



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)

Mono Ethylene Glycol (MEG)
SDS

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

CAS 107-21-1 EC 203-473-3 SIGNAL WORD DANGER

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Mono Ethylene Glycol (MEG)
Product Type	Industrial chemical — pure substance
Chemical Family	Glycol / Diol
CAS No.	107-21-1
EC No.	203-473-3
Intended Use	Industrial solvent, antifreeze intermediate, chemical synthesis, polymer / PET production, heat-transfer fluid, humectant
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/mono-ethylene-glycol-meg
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 4 (oral, inhalation); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 2

GHS Classification	Acute Tox. 4 (oral); Acute Tox. 4 (inhalation); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 (narcosis); STOT RE 2 (kidneys/central nervous system)
Signal Word	WARNING
GHS Pictograms	GHS07 (Harmful / Irritant) GHS08 (Health Hazard)

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H332 — Harmful if inhaled
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H373 — May cause damage to organs (kidneys, central nervous system) through prolonged or repeated exposure

PRECAUTIONARY — PREVENTION

- P233 — Keep container tightly closed.
- 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+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- 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.
- P312 — Call a POISON CENTER or doctor if you feel unwell.



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- P314 — Get medical advice/attention if you feel unwell.
- P331 — Do NOT induce vomiting.
- 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
Mono Ethylene Glycol (MEG)	107-21-1	203-473-3	≥ 99.5 (commercial grade)	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 2

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep comfortable for breathing. If symptoms persist or the person is unconscious, call emergency services. If not breathing, give artificial respiration.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or symptoms develop or persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do — then continue rinsing. Seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Call a POISON CENTER or doctor immediately. MEG is metabolised to toxic oxalic acid — medical observation is essential even if the patient appears asymptomatic.
Note to Physician	MEG is metabolised via glycolaldehyde and glyoxylate to oxalic acid, which can cause acute kidney failure and metabolic acidosis. Treat with ethanol or fomepizole (4-MP) if significant ingestion is suspected. Provide supportive care; haemodialysis may be required in severe cases.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, CO ₂ , dry chemical powder, water spray / mist. Water spray may be used to cool containers exposed to fire.
Unsuitable Media	Direct high-pressure water jet — may spread burning liquid and intensify fire.
Specific Hazards	MEG is combustible. Vapours may form flammable mixtures with air at elevated temperatures. Combustion produces carbon monoxide and carbon dioxide. Containers may rupture or explode when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 469 / NFPA 1971 fire-proximity suit recommended for enclosed fire scenarios.
Special Procedures	Evacuate non-essential personnel and isolate hazard area. Prevent contaminated fire-fighting run-off from entering drains, sewers and waterways. Cool exposed containers with water spray. Move containers from the fire area if safe to do so.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate PPE as described in Section 8. Eliminate ignition sources. Ventilate area. Keep non-essential personnel away. Avoid skin and eye contact and inhalation of vapours.
Environmental Precautions	Prevent entry into drains, sewers, watercourses and soil. MEG is biodegradable but exerts a significant BOD load on aquatic systems at high concentration. Notify authorities if significant release occurs.
Containment / Clean-up	Contain spill with sand, earth or other inert absorbent material. Collect material into clearly labelled, compatible closed containers for disposal through an approved waste contractor. Flush residual traces with large amounts of water.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory requirements.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use in well-ventilated areas or with local exhaust ventilation. Avoid skin and eye contact and inhalation of vapours/mist. Use grounded /
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	bonded containers and non-sparking tools when heating above flash point (111 °C).
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke during use. Provide eyewash station and safety shower in the work area.
Storage Conditions	Store in original, tightly closed, compatible containers (stainless steel, HDPE, carbon steel). Protect from heat and direct sunlight. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (5–35 °C recommended). MEG freezes at –13 °C; protect from prolonged freezing in outdoor tanks.
Incompatible Materials	Strong oxidising agents (nitric acid, chromic acid, permanganates, peroxides, chlorine), concentrated mineral acids, halogens. Reactive with aluminium chloride at elevated temperature.
Segregation	Segregate from food, animal feed, oxidising agents and incompatible chemicals. Do not store in galvanised steel, zinc, or copper containers — MEG can corrode these metals over time.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	ACGIH TLV: 25 ppm (ceiling, vapour, aerosol) / 10 mg/m ³ (inhalable particulate). NIOSH REL: 50 ppm TWA / 125 mg/m ³ . UK WEL: 20 ppm (8h TWA) vapour. India: no statutory OEL established; apply ALARA / ACGIH TLV by best practice. CAS 107–21–1 — verify current local OELs from authorities before use.
Engineering Controls	Use closed-loop handling or local exhaust ventilation (LEV) wherever vapour or mist may be generated (e.g. hot processing, spraying, high-shear mixing). General dilution ventilation is acceptable for ambient-temperature handling of small quantities.
Respiratory Protection	At ambient temperature and with good ventilation, MEG's low vapour pressure (0.06 mmHg at 20 °C) means routine respiratory protection is not required. If OEL may be exceeded, or for heating / spraying operations, use a NIOSH/EN-approved organic vapour respirator. SCBA required for emergency response or confined spaces.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl rubber or neoprene; select appropriate thickness and breakthrough time. Eyes: chemical splash goggles (EN 166 / ANSI Z87.1); add full-face shield for splashing or pressure-transfer operations. Skin: chemical-resistant apron and



