



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)

Silicone Oil *SDS*

CAS 63148-62-9 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	Silicone Oil
Product Type	Polydimethylsiloxane fluid
Chemical Family	Silicone polymer
CAS No.	63148-62-9
EC No.	Polymer (not assigned)
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer 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/silicone-oil
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS/CLP for typical commercial polydimethylsiloxane fluid grades.

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

HAZARD STATEMENTS



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- None — substance is not classified as hazardous under GHS.

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- 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
Polydimethylsiloxane (PDMS)	63148-62-9	Polymer	100	Not classified

Percentages are by weight. Full text of H-statements listed in Section 16. Product is a single-component polymer fluid; no classified hazardous ingredients.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, obtain medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical powder or carbon dioxide (CO ₂) appropriate for surrounding fire conditions.
Unsuitable Media	Avoid direct high-pressure water jet where it may spread the burning material.
Specific Hazards	Combustion may produce carbon oxides and irritating or toxic silicone decomposition fumes. Containers may rupture when exposed to 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 and waterways. Cool exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Spilled silicone oil creates an extremely slippery surface — restrict access and display slip-hazard warning. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant quantities enter surface water.
Containment / Clean-up	Contain spill immediately. Absorb with inert material (sand, vermiculite, dry earth). Collect into labelled, closed containers for disposal through an approved waste contractor.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid creating mists or aerosols. Beware of slipping hazards from spills. Handle in closed systems where possible. Keep containers tightly closed when not in use.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers. Inspect containers regularly for leakage or damage. Keep away from strong



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	oxidisers.
Storage Temperature	Ambient temperature (unless supplier specification states otherwise). Do not expose to temperatures exceeding 200°C.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine). Concentrated acids and halogens. Reactive with 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	Polydimethylsiloxane (CAS 63148-62-9): No specific OEL established internationally. Apply ALARA / good industrial hygiene practice. Verify local OEL (OSHA / NIOSH / ACGIH / EU / India) before use.
Engineering Controls	Use closed handling systems and local exhaust ventilation to control mists, vapours or aerosols. Use explosion-proof ventilation where hot processing may generate vapours.
Respiratory Protection	If ventilation is inadequate or exposure exceeds guidance, use a NIOSH/EN-approved respirator with organic vapour / P95/P100 particulate cartridge as applicable. Use SCBA for emergencies or confined spaces.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select breakthrough time for task duration. Eyes/Face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: chemical-resistant clothing/apron and safety footwear. Provide emergency eyewash station and safety shower.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, oily liquid.
Odour	Characteristic (faint, slightly oily); essentially odourless at ambient temperature.
Odour Threshold	Not established.
pH	Not applicable (non-aqueous liquid). For aqueous emulsion grades, verify from supplier COA/SDS.
Melting / Freezing Point	See supplier specification (grade-dependent; low-viscosity grades may be liquid below -60°C).
Boiling Point / Range	>200°C (typical; higher for high-molecular-weight grades).



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Flash Point	>300°C (typical for standard PDMS grades; grade-dependent — verify from supplier COA). [FLAG: source value was not established; value assigned from known PDMS chemistry — confirm with supplier.]
Auto-ignition Temperature	Not established (typically >400°C for PDMS fluids).
Flammability Limits	Not established. PDMS fluids are not classified as flammable liquids under GHS.
Vapour Pressure	Very low (typically <0.01 mmHg at 20°C for high-MW grades); negligible at ambient temperature.
Vapour Density (air = 1)	See supplier specification (grade-dependent; >1 for most PDMS grades).
Relative Density	~0.96–0.97 at 20°C (typical for 50–1000 cSt grades; grade-dependent — see supplier COA). [CORRECTED: source had 'Insoluble' under this field — that value belongs to Solubility in Water.]
Solubility in Water	Insoluble. [CORRECTED: source had 'Insoluble' listed under Relative Density; re-mapped to correct field.]
Log Pow (Partition Coeff.)	Not established for supplied commercial polymer grade.
Evaporation Rate	Very low (grade-dependent silicone fluid; higher-MW grades are essentially non-volatile at ambient conditions).
Viscosity	Grade-dependent (range: ~1 cSt to >1,000,000 cSt at 25°C). Confirm viscosity grade with supplier.
VOC Content	Negligible to nil for standard PDMS fluids (MW >200). Assess under applicable local VOC rules if low-MW volatile cyclics may be present in formulation.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Thermally stable up to approximately 150–200°C depending on grade; prolonged exposure at higher temperatures causes degradation.
Conditions to Avoid	Excessive heat (above storage/use temperature), ignition sources, contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) at elevated temperature. Avoid contact with reactive metals.



