



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)

Diethylene Glycol (DEG) *SDS*

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

CAS 111-46-6 EC 203-872-2 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Diethylene Glycol (DEG)
Product Type	Industrial chemical — pure substance
Chemical Family	Glycol / polyether diol
CAS No.	111-46-6
EC No.	203-872-2
Intended Use	Industrial / professional use: solvent, humectant, antifreeze intermediate, plasticiser intermediate, gas-drying agent, brake fluid component, and chemical synthesis feedstock.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use. Not for food-contact or pharmaceutical end-use without regulatory confirmation.
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/diethylene-glycol-deg
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

GHS/CLP Classification: Acute Tox. 4 (Oral) – H302; Repr. 2 – H361; STOT RE 1 – H372

GHS Classification	Acute Tox. 4 (Oral); Repr. 2; STOT RE 1
Signal Word	DANGER
GHS Pictograms	GHS07 (Harmful / Irritant) GHS08 (Health Hazard)
Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed source data.

HAZARD STATEMENTS

- H302 – Harmful if swallowed
- H361 – Suspected of damaging fertility or the unborn child
- H372 – Causes damage to organs through prolonged or repeated exposure

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.



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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
Diethylene Glycol (DEG)	111-46-6	203-872-100 2		Acute Tox. 4 (Oral) — H302; Repr. 2 — H361; STOT RE 1 — H372

Full text of H-statements listed in Section 16. Percentages are by weight (w/w).

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.
Note to Physician	Treat symptomatically based on exposure route and product hazards. DEG is metabolised to 2-hydroxyethoxyacetic acid (HEAA) which is nephrotoxic; monitor renal function in significant ingestion cases.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, CO ₂ , dry chemical powder, water spray/fog. Water spray may be used to cool exposed containers.
Unsuitable Media	High-pressure water jet directed at burning liquid (may spread fire).
Specific Hazards	Combustible liquid (flash point 143°C). Thermal decomposition produces carbon monoxide (CO), carbon dioxide (CO ₂), and irritating/toxic fumes. Containers may rupture or explode when exposed to intense heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 469 / equivalent fire-fighting gear.
Special Procedures	Evacuate non-essential personnel. Apply water spray to cool containers and surrounding equipment. Prevent contaminated fire-fighting run-off from entering drains and waterways. Collect run-off for disposal.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the release area. Keep non-essential personnel away. Wear PPE as specified in Section 8. Eliminate ignition sources. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. If release reaches waterways or soil, notify relevant environmental authority.
Containment / Clean-up	Contain spill using sand, earth, or other non-combustible absorbent material. Collect absorbed material into labelled, compatible, sealable containers for disposal through an approved waste contractor. Flush residual area 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 (local exhaust or general). Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapours or mists. Bond and earth containers when transferring to prevent static discharge. Use non-sparking tools.
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Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse or laundering. Do not eat, drink, or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers (stainless steel, mild steel, or HDPE). Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (15–30°C) unless supplier instructions specify otherwise. Protect from freezing (melting point approximately –10°C).
Incompatible Materials	Strong oxidising agents (e.g. nitric acid, permanganates, peroxides, halogens). Concentrated acids. Aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals. Store away from heat and ignition sources.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	DEG (CAS 111-46-6): No established Indian OSHA or EU OEL identified. ACGIH TLV-TWA: Not established separately (reference supplier/regional limits). Apply ALARA/good industrial hygiene principles. Verify current local OEL with competent authority before use.
Engineering Controls	Use closed-handling systems or local exhaust ventilation (LEV) to control vapour and mist. Use explosion-proof ventilation and electrical equipment. Provide eyewash stations and safety showers where risk of contact exists.
Respiratory Protection	Under normal industrial handling vapour pressure is low (0.01 mmHg at 20°C) and respiratory exposure is minimal. If vapour/mist concentrations exceed OEL or ventilation is inadequate, use a NIOSH/EN-approved organic vapour respirator or half-mask with OV cartridge. Use SCBA for emergency or high-concentration scenarios.
Hand / Eye / Skin	Gloves: Chemical-resistant nitrile, butyl rubber, or neoprene gloves; select breakthrough time appropriate to task duration. Eyes/Face: Chemical splash goggles (EN 166 / ANSI Z87.1); add face shield where splash risk exists. Skin/Body: Chemical-resistant apron and safety footwear. Antistatic footwear where vapour accumulation is possible.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, viscous liquid
Odour	Practically odourless
Odour Threshold	Not established
pH	Not applicable (neat liquid); aqueous solutions neutral to slightly acidic — verify from COA/supplier SDS.
Melting / Freezing Point	–10.5°C (14°F) [NTP, 1992]
Boiling Point / Range	245°C (473°F) at 760 mmHg [NTP, 1992]
Flash Point	143°C (290°F) — open cup [NTP, 1992]
Auto-ignition Temperature	229°C (444°F) [USCG, 1999]
Flammability Limits	Lower (LEL): ~1.6% v/v; Upper (UEL): ~10.8% v/v (verify from supplier SDS; values vary by test method)
Vapour Pressure	<0.01 mmHg at 20°C (68°F); 0.01 mmHg at 30°C (86°F) [NTP, 1992]; approx. 0.0057 mmHg at 20°C
Vapour Density (air = 1)	3.66 [NTP, 1992] — heavier than air; will sink and accumulate at low levels
Relative Density	1.118 at 20°C (68°F) [USCG, 1999] — denser than water; will sink
Solubility in Water	Miscible in all proportions (≥100 mg/mL at 20°C) [NTP, 1992]
Log Pow (Partition Coeff.)	–1.47
Evaporation Rate	Very slow (reference: butyl acetate = 1); see supplier SDS for grade-specific value
Viscosity	~35 mPa·s (cP) at 20°C — viscous liquid [FLAG: source text stated 0.30 cP at 25°C which is inconsistent with known DEG viscosity; corrected to literature value — verify with supplier COA]
VOC Content	Low; assess per applicable regional VOC regulations (high boiling point reduces contribution)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination, and incompatible materials. Avoid temperatures above flash point (143°C) in the presence of ignition sources.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride



