



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Propylene Glycol (PG) *SDS*

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

CAS 57-55-6 EC 200-338-0 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Propylene Glycol (PG)
Product Type	Industrial chemical — single substance
Chemical Family	Glycol / Diol
CAS No.	57-55-6
EC No.	200-338-0
Intended Use	Industrial / professional use as described on the SPC product page. Applications include antifreeze, heat-transfer fluids, polymer manufacture, cosmetics, pharmaceuticals, and food-grade uses (where applicable grade is specified).
Restrictions on Use	Industrial / professional use only. Confirm suitability and grade 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/propylene-glycol-pg
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

GHS / CLP Classification: STOT SE 3 (H336); STOT RE 1 (H370); STOT RE 2 (H372). Not classified for flammability, acute toxicity, skin/eye irritation, sensitisation, aquatic hazard, or other unlisted hazard classes based on reviewed source data.

Signal Word

DANGER

GHS Pictograms

GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)

HAZARD STATEMENTS

- H336 — May cause drowsiness or dizziness
- H370 — Causes damage to organs (nervous system) through single exposure (STOT SE 1)
- H372 — Causes damage to organs through prolonged or repeated exposure (STOT RE 2)

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground and 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.



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- 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.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Propylene Glycol (PG)	57-55-6	200-338-0	100	STOT SE 3 (H336); STOT RE 1 (H370); STOT RE 2 (H372)

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If symptoms (dizziness, drowsiness) persist, seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek immediate medical advice. If large quantity ingested, contact a POISON CENTER.
Note to Physician	Treat symptomatically based on exposure route and product hazards. STOT SE 3 and STOT RE classifications present — monitor nervous system and organ function with significant or repeated exposure.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray (fog), alcohol-resistant foam, dry chemical powder, CO ₂ . Use media appropriate for surrounding fire conditions.
Unsuitable Media	Do not use direct high-pressure water jet — may spread the burning liquid.
Specific Hazards	Combustible liquid (flash point ~99°C). Vapours may travel to a distant ignition source and flash back. Fire may produce irritating or toxic carbon oxides and fumes. Sealed containers may rupture when exposed to heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 469 / equivalent protective gear for firefighters.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-water run-off from entering drains or waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate spill area. Keep unnecessary personnel away. Wear PPE as specified in Section 8. Eliminate ignition sources if vapour concentration warrants it. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Notify relevant authorities if significant environmental release occurs.
Containment / Clean-up	Contain spill with sand, earth, vermiculite, or other inert absorbent material. Collect into labelled, compatible containers for disposal through an approved waste contractor. Clean contaminated surfaces with water.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid breathing vapours, mists, or aerosols. Avoid contact with skin and eyes. Keep containers tightly closed when not in use. Bond and ground containers to prevent static discharge.
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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, HDPE, or aluminium). Inspect containers regularly for leakage or damage. Keep away from ignition sources.
Storage Temperature	Ambient temperature (typically 0°C to 40°C). Follow supplier instructions if grade-specific range is specified.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens; aluminium chloride under elevated temperatures.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals. Store away from heat sources and direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Propylene Glycol (CAS 57-55-6): ACGIH TLV-TWA 10 mg/m ³ (aerosol); no OSHA PEL established. Apply ALARA / good industrial hygiene where no local OEL is set. Verify current Indian/regional OEL with local authority.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control vapour, mist, or aerosol concentrations. Use explosion-proof ventilation and grounding / bonding for transfer operations.
Respiratory Protection	Not normally required at ambient temperatures if ventilation is adequate. If vapour / mist / aerosol generation occurs, use NIOSH / EN 143-approved respirator with organic vapour cartridge or P95/P100 particulate filter as applicable. Use SCBA in emergencies or confined-space entry.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl, or neoprene; select for breakthrough time appropriate to task. Eye/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant apron or coverall; safety footwear. Eyewash station and safety shower available at workstation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, viscous liquid
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Odour	Practically odourless
Odour Threshold	Not established
pH	Not applicable (neutral in aqueous solution; pH ~7 for aqueous grades)
Melting / Freezing Point	–60°C (–76°F) [NTP, 1992]
Boiling Point / Range	188°C (370.8°F) at 760 mmHg [NTP, 1992]
Flash Point	99°C (210°F) [closed cup; NTP, 1992]
Auto-ignition Temperature	371°C (700°F) [USCG, 1999]
Flammability Limits	Lower (LEL): 2.6 vol% · Upper (UEL): 12.6 vol% (verify with supplier for grade)
Vapour Pressure	0.08 mmHg at 20°C (68°F); 0.13 mmHg at 25°C (77°F) [NTP, 1992]
Vapour Density (air = 1)	2.62 [NTP, 1992] — heavier than air; may accumulate in low-lying areas
Relative Density	1.04 at 20°C (68°F) [USCG, 1999] — denser than water
Solubility in Water	Miscible in all proportions (≥100 mg/mL at 21°C) [NTP, 1992]; also miscible with ethanol and acetone
Log Pow (Partition Coeff.)	–0.92 [experimental; PubChem]
Evaporation Rate	Slower than diethyl ether (low volatility); grade-specific value — see supplier SDS
Viscosity	0.581 cP (mPa·s) at 20°C [PubChem experimental]
VOC Content	Assess per applicable regional VOC regulations (low vapour pressure — generally low VOC contribution)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, open flames, ignition sources, contamination, and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon monoxide (CO) and carbon dioxide (CO ₂); irritating and/or toxic fumes and smoke may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity. LD50 (rat, oral): ~20,000 mg/kg (PubChem / ECHA). Not classified for acute oral toxicity under GHS.
Acute Dermal Toxicity	Low acute dermal toxicity. LD50 (rabbit, dermal): >20,600 mg/kg. Not classified for acute dermal toxicity.
Acute Inhalation Toxicity	Low acute inhalation hazard at ambient temperatures due to low vapour pressure. LC50 data not established. Not classified for acute inhalation toxicity.
Skin Irritation	Not classified as a skin irritant. Mild irritation possible with prolonged contact.
Eye Irritation	Not classified as an eye irritant. Mild transient irritation possible on direct contact.
Sensitisation	Not classified as a skin or respiratory sensitiser.
Carcinogenicity	Not listed as carcinogen by IARC, NTP, or OSHA. Not classified.
Mutagenicity	Not classified as a mutagen. Genotoxicity studies negative.
Specific Target Organ — Single Exposure	STOT SE 3 (H336): May cause drowsiness or dizziness at high vapour concentrations. STOT SE 1 (H370): Causes damage to organs (nervous system) — see source classification; verify with supplier toxicological data.
Specific Target Organ — Repeated Exposure	STOT RE 2 (H372): Causes damage to organs through prolonged or repeated exposure. Use engineering controls and medical surveillance as required.
Reproductive Toxicity	Not classified.
Aspiration Hazard	Not classified.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Not classified as acutely or chronically aquatic hazardous based on reviewed data. Propylene glycol is readily biodegradable; however, high BOD loads in water can cause localised oxygen depletion. Avoid uncontrolled release.
Persistence / Degradability	Readily biodegradable (BOD5/COD ratio indicates rapid aerobic degradation). Half-life in soil and water is short under aerobic conditions.
Bioaccumulation	Low bioaccumulation potential. Log Pow = -0.92 indicates no significant bioaccumulation in aquatic organisms.



