



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 Methyl Ether Acetate (PGMEA) *SDS*

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

CAS **108-65-6** EC **203-603-9** SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

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

Product Name	Propylene Glycol Methyl Ether Acetate (PGMEA)
Product Type	Industrial solvent / propylene glycol ether ester
Chemical Family	Propylene glycol ether acetate
CAS No.	108-65-6
EC No.	203-603-9
Intended Use	Industrial solvent for paints, coatings, inks, electronics cleaning, and chemical formulations. Industrial / professional use only.
Restrictions on Use	Not for household use. 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/propylene-glycol-methyl-ether-acetate-pgmea
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; STOT SE 3 (narcotic effects); STOT SE 3 (respiratory irritation); Eye Irrit. 2; Repr. 1B

GHS Classification	Flammable Liquid Category 3; STOT Single Exposure Category 3 (narcosis); STOT Single Exposure Category 3 (respiratory irritation); Eye Irritation Category 2; Reproductive Toxicity Category 1B
Signal Word	DANGER
GHS Pictograms	GHS02 (Flammable) GHS07 (Harmful / Irritant) GHS08 (Health Hazard)
Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H336 — May cause drowsiness or dizziness
- H320 — Causes eye irritation
- H335 — May cause respiratory irritation
- H360 — May damage fertility or the unborn child

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/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.



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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.
- 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 Methyl Ether Acetate (PGMEA)	108-65-6	203-603-9	100	Flam. Liq. 3; STOT SE 3; Eye Irrit. 2; Repr. 1B; H226, H336, H320, H335, H360

Single-component substance (essentially pure). Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air. Keep at rest in a position comfortable for breathing. If symptoms persist (dizziness, respiratory irritation) seek medical advice.
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 clean 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 / call a Poison



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	Center.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Reproductive toxicity hazard (H360) — inform treating physician of potential fetal risk for pregnant workers.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , alcohol-resistant foam, or fine water spray. Use media appropriate to surrounding fire conditions.
Unsuitable Media	Do not use a direct high-pressure water jet as it may spread the burning material.
Specific Hazards	Flammable liquid and vapour (flash point ~42°C). Flammable vapours may form explosive mixtures with air; vapours can travel to ignition sources and flash back. Containers may rupture when heated due to pressure build-up. Combustion may produce carbon oxides and irritating/toxic fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use grounded/explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray from a safe distance. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Remove ignition sources. Use PPE specified in Section 8. Avoid breathing vapours. Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify relevant authorities if large quantities enter the environment.
Containment / Clean-up	Absorb spill with inert material (sand, vermiculite, dry earth). Collect material into labelled, compatible, closed containers for disposal through an approved waste contractor. Avoid generating sparks during clean-up.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate local exhaust ventilation. Avoid contact with skin and eyes. Avoid breathing vapours. Keep away from all ignition sources. Ground and bond containers and receiving equipment. Use explosion-proof equipment. Store tightly closed.
Hygiene	Wash hands and exposed skin after handling. Remove and launder contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers (typically steel drum or approved UN-rated container) in a cool, dry, well-ventilated area away from ignition sources.
Storage Temperature	Ambient temperature (typically below 25°C); follow supplier COA/SDS for grade-specific guidance.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens. See Section 10.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store separately from oxidisers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	PGMEA (CAS 108-65-6): ACGIH TLV-TWA 50 ppm (8h); OSHA PEL not established (apply ALARA/good industrial hygiene). Verify current OEL from local authority (India MSIHC / state PCBS) and regional standard before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation for vapour control. Explosion-proof ventilation and electrical equipment required where flammable vapours may occur. Provide eyewash and safety shower accessible from the work area.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved organic vapour respirator (OV cartridge). Use SCBA for emergency response or where vapour concentrations may be high.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile, butyl, neoprene or laminate; verify breakthrough time for task duration). Eyes/Face: Chemical splash goggles (EN 166 / ANSI Z87.1); face shield for heavy splash risk. Body: Chemical-resistant apron/clothing and safety footwear; antistatic PPE where flammable vapours may occur.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless, clear, mobile liquid
Odour	Sweet, ether-like / mild fruity odour
Odour Threshold	Not established in reviewed source data
pH	Not applicable (pure organic solvent; does not ionise in water)
Melting / Freezing Point	–66°C (USCG, 1999; peer-reviewed)
Boiling Point / Range	~150°C / 302°F at 760 mmHg (USCG, 1999)
Flash Point	~42°C / 114°F — closed cup (USCG, 1999)
Auto-ignition Temperature	~354°C / 670°F (USCG, 1999)
Flammability Limits	Lower (LFL): ~1.7% v/v; Upper (UFL): ~8.2% v/v (literature values; verify from supplier SDS)
Vapour Pressure	3.92 mmHg at 20°C; 7.72 mmHg at higher temperature (peer-reviewed)
Vapour Density (air = 1)	4.6 (peer-reviewed)
Relative Density	0.969 at 68°F / 20°C (USCG, 1999); lighter than water
Solubility in Water	~198,000 mg/L (1.98×10^5 mg/L) at 25°C (peer-reviewed); partially miscible
Log Pow (Partition Coeff.)	0.56 (peer-reviewed)
Evaporation Rate	See supplier SDS for grade-specific value
Viscosity	1.23 mm ² /s (cSt) at 20°C (peer-reviewed)
VOC Content	Assess per applicable regional VOC regulations; consult supplier COA

