



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

PEG 400 *SDS*

CAS 25322-68-3

EC Polymer / not assigned

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	PEG 400
Product Type	Polyethylene glycol grade 400
Chemical Family	Polyether glycol polymer
CAS No.	25322-68-3
EC No.	Polymer / not assigned
Intended Use	Industrial / professional use in formulations, cosmetics, pharmaceuticals, lubricants, polymers and process applications.
Restrictions on Use	Industrial / professional use only unless the supplied grade is separately qualified for regulated applications.
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/peg-400
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS (UN GHS Rev.11, 2025) for standard liquid / solid handling conditions. Molten material may cause thermal burns. Dust from solid grades may cause mechanical irritation.

GHS Classification	Not classified
Signal Word	Not classified
GHS Pictograms	No GHS pictogram (Not classified)



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HAZARD STATEMENTS

- None — substance is not classified as hazardous under GHS for standard handling conditions.

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe vapours or spray (from heated product).
- P271 — Use only outdoors or in a well-ventilated area when heating.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- 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.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- 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
Polyethylene glycol (PEG 400)	25322-68-3	Polymer / not assigned	100	Not classified

Percentages are by weight. No H-statements apply — substance is not classified under GHS.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air if mist, vapour from heated product, or dust is inhaled. Treat irritation symptomatically. Seek medical attention if symptoms persist.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical attention if symptoms persist. Thermal burns from molten material: cool immediately with water and seek medical attention.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.



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Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large quantity ingested.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical or carbon dioxide.
Unsuitable Media	Direct high-pressure water jet where it may spread molten material.
Specific Hazards	Combustion may produce carbon oxides and irritating fumes. Molten product may burn at high temperatures. Containers may rupture when exposed to heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Prevent slipping hazard from liquid grade spills. Wear appropriate PPE (see Section 8). Avoid breathing dust or vapour from heated material.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Liquid grade: collect with inert absorbent material into labelled containers. Solid grade: sweep or vacuum into labelled containers. Collect material for disposal through an approved waste contractor.
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	Avoid eye contact and prolonged skin contact. Avoid overheating and contact with strong oxidisers. Handle with appropriate PPE.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store closed in a dry, cool, well-ventilated area in original tightly closed compatible containers. Inspect containers regularly for



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	leakage or damage.
Storage Temperature	Ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidisers; concentrated acids; halogens; aluminium chloride (AlCl ₃) at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for polyethylene glycol (CAS 25322-68-3) under OSHA / NIOSH / ACGIH / EU / India as of issue date. Apply ALARA / good industrial hygiene practice. Verify current local OELs before use.
Engineering Controls	Use closed handling / local exhaust ventilation for dust, mist, vapour or aerosol. Use explosion-proof ventilation and earthing / bonding where heated product may generate vapour.
Respiratory Protection	If ventilation is inadequate, use a NIOSH / EN-approved respirator with organic vapour or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies or confined spaces.
Hand / Eye / Skin	Hands: wear compatible chemical-resistant gloves (nitrile, butyl, neoprene, PVC or laminate); select for breakthrough time and task. Eyes / face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash, molten material or pressure-transfer risk. Body: chemical-resistant clothing / apron and safety footwear. Provide eyewash and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, hygroscopic viscous liquid at room temperature.
Odour	Mild characteristic or nearly odourless.
Odour Threshold	Not established.
pH	Approx. 5–7 (aqueous solution; grade and concentration dependent).
Melting / Freezing Point	Approx. 4–8 °C (PEG 400 is liquid at room temperature).
Boiling Point / Range	>250 °C / decomposes at high temperature.
Flash Point	Approx. >180 °C (closed cup); literature values for PEG 400 typically 204–220 °C.
Auto-ignition Temperature	Not established.



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Flammability Limits	Not applicable / not established under standard conditions.
Vapour Pressure	Very low (negligible at ambient temperature).
Vapour Density (air = 1)	Not established.
Relative Density	Approx. 1.12–1.13 g/cm ³ at 20 °C.
Solubility in Water	Soluble / miscible in water.
Log Pow (Partition Coeff.)	Low; polyethylene glycols are hydrophilic polymers (log Pow < 0).
Evaporation Rate	Negligible.
Viscosity	Viscous liquid; approx. 90–110 cSt at 20 °C — confirm with supplier specification.
VOC Content	Negligible under typical VOC definitions; confirm locally.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above storage temperature, ignition sources, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire or at high temperatures.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity expected. LD ₅₀ (rat, oral) for PEG 400 reported >20,000 mg/kg (literature). Not classified.
Acute Dermal Toxicity	Low acute dermal toxicity expected. Not classified. Prolonged contact may cause mild skin irritation.
Acute Inhalation Toxicity	Low hazard at ambient temperature due to very low vapour pressure. Heated product may generate vapour / mist causing respiratory irritation. Not classified.
Skin Irritation	May cause mild mechanical skin irritation on prolonged contact. Heated / molten material can cause thermal burns. Not classified (Category 3 or unclassified).
Eye Irritation	May cause mild mechanical eye irritation. Not classified.



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Sensitisation	Not a known skin or respiratory sensitiser. Not classified.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, ACGIH or OSHA. Not classified.
Mutagenicity	No evidence of mutagenicity in available data. Not classified.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified in Section 2 from reviewed data. Avoid release. Obtain supplier / ecotoxicity data if required for registration or export.
Persistence / Degradability	PEG 400 is reported to be readily biodegradable in some studies; verify with supplier or ECHA data for the specific grade and formulation.
Bioaccumulation	Low bioaccumulation potential due to hydrophilicity (log Pow < 0). Verify BCF with supplier data where required.
Mobility in Soil	High water solubility indicates potential mobility in soil and groundwater. Prevent release to soil and watercourses.
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 through an authorised waste contractor in accordance with local and national regulations.
Contaminated Packaging	Empty containers may retain product residues. Handle as potentially hazardous until cleaned. Dispose of or recycle in compliance with local packaging waste regulations.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and State Pollution Control Board 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



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	N/A	No	N/A

PEG 400 is not classified as a dangerous good under ADR, IMDG or IATA in typical supplier SDS. Use UN-certified, tightly closed compatible containers for international transport. Verify current carrier and port authority rules before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to GHS/CLP classification listed in Section 2. Observe applicable workplace, VOC and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS / HazCom aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution; polymer / UVCB status may require supplier confirmation.
India	Observe applicable Indian MSIHC Rules, 1989 (as amended), workplace chemical safety, storage, transport, pollution-control and hazardous waste requirements.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label under WHMIS using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China: use applicable GB/T SDS and classification requirements. Australia (AICS): check inventory status before export or import. GCC / Middle East: observe applicable 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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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 — PEG 400 is not classified as hazardous under GHS (UN GHS Rev.11, 2025). No H-statements apply.