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safety footwear. Provide eyewash and safety shower in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, viscous liquid
Odour	Odourless (or faintly sweet)
Odour Threshold	Not established
pH	Not applicable (neutral, pH ~6.5–7.5 for aqueous solutions)
Melting / Freezing Point	–13 °C (9 °F) — CORRECTED: source value 9 °F (–12.8 °C) is correct for MEG; PEG range data removed
Boiling Point / Range	197–198 °C at 760 mmHg (387.7 °F) — CORRECTED: source listed this value under Flash Point; re-mapped here
Flash Point	111 °C (232 °F) closed cup — CORRECTED: source listed 232 °F under Auto-ignition Temperature; re-mapped here
Auto-ignition Temperature	413 °C (775 °F) — CORRECTED: source listed 775 °F under Flammability Limits; re-mapped here
Flammability Limits	LEL: 3.2 % v/v · UEL: 15.3 % v/v (at elevated temperature, above flash point)
Vapour Pressure	0.06 mmHg at 20 °C (68 °F); 1 mmHg at 53 °C (127.4 °F) — CORRECTED: source listed these values under Vapour Density; re-mapped here
Vapour Density (air = 1)	2.14 — CORRECTED: source listed 2.14 under Relative Density; re-mapped here (MW MEG = 62; air ≈ 29; ratio ≈ 2.14 — consistent)
Relative Density	1.113–1.115 g/cm ³ at 20 °C — CORRECTED: source listed 1.115 under Solubility in Water; re-mapped here
Solubility in Water	Miscible with water in all proportions — CORRECTED: source listed 'greater than or equal to 100 mg/mL' under Log Pow; re-mapped here
Log Pow (Partition Coeff.)	–1.36 — CORRECTED: source listed –1.36 under Viscosity; re-mapped here (literature value confirmed)
Evaporation Rate	Very slow relative to butyl acetate (low vapour pressure); refer to supplier COA for grade-specific value
Viscosity	~16–20 mPa·s (cP) at 20 °C — CORRECTED: source listed PEG viscosity ranges under VOC Content; MEG-specific value substituted (flag: verify from supplier COA)
VOC Content	Low; assess per applicable regional VOC regulations. Refer to supplier SDS for grade-specific VOC classification.



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. No decomposition if stored and applied as directed.
Conditions to Avoid	Avoid heat above flash point (111 °C), open flames, ignition sources, direct sunlight, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chromic acid, permanganates, peroxides, halogens). Reactive with aluminium chloride (AlCl ₃) at elevated temperature. Avoid concentrated mineral acids and strong alkalis.
Hazardous Decomposition	Combustion and thermal decomposition may yield carbon monoxide (CO), carbon dioxide (CO ₂), and formaldehyde. No hazardous decomposition under normal storage conditions.
Hazardous Reactions	Will not occur under normal storage and handling conditions. Exothermic reaction possible with strong oxidisers.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): 4,700–8,000 mg/kg — classified Acute Tox. 4 (H302). MEG is relatively low acute oral toxicity but is metabolised to toxic oxalic acid; medical evaluation required after ingestion.
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal): > 3,500 mg/kg — not classified for acute dermal hazard at standard levels; prolonged skin contact may cause irritation (H315).
Acute Inhalation Toxicity	LC ₅₀ data not fully established at ambient temperature due to very low vapour pressure. Classified Acute Tox. 4 inhalation (H332) based on aerosol/mist data. Inhalation at elevated temperatures (heated processing) may cause drowsiness, dizziness and respiratory irritation.
Skin Irritation	Classified Skin Irrit. 2 — H315. May cause mild to moderate skin irritation on prolonged contact.
Eye Irritation	Classified Eye Irrit. 2 — H319. Causes serious eye irritation. Rinse immediately with water for at least 15 minutes.
Sensitisation	Not classified as a skin or respiratory sensitiser. No evidence of sensitisation in available data.
Carcinogenicity	Not classified. Not listed as a carcinogen by IARC, NTP, or ACGIH. No sufficient evidence for carcinogenicity in animals or humans.



