



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Glycerine *SDS*

CAS 56-81-5 EC 200-289-5 SIGNAL WORD **DANGER**

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

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

Product Name	Glycerine
Product Type	Glycerol — industrial chemical
Chemical Family	Polyol (triol)
CAS No.	56-81-5
EC No.	200-289-5
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/glycerine
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous according to GHS / UN GHS Rev.11 (2025) criteria based on available data.

GHS Classification	Not classified as hazardous
Signal Word	Not classified
GHS Pictograms	None — substance is not GHS-classified

HAZARD STATEMENTS



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- None — Glycerine is not classified as hazardous under GHS.

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Glycerine (Glycerol)	56-81-5	200-289-5	100	Not classified as hazardous according to GHS criteria based on available PubChem / ECHA data.

Percentages are by weight. Full text of H-statements listed in Section 16. EC No. confirmed from ECHA C&L Inventory.

SECTION 4 FIRST AID MEASURES

Inhalation	Move person to fresh air. If symptoms (respiratory irritation) persist, seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation develops or persists.
Eye Contact	Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large quantities ingested or symptoms develop.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Glycerine has low acute toxicity; supportive care is generally sufficient.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide (CO ₂), foam. Water is the preferred agent for glycerine fires.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Combustible liquid with high flash point (~160°C). Dust or fine mist may form combustible atmospheres. Fire may produce toxic carbon oxides and irritating fumes. Containers may rupture when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel.
Special Procedures	Prevent contaminated run-off from entering drains and waterways. Cool fire-exposed containers with water spray from a safe distance.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Wear appropriate PPE as specified in Section 8. Avoid contact with skin and eyes. Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Inform local authorities if environmental contamination occurs.
Containment / Clean-up	Contain spill with inert absorbent material (sand, vermiculite, earth). Collect material into labelled, compatible containers for disposal through an approved waste contractor. Flush residual with water.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid prolonged contact with skin and eyes. Avoid inhalation of vapour or mist. Keep container tightly closed when not in use. Use explosion-proof equipment where vapour may accumulate (high temperature operations).
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers (stainless steel, high-density polyethylene, or lined steel drums). Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (typically 15–30°C). Glycerine solidifies near 18°C — gentle warming to ~25°C restores liquid state without product degradation.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine), concentrated acids, and halogens. See Section 10.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store away from ignition sources at elevated temperatures.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Glycerine mist (CAS 56-81-5): OSHA PEL (mist) = 15 mg/m ³ (total dust), 5 mg/m ³ (respirable). ACGIH TLV-TWA = 10 mg/m ³ (aerosol).
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No Indian OEL established; apply ALARA and good industrial hygiene. Confirm current local limits with regulatory authority before use.

Engineering Controls

Use closed handling systems or local exhaust ventilation for operations generating mist, vapour or aerosol. Explosion-proof ventilation for high-temperature processing. Provide eyewash station and safety shower where appropriate.

Respiratory Protection

Generally not required for ambient temperature handling. For mist or aerosol generating operations, use a NIOSH-approved P95/P100 particulate respirator. Use SCBA for emergency or high-concentration scenarios.

Hand / Eye / Skin

Gloves: chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select for breakthrough time appropriate to task. Eye/Face: chemical splash goggles (EN 166 / ANSI Z87.1); face shield for splash risk. Body: chemical-resistant apron or coveralls; safety footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, viscous liquid (syrupe); colourless solid when below melting point.
Odour	Mild, sweet, characteristic odour.
Odour Threshold	Not established in reviewed public sources.
pH	Neutral to slightly basic (aqueous solution ~6–7.5). Verify from supplier COA/SDS for specific grade.
Melting / Freezing Point	17.8°C (64°F) — NTP, 1992
Boiling Point / Range	290°C (554°F) at 760 mmHg — decomposes — NTP, 1992
Flash Point	160°C (320°F) — closed cup — NTP, 1992
Auto-ignition Temperature	370°C (698°F) — USCG, 1999
Flammability Limits	See supplier SDS for grade-specific LEL/UEL data. Not readily available in reviewed public sources.
Vapour Pressure	0.0025 mmHg at 50°C (122°F); ~40 mmHg at 198°C (388°F) — NTP, 1992. Very low at ambient temperature.
Vapour Density (air = 1)	3.17 — heavier than air; will sink — NTP, 1992
Relative Density	1.261 at 20°C (68°F) — denser than water — USCG, 1999
Solubility in Water	Miscible in all proportions (≥100 mg/mL at 18°C / 64°F) — NTP, 1992
Log Pow (Partition Coeff.)	–1.76 (log Kow) — QC reviewed, confirmed value
Evaporation Rate	Very low — see supplier SDS for grade-specific value.
Viscosity	954 cP at 25°C (pure); 17 cP at 25°C (70% aqueous solution)