SECTION 10 STABILITY AND REACTIVITY

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



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat, oral): ~8,532 mg/kg (literature; low acute oral toxicity). Not classified for acute oral toxicity under GHS.
Acute Dermal Toxicity	Numeric endpoint data requires supplier/test confirmation. Not classified for acute dermal toxicity from reviewed data.
Acute Inhalation Toxicity	Numeric endpoint data requires supplier/test confirmation. Not classified for acute inhalation toxicity (concentration limit) from reviewed data.
Skin Irritation	May cause mild skin irritation on prolonged or repeated contact. Not classified as a skin irritant under GHS from reviewed data.
Eye Irritation	Classified Eye Irritation Category 2 (H320 – Causes eye irritation). Rinse immediately.
Sensitisation	Not classified as a skin or respiratory sensitiser from reviewed data. Supplier confirmation recommended.
Carcinogenicity	Not classified as a carcinogen. Not listed by IARC, NTP, or OSHA.
Mutagenicity	Not classified as a mutagen/genotoxic from reviewed data. Supplier/test data confirmation recommended.
Reproductive Toxicity	Classified Reproductive Toxicity Category 1B (H360 – May damage fertility or the unborn child). Based on animal studies. Avoid exposure especially during pregnancy. Consult occupational physician.
STOT – Single Exposure	Category 3: May cause drowsiness or dizziness (H336); May cause respiratory irritation (H335).
STOT – Repeated Exposure	Not classified from reviewed data. Supplier/test data confirmation recommended.
Aspiration Hazard	Not classified as an aspiration hazard from reviewed data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity (Acute)	No acute aquatic toxicity classification identified from reviewed data. Numeric ecotoxicity data not universally verified; avoid uncontrolled release.
Aquatic Toxicity (Chronic)	No chronic aquatic toxicity classification identified from reviewed data. Obtain supplier/ecotoxicity data if required for registration or export.



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Persistence / Degradability	PGMEA is expected to be biodegradable under aerobic conditions. Verify ready biodegradability from supplier or ECHA data.
Bioaccumulation	Log Kow 0.56 — low bioaccumulation potential. Not expected to bioaccumulate significantly.
Mobility in Soil	Moderately soluble in water; assess adsorption potential from soil type and product form. Prevent release to soil and groundwater.
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, state, and national regulations. Do not pour into drains or waterways.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous waste until cleaned or confirmed empty. Return to supplier or dispose via authorised contractor.
Indian Regulations	Manage as hazardous waste under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (MoEFCC). Comply with applicable SPCB/CPCB requirements. Assign waste code per actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 3272	UN 3272	UN 3272
Proper Shipping Name	Esters, n.o.s. (Propylene Glycol Monomethyl Ether Acetate)	Esters, n.o.s. (Propylene Glycol Monomethyl Ether Acetate)	Esters, n.o.s. (Propylene Glycol Monomethyl Ether Acetate)
Class	3 (Flammable Liquid)	3 (Flammable Liquid)	3 (Flammable Liquid)
Packing Group	III	III	III
Marine Pollutant No		No	--

PGMEA (flash point ~42°C) is classified as a Class 3 Flammable Liquid, PG III. Transport classification must be verified against current ADR/IMDG/IATA editions and confirmed with supplier before shipment. UN-certified drum required for international transport. Label with Class 3 placard, UN 3272, PG III, and product name.



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH registration requirements. Classified and labelled in accordance with CLP/GHS as listed in Section 2. Observe applicable workplace chemical, VOC, and environmental directives.
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 requirements under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (as amended); Hazardous Waste Rules 2016; Water/Air Prevention and Control of Pollution Acts; and relevant SPCB/CPCB 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 per HPR.
China (GB Standards)	Use applicable GB/T SDS and classification requirements where marketed in China.
Australia (AICS)	Check AICS inventory status before export or import into Australia.
Other Jurisdictions	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code, and any use restrictions applicable in the destination country.

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 all prior issues including Rev 1.0 dated May 2026)
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 61021; ECHA PGMEA entry; USCG CHRIS (1999); NIOSH/OSHA and CAMEO references; peer-reviewed physicochemical data. 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



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FULL TEXT OF H-STATEMENTS

- H226 — Flammable liquid and vapour
- H320 — Causes eye irritation
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness
- H360 — May damage fertility or the unborn child