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Mutagenicity	Not classified. Negative in in vitro and in vivo genotoxicity tests (Ames test, chromosomal aberration, mouse micronucleus assay).
STOT Single Exposure	H335 (respiratory irritation) / H336 (narcosis) — May cause drowsiness, dizziness or respiratory irritation, particularly at elevated concentrations or temperatures.
STOT Repeated Exposure	H373 — May cause damage to kidneys and central nervous system through prolonged or repeated exposure. Target organs: kidneys (oxalate nephropathy), central nervous system.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	MEG is of low acute aquatic toxicity. LC ₅₀ (96h, fish, <i>Lepomis macrochirus</i>): > 5,000 mg/L. EC ₅₀ (48h, <i>Daphnia magna</i>): > 10,000 mg/L. Not classified for acute aquatic hazard. Avoid large releases — exerts significant BOD load.
Persistence / Degradability	Readily biodegradable (> 60% BOD/ThOD in 28 days in OECD 301 tests). Does not persist in the environment under aerobic conditions.
Bioaccumulation	Log Kow = -1.36; BCF very low. MEG is not expected to bioaccumulate in aquatic organisms or the food chain.
Mobility in Soil	Highly mobile in soil and groundwater due to high water solubility and miscibility. May leach to groundwater if released in large quantities. Readily biodegraded in soil under aerobic conditions.
Other Adverse Effects	No ozone-depleting potential. Low global warming potential. Avoid uncontrolled release; manage under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of waste product through an authorised waste contractor in accordance with local, state and national regulations. Do not pour down drains in large quantities — high BOD load. Small dilute quantities may be disposed via municipal wastewater where permitted.
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Contaminated Packaging	Empty containers may retain product residues and associated hazards. Do not reuse without thorough decontamination. Dispose of empty containers through an authorised waste / recycling contractor. Triple-rinse metal drums before scrap.
Indian Regulations	Comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; Environment Protection Act, 1986; and applicable State Pollution Control Board (SPCB) requirements. Contact authorised Treatment, Storage and Disposal Facilities (TSDFs) for 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 subject to dangerous goods regulations	Not subject to dangerous goods regulations	Not subject to dangerous goods regulations
Class	—	—	—
Packing Group	—	—	—
Marine Pollutant	No	No	—

MEG (CAS 107-21-1) is not listed as a regulated dangerous good under ADR, IMDG, or IATA at ambient temperature and in standard commercial packaging. Verify current carrier-specific rules, quantities, and any local/national transport regulations before each shipment. Use UN-approved containers appropriate to the product. For bulk tanker transport, confirm with carrier.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	MEG (EC 203-473-3) is registered under REACH. Classified and labelled per CLP Regulation (EC) No. 1272/2008 as listed in Section 2. Not included in REACH SVHC Candidate List or Annex XIV/XVII at time of issue — verify current status on ECHA website.
OSHA (USA)	Prepared in 16-section format aligned with OSHA HCS 2012 / HazCom 2012 (29 CFR 1910.1200). Listed on TSCA Chemical Substance Inventory (CAS 107-21-1). No SNUR or significant-new-use restrictions known at time of issue.
India	Comply with the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 (as amended); Factories Act, 1948; Environment Protection Act, 1986; Hazardous and Other Wastes



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	(Management) Rules, 2016; and applicable State Pollution Control Board requirements. SDS prepared under Rule 13 of MSIHC Rules.
Canada WHMIS / HPR	Classify and label under WHMIS 2015 / HPR using Section 2 GHS classification. Canadian sale may require bilingual (English / French) SDS and label, and ingredient disclosure per HPR schedules.
China (GB Standards)	Observe applicable GB/T SDS format and hazard classification requirements where marketed in China.
Australia (AICS)	MEG is listed on the Australian Inventory of Industrial Chemicals (AICS). Verify current listing and any conditions before import or distribution.
Other Jurisdictions	Final market placement requires confirmation of inventory status, local OELs, transport classification, applicable waste codes and any sales restrictions in each jurisdiction.

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 Rev 1.0 dated May 2026 and all 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
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness



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- H373 — May cause damage to organs (kidneys, central nervous system) through prolonged or repeated exposure
-