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(AlCl₃) under elevated temperature — not a concern under ambient blending or storage conditions.

Hazardous Decomposition	Carbon monoxide (CO), carbon dioxide (CO ₂), and irritating or toxic fumes and vapours may be formed in fire or on strong heating.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions unless in contact with listed incompatibles.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Rat LD ₅₀ : ~12,565–20,800 mg/kg (low acute oral toxicity); classified Acute Tox. 4 (H302). See Section 2 classification.
Acute Dermal Toxicity	Rabbit LD ₅₀ : >2,000 mg/kg (not classified for dermal acute toxicity based on available data).
Acute Inhalation Toxicity	Low vapour pressure limits inhalation exposure under ambient conditions. Not classified for acute inhalation hazard based on available data.
Skin Irritation	Mild skin irritant on prolonged or repeated contact. Not classified as a skin irritant per GHS criteria based on reviewed data.
Eye Irritation	May cause mild transient eye irritation. Not classified as serious eye irritant/eye damage per GHS criteria based on reviewed data.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified. Not listed by IARC, NTP, or ACGIH as a carcinogen.
Mutagenicity	Not classified as a germ-cell mutagen based on available data.
Reproductive Toxicity	Classified Repr. 2 — H361: Suspected of damaging fertility or the unborn child. Based on animal studies; human relevance uncertain at occupational exposure levels. Apply precautionary exposure controls.
STOT — Repeated Exposure	Classified STOT RE 1 — H372: Causes damage to organs (kidneys) through prolonged or repeated exposure. Nephrotoxicity observed in animal studies and human poisoning cases (metabolite HEAA). Apply rigorous exposure controls and medical surveillance.
Aspiration Hazard	Not classified (high boiling point, high viscosity, low aspiration risk).



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity (Acute)	Not classified for acute aquatic hazard based on reviewed data. Fish LC ₅₀ (96h, <i>Leuciscus idus</i>): >5,000 mg/L. Daphnia EC ₅₀ (48h): >1,000 mg/L. Low acute aquatic hazard at typical environmental concentrations.
Aquatic Toxicity (Chronic)	No chronic aquatic classification identified from reviewed data. Obtain supplier/ecotoxicity data if needed for registration or export compliance.
Persistence / Degradability	Readily biodegradable under aerobic conditions (BOD ₅ /COD ratio indicates rapid degradation). May exert oxygen demand in aquatic environments; avoid bulk release.
Bioaccumulation	Low bioaccumulation potential (log Kow = –1.47; BCF expected <10). Does not significantly bioaccumulate.
Mobility in Soil	Highly water-soluble and miscible; high mobility in soil and groundwater. Prevent release to soil and drainage systems.
Other Adverse Effects	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/container through an authorised waste contractor in accordance with local, state, and national regulations. Do not pour into drains, sewers, or the environment.
Contaminated Packaging	Empty containers may retain product residues; handle as hazardous until cleaned or formally disposed. Recycle or dispose of packaging through an approved scheme.
Indian Regulations	Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 under the Environment Protection Act. Consult local State Pollution Control Board (SPCB) for waste classification and authorised disposal facilities. Assign waste code per actual process and local regulation.



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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	N/A	No	N/A

DEG is not listed as a dangerous good under ADR, IMDG, or IATA DGR based on reviewed source data. No UN transport number identified. Use approved compatible containers (UN-certified drum recommended for international shipment). Verify current carrier rules and classification before each shipment — regulations may change. Follow all applicable ADR / IMDG / IATA requirements.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Substance is registered under REACH (CAS 111-46-6; EC 203-872-2). Classified and labelled according to GHS/CLP as stated in Section 2. Observe applicable REACH obligations (SVHC screening, downstream user communication, exposure scenarios).
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution.
India	Observe applicable Indian regulations: Manufacture, Storage and Import of Hazardous Chemical Rules 1989 (MSIHC); Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016; Environment Protection Act 1986; Factories Act 1948; applicable SPCB requirements.
Canada (WHMIS / HPR)	Classify and label under WHMIS 2015 / HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
China (GB Standards)	Use applicable GB/T SDS and classification requirements where marketed in China.
Middle East / GCC	Observe applicable GHS-aligned local requirements.
Australia (AICS)	Check AICS inventory status before export or import.
Regulatory Scope Limitation	Final market placement requires confirmation of inventory status, local OELs, transport classification, waste code, and applicable restrictions. SPC supplies this SDS in good faith; end-user bears compliance responsibility for their jurisdiction.



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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)
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

- H302 — Harmful if swallowed
- H361 — Suspected of damaging fertility or the unborn child
- H372 — Causes damage to organs through prolonged or repeated exposure