



Material Safety Data Sheet

Refined Glycerin 99.5% Min USP

Section 1 - Chemical Product Identification

MSDS Name: Refined Glycerin 99.5% Min USP
Synonyms: Glycerol; 1,2,3-Propanetriol; Glyceritol; Glycic Alcohol; 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol
CAS No.: 56-81-5
Chemical Formula: C₃H₅(OH)₃
Product Use: Pharmaceutical, food, cosmetics and industrial applications
Manufacturer: Global Green Chemicals Public Company Limited
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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
56-81-5	Refined Glycerin	99.5 min	200-289-5

Section 3 - Hazards Identification

Emergency Overview:

This is expected to be none hazard for intended purpose with normal industrial hygiene.

Potential Health Effects:

Inhalation: Irritation not expected.
Ingestion: Unlikely to be harmful unless excessive amount.
Skin Contact: Irritation not expected.
Eye Contact: Irritation not expected.

If product is heated, vaporization can occur. Eye and upper respiratory irritation may occur.

Section 4 - First Aid Measures

After inhalation:

Remove to fresh air.

After ingestion:

Rinse out mouth, drink plenty of water. If symptoms develop, get medical attention.

After skin contact:

Wash thoroughly with water and soap. Remove contaminated clothes.

After eye contact:

Immediately flush with plenty of water. If symptoms develop, get medical attention.



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Section 5 - Fire Fighting Measures

Flash Point: >390 F (198.9°C)
Autoignition Temperature : 752 F (400°C)

Fire Extinguishing Media:

Use water, dry chemical, carbon dioxide, or appropriate foam.

Special hazards caused by the material, its products of combustion or resulting gases:

Contact with strong oxidizing agents such as nitric acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.

Special protective equipment for fire fighters:

Wear protective breathing equipment and full protective clothing.

Section 6 - Accidental Release Measures

General Information:

Danger of slipping on escaped product. Use proper personal protective equipment as indicated in Section 8.

Personal Precautions:

Wear personal protective clothing and appropriate NIOSH approved respirator if mist or vapor is generated.

Environmental Precautions:

Do not allow to enter drainage system, surface or ground water.

Measures for cleaning/collection:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitably labeled containers for disposal at approved site.

Refer to Section 8 for additional personal protection information.

Refer to section 13 for disposal considerations.

Section 7 - Handling and Storage

Handling:

No special precautions required, but avoid eye and skin contact as part of normal industrial hygiene. Prevent formation of mist. Eye and skin contact should be avoided if handling at elevated temperatures.

Storage:

Keep in a tightly closed container and store upright to prevent any run-out of product. Store in a cool, dry, well-ventilated area, away from incompatible substances.

Refer to section 6 for clean-up of spillages.

Refer to Section 13 for disposal considerations.



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Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

No special measures required.

Ventilation:

Local exhaust preferred. Mechanical (general) acceptable.

Personal Protective Equipment:

Respiratory Protection:

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type P95 or R95 filters) may be worn for up to ten times the exposure limit, or respirator supplier, whichever is lowest. Please note that N filters are not recommended for this material.

Hand Protection:

Suitable protective gloves.

Body Protection:

Chemical boots and full protective clothing may be required.

Eye Protection:

Protective goggles or face shield with goggles.

Section 9 - Physical and Chemical Properties

Physical State:	Viscous liquid
Appearance:	Clear, colorless
Odor:	Odorless; sweet taste
pH:	Neutral to litmus
Vapor Pressure:	0.0025 mbar @ 50°C
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	1300 mPa.s at 20°C
Boiling Point:	Approx. 290°C
Melting Point:	Approx. 18°C
Solubility:	Miscible in water
Specific Gravity:	1.26 @ 20°C

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under ordinary conditions of use and storage.

Conditions to Avoid:

No decomposition if used according to specification.

Materials to Avoid:

Contact with strong oxidizing agent such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate.

Hazardous Decomposition Products:

Does not decompose up to 204 C (400 F) Thermal decomposition may release acrolein.



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Section 11 - Toxicological Information

Ingestion:

Acute oral toxicity: LD₅₀ > 2000 mg/kg (rat)

Section 12 - Ecological Information

The following data are estimated on the basis of the raw materials contained in the product and/or of structurally comparable substances.

Persistence and degradability:

Readily and rapidly degradable

Mobility and bioaccumulation potential:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Aquatic Toxicity:

Acute fish toxicity LC50 > 10 to 100 mg product/l

Section 13 - Disposal Considerations

Disposal is to be performed in compliance with all Federal, State/Provincial and local regulations. Do not dispose into sinks, drains or into the immediate environment.

Section 14 - Transport Information

Not a hazardous material according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.

Section 15 - Regulatory Information

Observe normal safety regulations when handling chemicals. Not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials

R-phrases : Not applicable.

S-phrases : Not applicable.

Section 16 - Additional Information

The given information is based on our present knowledge and subject to the product in the delivery state. The instruction provided is only for safety and environmental requirements and is not intended to guarantee any specific product features and shall not form any contractual validity for legal purposes.