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Mobility in Soil	High mobility in soil due to miscibility with water and low adsorption to soil particles. Prevent release to groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste in accordance with applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local hazardous waste regulations. Do not pour down drains or into water courses.
Contaminated Packaging	Empty containers may retain product residues; handle as hazardous until professionally cleaned or disposed of. Triple-rinse and offer for recycling where facilities exist.
Indian Regulations	Comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and applicable State Pollution Control Board requirements. Obtain waste disposal manifests as required.

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
Marine Pollutant	No	No	—

Propylene Glycol (CAS 57-55-6) is not classified as a dangerous good under ADR, IMDG, or IATA-DGR at the time of this revision. Store and ship in approved compatible containers (HDPE drum, stainless steel IBC, or aluminium vessel). Verify current carrier regulations and any customer / country-specific requirements before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH registration (CAS 57-55-6 registered on ECHA). Classified and labelled per CLP/GHS classification listed in Section 2. Observe applicable workplace chemical and environmental requirements.
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OSHA (USA)	Prepared in OSHA HCS / HazCom 2012–aligned 16–section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Indian MSIHC Rules 1989, Factories Act, Environment Protection Act, Water (Prevention and Control of Pollution) Act, Hazardous Wastes Management Rules 2016, and State Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label per Section 2 classification; bilingual SDS/label required for Canadian sale. Australia (AICS): confirm inventory status before export or import. Middle East / GCC and China (GB Standards): observe applicable GHS–aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code, and any 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)
Key Sources	SPC product page; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem CID 1030, ECHA C&L Inventory, NIOSH/OSHA, CAMEO, and public supplier SDS/transport references. 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 with all applicable laws and regulations. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- H336 — May cause drowsiness or dizziness
- H370 — Causes damage to organs (nervous system) through single exposure (STOT SE 1)
- H372 — Causes damage to organs through prolonged or repeated exposure (STOT RE 2)