methods and materials for containment and cleaning up:

Collect leakage in sealable containers, soak up with sand or other inert absorbent and
Remove to safe place. Wash site with sodium bicarbonate solution or soda ash. Wipe clean.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use gloves and wear goggles when handling.

Conditions for safe storage, including any incompatibilities:

Keep in a cool and dry place, avoid extreme heat and cold.
Avoid direct fire. Keep separate from oxidants.
Store in clean, dry, preferably stainless steel vessels.
In bulk, store at ambient temperature. For pumping, heat up to above 60 deg C.
Temperature higher than necessary degrades quality at rate dependent on time and
temperature of exposure.
Exposure to ultraviolet light and sunlight must be minimised to prevent quality loss.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: None

Appropriate engineering controls: No special measures required.

Individual protection measures, such as personal protective equipment (PPE):

Immediately remove soiled or soaked clothing.

SAFETY DATA SHEET

Page 3/6

Group of Chemicals: Glycerol
Commercial Name : Refined Glycerine
Common Name/Other Name: Glycerine 99.5%/1,2,3-Propanetriol

SDS no:654
Updated : Aug 2018
Date issue : Aug 2018

Hand Protection: Suitable protective gloves
Eye Protection: Protective goggles
Body Protection: Suitable protective clothing

SECTION 9. PHYSICAL AND CHEMICALS PROPERTIES

Appearance	Colourless hygroscopic viscous liquid.
Odour	Odourless
Odour threshold	Not available
Ph	Not available
Melting point / freezing point	18 - 22
Initial boiling point and boiling range	290 - 295 °C @ 760 mm Hg
Flash point	>180 °C
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not available
Vapour pressure	0.0025 mbar @ 50 °C
Vapour density	3.2 (relative, air=1)
Relative density	1.0 @ 20 °C at saturated mixture vapour/air (air=1)
Solubility	Infinite g/100 ml in water @ 20 °C
Partition coefficient: n-octano;/water	-2.6
Auto-ignition temperature	400 °C (Cleveland closed cup)
Decomposition temperature	Not available
Viscosity	Not available
Density @ 20 °C	1.2635 - 1.2651 g /ml
1.2635 - 1.2651 g /ml	92.1

SECTION 10. STABILITY AND REACTIVITY

Reactivity :	Vapour mixes readily with air
Chemical stability :	Able to polymerise above 149 deg C. Decomposes when heated above 290 deg C
Possibility of hazardous reactions :	None Known
Conditions to avoid :	None Known
Incompatible materials	Reacts violently with strong oxidants
Hazardous decomposition products :	Low toxicity and not considered hazardous to human beings

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (Oral, rat) = >12600 mg/kg LD50 (Oral, rat) = >12600 mg/kg
Skin corrosion/irritation:	LD50 rabbit >10 gm/kg, not irritating (Draize test)

Group of Chemicals: Glycerol SDS no:654
Commercial Name : Refined Glycerine Updated : Aug 2018
Common Name/Other Name: Glycerine 99.5%/1,2,3-Propanetriol Date issue : Aug 2018

Serious eye damage/irritation : Not irritating (OECD 405)
Respiratory or skin sensitization : No sensitization reactions.
Germ cell mutagenicity : Not mutagenic (Ames test)
Carcinogenicity : Not available
Reproductive toxicity : Not available
STOST-single / repeated exposure : Not available
Aspiration hazard : Not available

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity :

Acute fish toxicity : LC 50 >1000 mg product/1.
Carp, LC50 : >1000 mg/ L (48h) ;
 Acute bacteria toxicity : EC 50 >10000 mg product/1.
Daphnia magna, EC50:>1000mg/L(3h)

Persistence and degradability : Readily biodegradable, OECD 301
Bioaccumulative potential : Log P octanol/water = -2.6
Mobility in soil : Not available
Other adverse effect Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal method : Waste incineration with the approval of the responsible local authority

SECTION 14. TRANSPORT INFORMATION

UN Number : None

UN Proper shipping Name : None

Transport Hazard Class : Not hazardous according to RID/ADR, GGVS/GGVE, ADN, IMDG, ICAO-TI/IATA-DGR

