SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS · SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Glycerin (USP Grade) *SDS*

REV 1.0
8 NOVEMBER 2026
GHS REV.11 (2025)

CAS **56-81-5** EC **200-289-5** SIGNAL WORD **NONE**

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Glycerin (USP Grade) — Refined Glycerine 99.7% min
Product Type	Glycerol, USP grade (substance)
Chemical Family	Polyol (triol) — 1,2,3-propanetriol
CAS No.	56-81-5
EC No.	200-289-5
Grade	USP — United States Pharmacopeia (USP-NF 2026); glycerol 99.7% min
Intended Use	Pharmaceutical manufacturing and industrial use (humectant, solvent, excipient).
Restrictions on Use	Confirm suitability and regulatory status for the final application (pharmaceutical, food, cosmetic) before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Raj Kumar — +91 86675 84068 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/glycerin-usp
SDS Revision	November 2026
SDS Version	1.0

SECTION 2 HAZARD IDENTIFICATION

> Not classified as hazardous: based on available data the GHS classification criteria are not met.

GHS Classification	Not classified as hazardous

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

Signal Word	Not classified
GHS Pictograms	None — substance is not GHS-classified
Other Hazards	May be combustible at high temperature. Hygroscopic. On heating it decomposes with evolution of toxic acrolein.

HAZARD STATEMENTS

- None — not classified as hazardous.

PRECAUTIONARY STATEMENTS

- None required. Handle in accordance with good industrial hygiene and safety practice.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Glycerin (glycerol)	56-81-5	200-289-5	≥ 99.7 (water 0.3 max)	Not classified as hazardous

Single-constituent substance. No additional ingredients are present that are classified as health hazards (Medisca USP glycerin SDS). Percentage per SPC TDS (glycerol 99.7% min; water 0.3% max).

SECTION 4 FIRST AID MEASURES

Inhalation	Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen. Call a physician.
Skin Contact	Wash with soap and water for 15 minutes. If irritation persists, seek medical aid.
Eye Contact	Flush with copious amounts of water for 15 minutes, separating the eyelids with fingers. If irritation persists, seek medical aid.
Ingestion	Rinse mouth with water. Do not induce vomiting without medical advice. Call a physician.
Symptoms	Not expected to present a significant hazard under anticipated conditions of normal use. Swallowing large amounts may cause headache, nausea, vomiting, diarrhoea, dizziness, thirst.
Note to Physician	Treat symptomatically.

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Small fire: dry chemical, CO_2 or water spray. Large fire: dry chemical, CO_2, alcohol-resistant foam or water spray.
Unsuitable Media	Do not scatter spilled material with high-pressure water streams. Do not get water inside containers.
Specific Hazards	May be combustible at high temperature (flash point 177 °C, open cup). Under fire conditions hazardous fumes will be present.
Hazardous Combustion Products	Carbon oxides; toxic acrolein on heating / decomposition.
Protective Equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Wear appropriate personal protective equipment (Section 8). Evacuate unnecessary personnel.
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into the sewerage system or drains.
Containment / Clean-up	Soak up with inert absorbent material (e.g. vermiculite). On land, sweep or shovel into suitable, labelled containers for disposal. Ventilate and clean the affected area.
Reference to Sections	See Section 7 for handling, Section 8 for personal protection and Section 13 for disposal.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle in accordance with good industrial hygiene and safety practice.
Hygiene	Wash thoroughly after handling.
Storage Conditions	Store in the original container, tightly sealed, protected from direct sunlight and moisture (the product is hygroscopic). Keep in a dry, well-ventilated place. Keep opened containers carefully resealed and upright.
Conditions to Avoid	Moisture, sunlight and extreme temperatures.

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

Incompatible Materials	Strong oxidising agents — see Section 10.
Packaging (per SPC TDS)	250 kg new HDPE drums.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Glycerin mist: ACGIH TLV-TWA 10 mg/m³. OSHA PEL-TWA 15 mg/m³ (total particulate) and 5 mg/m³ (respirable fraction). India: No data available (no limit in reviewed sources).
Engineering Controls	Showers, eyewash stations and ventilation systems. Adequate mechanical ventilation.
Eye / Face Protection	Safety glasses with side shields or chemical safety goggles.
Hand / Skin Protection	Protective nitrile rubber gloves. Impervious protective clothing, including boots, lab coat, apron or coveralls as appropriate to prevent skin contact.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required; use an approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, syrupy liquid; hygroscopic.
Odour	Odourless or slight characteristic odour.
Odour Threshold	No data available
pH	5 – 7.5 (1% solution)
Melting / Freezing Point	17 – 18 °C
Boiling Point	290 °C (101.325 kPa); decomposes
Flash Point	177 °C (open cup)
Evaporation Rate	No data available
Flammability	May be combustible at high temperature.
Lower / Upper Explosive Limit	LEL 0.9 % (v/v); UEL No data available
Vapour Pressure	Negligible at 20 °C
Vapour Density (air = 1)	3.17
Relative Density (water = 1)	1.261; specific gravity ≥ 1.249 at 25 °C (SPC TDS spec)
Solubility	Miscible with water and alcohol; insoluble in chloroform, ether and fixed and volatile oils.
Partition Coefficient (log Pow)	-1.76