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Hazardous Decomposition	Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, silicon dioxide, formaldehyde and irritating or toxic silicone fumes.
Hazardous Reactions	No hazardous polymerisation or spontaneous combustion under normal storage conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity expected for polydimethylsiloxane. Numeric LD ₅₀ data requires supplier/test confirmation.
Acute Dermal Toxicity	Low acute dermal toxicity expected. Numeric LD ₅₀ data requires supplier/test confirmation.
Acute Inhalation Toxicity	Low acute inhalation toxicity expected; generated mists or aerosols may irritate the respiratory tract. Numeric LC ₅₀ data requires supplier confirmation.
Skin Irritation	Not expected to be a primary skin irritant under normal contact conditions. Prolonged or repeated contact may cause mild drying.
Eye Irritation	Liquid contact may cause transient mechanical irritation. Not classified as an eye irritant.
Sensitisation	Not known to be a skin or respiratory sensitiser.
Carcinogenicity	Not classified as a carcinogen. Endpoint assessment: see Section 2 classification. Confirm with supplier/test data.
Mutagenicity	Not classified as a mutagen. Endpoint assessment: see Section 2 classification. Confirm with supplier/test data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic classification identified from available data. Insoluble in water; numeric ecotoxicity data (LC ₅₀ /EC ₅₀) not universally verified. Avoid uncontrolled release.
Persistence / Degradability	PDMS is not readily biodegradable. Abiotic degradation pathways exist in soil/sediment. Do not assume ready biodegradability; obtain supplier data for registration or export requirements.
Bioaccumulation	High molecular weight PDMS has low bioaccumulation potential. Use verified log Kow / BCF data from supplier or ECHA where available.
Mobility in Soil	Insoluble and hydrophobic; expected to adsorb to soil particles and sediment. Low mobility in groundwater. Prevent release to soil.



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Other Adverse Effects

Manage releases and waste under applicable local environmental regulations. Avoid uncontrolled release to the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product

Dispose of contents through an authorised waste contractor in accordance with applicable local, state and national regulations. Do not dispose of via drains or to the environment.

Contaminated Packaging

Empty containers may retain product residues; handle as potentially hazardous until cleaned or disposed. Return for recycling where available or dispose via licensed contractor.

Indian Regulations

Follow requirements under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable State Pollution Control Board (SPCB) directives. Assign waste code per local regulation.

SECTION 14 TRANSPORT INFORMATION

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

Polydimethylsiloxane (CAS 63148-62-9) is not classified as a dangerous good under ADR, IMDG or IATA for standard commercial grades. Verify current carrier rules before each shipment. Use packaging appropriate and compatible with the product. Note in source document reference to 'Class 3 placard, PG II' is inapplicable to this unclassified substance and has been removed.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Polydimethylsiloxane is a polymer; standard REACH registration thresholds and obligations may apply depending on monomer. Classified and labelled per Section 2 GHS classification. Observe CLP/REACH Annex II SDS requirements where applicable.

OSHA (USA)

Prepared in OSHA HCS/HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.



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India	Observe applicable requirements under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (as amended); Hazardous Wastes Management Rules, 2016; Environment Protection Act, 1986; and State Pollution Control Board requirements.
Other Jurisdictions	Canada: Classify and label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China: Apply GB/T SDS and classification requirements where marketed. Australia: Check AICS inventory status before export or import. Verify local inventory registration and OEL obligations before market placement in any 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 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. No H-statements apply.