



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 4000 (Polyethylene Glycol 4000) *SDS*

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

CAS 25322-68-3

EC Polymer – not assigned

SIGNAL WORD **DANGER**

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

Product Name	PEG 4000 (Polyethylene Glycol 4000)
Product Type	Polyethylene glycol grade 4000
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-4000
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS / CLP. Molten material may cause thermal burns; dust may cause mechanical irritation to eyes and respiratory tract.

GHS Classification	Not classified
Signal Word	Not classified



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

GHS Pictograms

No GHS pictogram required

HAZARD STATEMENTS

- None — substance is not classified as hazardous under GHS Rev.11 / CLP.

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe dust / vapours from heated product.
- P264 — Wash hands and exposed skin thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection where dust or molten material may be encountered.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P302+P352 — IF ON SKIN: Wash with plenty of water.
- 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 CENTRE or doctor if you feel unwell.
- P332+P313 — If skin irritation occurs: seek medical advice.
- P337+P313 — If eye irritation persists: seek medical advice.
- 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 4000)	25322-68-3	Polymer / not assigned	100	Not classified

Substance is not classified as hazardous. No H-statements apply. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation

Move to fresh air if dust, mist or vapour from heated product is inhaled. Treat irritation symptomatically. Seek medical attention if symptoms persist.



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

Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. For burns from molten material, cool with water and seek medical attention promptly.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large quantities ingested.
Note to Physician	Treat symptomatically based on exposure route. Product has low acute toxicity; thermal burns from molten material should be managed as per standard burn protocols.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical powder or carbon dioxide (CO ₂).
Unsuitable Media	Avoid direct high-pressure water jet that may spread molten material.
Specific Hazards	Product is a combustible solid at elevated temperatures. Combustion may produce carbon oxides and irritating fumes. Dust or fine particulate may form combustible atmospheres. Containers may rupture when exposed to intense heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel.
Special Procedures	Prevent contaminated fire-fighting run-off from entering drains, sewers and waterways. Cool fire-exposed containers with water spray. Avoid generating dust clouds near ignition sources.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Prevent slipping hazard from molten spills. Wear appropriate PPE (see Section 8). Avoid generating dust from solid grades.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Collect liquid / molten grades with inert absorbent material. Sweep or vacuum solid / flake grades into labelled, sealable containers. Avoid generating dust. Collect material for disposal through an approved waste contractor.



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

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. Avoid generating dust from solid grades. Use appropriate mechanical handling for large quantities.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in a dry, cool, well-ventilated area in tightly closed, compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (typically 15–30 °C); prevent prolonged exposure to heat above melting point (~55–60 °C).
Incompatible Materials	Strong oxidisers (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for PEG 4000 (CAS 25322-68-3) under OSHA / NIOSH / ACGIH / EU / India. Apply ALARA and good industrial hygiene practice. Verify current local OEL with supplier or regulatory authority.
Engineering Controls	Use closed handling systems and local exhaust ventilation where dust, mist or vapour may be generated (particularly during heating or transfer of molten product).
Respiratory Protection	If ventilation is inadequate, use a NIOSH-approved or EN 149 respirator with P95/P100 particulate filter for dust. Use SCBA for emergencies or confined-space entry.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (nitrile, butyl or neoprene); select for task duration and breakthrough time. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield where splash or molten-material risk exists. Skin: chemical-resistant clothing or apron and safety footwear. Provide eyewash station and safety shower where appropriate.



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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White flakes, powder or waxy solid.
Odour	Mild characteristic or nearly odourless.
Odour Threshold	Not established.
pH	Approx. 5–7 in aqueous solution (grade and concentration dependent).
Melting / Freezing Point	Approx. 55–60 °C
Boiling Point / Range	Decomposes before boiling (high-molecular-weight polymer).
Flash Point	Not normally classified as flammable; combustible solid at high temperature. No flash point by standard closed-cup methods.
Auto-ignition Temperature	Not established.
Flammability Limits	Not applicable / not established.
Vapour Pressure	Very low (solid at ambient temperature).
Vapour Density (air = 1)	Not established.
Relative Density	Approx. 1.20 g/cm ³
Solubility in Water	Soluble / miscible in water (grade dependent).
Log Pow (Partition Coeff.)	Low; polyethylene glycols are hydrophilic polymers (log Pow not meaningfully applicable to high-MW polymer).
Evaporation Rate	Negligible.
Viscosity	Solid grade at ambient temperature; molten viscosity is grade-specific — consult supplier data.
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 melting point, ignition sources, contamination and contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern under ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may form on combustion or thermal decomposition at high temperatures.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.



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

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity expected for polyethylene glycol grades. Numeric LD ₅₀ data should be confirmed with supplier; PEG polymers are generally considered low-hazard by ingestion.
Acute Dermal Toxicity	Low acute dermal toxicity expected. Molten material can cause thermal burns.
Acute Inhalation Toxicity	Low acute inhalation toxicity expected under normal conditions. Dust or vapour from heated product may cause mechanical respiratory irritation.
Skin Irritation	May cause mild mechanical skin irritation with prolonged contact. Not classified as a skin irritant under GHS.
Eye Irritation	Dust or solid particles may cause mechanical eye irritation. Not classified as an eye irritant under GHS.
Sensitisation	Not identified as a skin or respiratory sensitiser.
Carcinogenicity	Not classified as carcinogenic under GHS / IARC / NTP / ACGIH.
Mutagenicity	Not classified as mutagenic. Endpoint data requires supplier / test confirmation for specific grades.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic hazard classification identified from available data. Avoid uncontrolled release to water. Obtain supplier ecotoxicity data if required for registration or export.
Persistence / Degradability	Biodegradability data should be confirmed with supplier or ECHA / PubChem records. Do not assume ready biodegradability without verified data.
Bioaccumulation	Bioaccumulation potential is low given the hydrophilic nature of PEG polymers (low log Pow). Verify with BCF data from supplier where required.
Mobility in Soil	Assess from solubility and product form. High water solubility may facilitate mobility in soil and groundwater; prevent uncontrolled release.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.



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

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, state and national regulations. Assign applicable waste code under local regulations based on actual process and use.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed. Recycle or dispose of through a licensed waste contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules and applicable CPCB / SPCB guidelines for chemical waste 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
Marine Pollutant	No	No	—

PEG 4000 is not classified as a dangerous good under ADR, IMDG or IATA in typical supplier SDS. Verify current carrier rules and local transport regulations before shipment. Use approved, compatible containers; UN-certified packaging is recommended for international transport. The text in the source SDS referencing 'Class 3 placard, PG II' is erroneous for this non-hazardous substance and has been removed.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the product-specific GHS/CLP classification in Section 2 (not classified). Observe applicable workplace chemical, 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.



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

India	Observe applicable Indian MSIHC Rules, Factories Act provisions, storage, transport, pollution-control and hazardous-waste requirements (CPCB / SPCB).
Other Jurisdictions	China: use applicable GB/T SDS and classification requirements where marketed. Canada (WHMIS/HPR): classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. 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)
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 — substance is not classified as hazardous under GHS Rev.11 / CLP. No H-statements apply.