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

Auto-ignition Temperature	393 °C
Decomposition Temperature	290 °C
Viscosity	1300 mPa·s at 20 °C
Molecular Weight	92.09 g/mol ($C_3H_8O_3$)
Explosive / Oxidising Properties	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Violent or explosive reactions can occur with many solid oxidants.
Chemical Stability	Stable under recommended storage conditions. Pure glycerin is not prone to oxidation by the atmosphere under ordinary conditions.
Conditions to Avoid	Moisture, sunlight and extreme temperatures.
Incompatible Materials	Strong oxidising agents such as nitric acid or other strong acids, chromium trioxide, potassium chlorate and potassium permanganate may cause an explosion.
Hazardous Decomposition	Decomposes on heating with evolution of toxic acrolein; carbon oxides in fire.
Hazardous Polymerisation	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD_{50} (rat, oral) = 12,600 mg/kg. Not classified.
Acute Dermal Toxicity	LD_{50} (rabbit, dermal) = 10,000 mg/kg. Not classified.
Acute Inhalation Toxicity	LC_{50} (rat, 4 h) > 2.75 mg/L. Not classified.
Skin Irritation	Draize test, rabbit (500 mg): mild irritation. Human, 50% solution: non-irritating. Classification criteria not met.
Eye Irritation	Draize test, rabbit (500 mg, 24 h): mild irritation. Human: non-irritating. Classification criteria not met.
Sensitisation	Non-sensitising in human patch test and in guinea pig. Classification criteria not met.
Germ Cell Mutagenicity	Due to lack of data, classification is not possible.
Carcinogenicity	IARC: not evaluated. NTP: not listed. OSHA: not listed.
Reproductive Toxicity / STOT / Aspiration	Due to lack of data, classification is not possible.
Ingestion — Further Information	Small amounts swallowed incidentally in normal handling are not likely to cause injury; swallowing larger amounts may cause injury.

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

	Glycerin used as a multipurpose food substance is generally recognised as safe when used in accordance with good manufacturing practice.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Fish: LC_{50} (Oncorhynchus mykiss, 96 h) = 51,000 – 57,000 mg/L. Daphnia magna: EC_{50} (24 h) > 500 mg/L. Algae: No data available.
Persistence / Degradability	Readily biodegradable (OECD 301).
Bioaccumulation	Low potential. Log Pow = -1.76.
Mobility in Soil	Miscible with water; low potential for sorption to soil. Partitions primarily to water.
Other Adverse Effects	No data available. Not intended to be released into the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of in accordance with federal / local laws and regulations through an authorised waste contractor. Avoid release into the environment.
Contaminated Packaging	Do not reuse empty containers. Dispose of contents / containers in accordance with local regulations.
Indian Regulations	Manage disposal under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable SPCB / CPCB requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not applicable	Not applicable	Not applicable
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	No	No	—

Glycerin is not classified as dangerous goods for transport (DOT, TDG, IMDG, IATA, ADR). Verify current carrier rules and consignment requirements before shipment.

SUPREME PETRO CHEMICALS
IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS · SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	EC No. 200-289-5. Not classified under CLP. Not listed in REACH Annex XIV (authorisation) or Annex XVII (restrictions).
USA	Not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Listed on the TSCA inventory. Contains no California Proposition 65 chemicals.
Canada	Listed on the DSL.
India	Observe applicable Indian regulations, including the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, the Environment (Protection) Act, 1986, the Factories Act, 1948 and the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Confirm current occupational exposure limits with the relevant State / Central authority.
Pharmacopoeial Status	Grade as certified by the manufacturer's certificate of analysis (USP-NF 2026). Pharmacopoeial compliance is determined by the batch certificate of analysis, not by this safety data sheet.

SECTION 16 OTHER INFORMATION

Prepared By	**Supreme Petro Chemicals** — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	8 November 2026
Version	1.0 (new issue)
Key Sources	Medisca "Glycerin, USP" SDS (rev. 01/2023); Columbus Chemical "Glycerin USP" SDS 2445 (rev. 05-Jun-2025); Alliance Chemical "Glycerin USP Grade" SDS (rev. 05/28/2026); Thermo Fisher Scientific glycerol SDS (rev. 03-Dec-2015); SPC TDS SPC-TDS-GLY-013 (Vance Bioenergy CoA, batch D260526-13-1). Full list in scripts/sds-batch/sources-2026-11.md.
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance with all applicable laws and regulations. **Supreme Petro Chemicals** is a trader and distributor, not the manufacturer.

SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS · SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
Raj Kumar +91 86675 84068
Sudarshan +91 81979 47045
admin@supremepetrochemicals.com

FULL TEXT OF H-STATEMENTS

- None — glycerin carries no GHS hazard statements based on available data.