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VOC Content	Not classified as VOC under typical regulatory definitions. Assess under applicable regional VOC regulations.
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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above flash point, ignition sources, open flames, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature – not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may be formed in fire or on thermal decomposition above ~290°C.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity. LD ₅₀ (rat, oral) = 12,600 mg/kg (RTECS). Not classified under GHS.
Acute Dermal Toxicity	Low dermal toxicity. LD ₅₀ (rabbit, dermal) > 10,000 mg/kg (literature). Not classified under GHS.
Acute Inhalation Toxicity	Low inhalation hazard at ambient temperatures due to very low vapour pressure. LC ₅₀ data not established; not classified under GHS.
Skin Irritation	Mild skin irritant at most. Generally considered non-irritating; used in cosmetic / pharmaceutical grade products. Not classified.
Eye Irritation	May cause mild transient eye irritation. Not classified for serious eye damage.
Sensitisation	Not a known skin or respiratory sensitiser.
Carcinogenicity	Not classified as carcinogenic by IARC, NTP, ACGIH or OSHA.
Mutagenicity	No mutagenic activity reported in standard Ames test studies. Not classified.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Low acute aquatic toxicity. EC ₅₀ (Daphnia magna, 48h) > 1,000 mg/L (literature). Not classified for acute aquatic hazard.
Persistence / Degradability	Readily biodegradable (BOD/COD ratio confirms rapid aerobic biodegradation). No persistence concerns under normal conditions.
Bioaccumulation	Low bioaccumulation potential. Log Kow = -1.76 — does not accumulate in the food chain.
Mobility in Soil	High water solubility and low log Kow indicate high mobility in soil and groundwater. Prevent release to soil and groundwater.
Other Adverse Effects	No known ozone-depleting potential. Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local regulations. Glycerine is biodegradable; dilute aqueous waste may be suitable for controlled municipal disposal — confirm with local authority.
Contaminated Packaging	Empty containers may retain residues; handle as potentially hazardous until cleaned or disposed of. Rinse containers thoroughly before reuse or disposal. Offer cleaned containers for recycling.
Indian Regulations	Manage disposal under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and applicable SPCB / CPCB requirements. Follow local Pollution Control Board requirements for waste generation, storage, transport and disposal.

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 regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Marine Pollutant	No	No	—

Glycerine (CAS 56-81-5) is not subject to transport regulations under ADR, IMDG or IATA DGR based on available public data. No UN transport entry found. Use approved, compatible containers for shipment. UN-certified drum recommended for international transport. Verify current carrier rules and consignment requirements before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Glycerine is registered under REACH (EC No. 200-289-5). Not classified under EU CLP. Observe REACH obligations (registration, communication in supply chain). Check current C&L Inventory on ECHA for updates.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. Glycerine is listed on TSCA inventory. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, 1989, Hazardous Chemicals Rules, Environment Protection Act, Factories Act, Water and Air (Prevention and Control of Pollution) Acts, and Hazardous Waste Management Rules. Confirm OEL with relevant State / Central authority.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify/label under Section 2 classification; Canadian sale may require bilingual SDS and ingredient disclosure. China (GB standards): apply GB/T SDS format where marketed. Australia (AICS): check inventory status before export or import. Middle East / GCC: apply GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

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	24 June 2026
Version	3.0 (supersedes prior issues)



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Key Sources

SPC product page; SPC SDS template; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem (CID 753), ECHA (EC 200–289–5), NIOSH/OSHA, CAMEO and public supplier SDS/transport references. NTP (1992); USCG (1999); RTECS. Accessed June 2026.

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.

FULL TEXT OF H-STATEMENTS

- None — Glycerine (CAS 56–81–5) carries no GHS Hazard Statements under UN GHS Rev.11 (2025) based on available data.