



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 Emulsion *SDS*

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

CAS 63148-62-9 (Polydimethylsiloxane emulsion) EC Polymer (exempt from EC number)

SIGNAL WORD DANGER

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

Product Name	Silicone Emulsion
Product Type	Silicone emulsion
Chemical Family	Aqueous silicone polymer emulsion
CAS No.	63148-62-9 (Polydimethylsiloxane emulsion)
EC No.	Polymer (exempt from EC number)
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-emulsion
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS / UN GHS Rev.11 (2025) based on available data for this aqueous silicone emulsion.

GHS Classification Not classified



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Signal Word	Not classified
GHS Pictograms	None required

HAZARD STATEMENTS

- No GHS hazard statements assigned — substance is not classified as hazardous under the reviewed GHS criteria.

PRECAUTIONARY – PREVENTION (GOOD PRACTICE)

- 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 emulsion	63148-62-9	Polymer	10–60 (active, grade-dependent)	Not classified
Water	7732-18-5	231-791-2	Balance	Not classified

Percentages are approximate and grade-dependent. Full text of H-statements listed in Section 16.

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.



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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.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical or carbon dioxide suitable for surrounding fire.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Combustion may produce irritating fumes. Containers may rupture when heated. Avoid dust clouds and ignition sources if dried powder form is present.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate PPE (see Section 8). Avoid contact with skin, eyes and clothing.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Contain spill; absorb liquid with inert absorbent material. Collect into labelled 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 freezing and contamination. Keep containers tightly closed. Avoid generating mists or sprays.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.



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Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (typically 5°C to 35°C) unless supplier instructions specify otherwise. Avoid freezing.
Incompatible Materials	Strong oxidisers and product-specific incompatible substances; see supplier SDS before use.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	CAS 63148-62-9 (PDMS emulsion): No established OEL; apply ALARA / good industrial hygiene. CAS 7732-18-5 (Water): No OEL applicable. Verify local OELs (OSHA / NIOSH / ACGIH / EU / India).
Engineering Controls	Use closed handling or local exhaust ventilation for mist, vapour or aerosol. Provide general dilution ventilation. Use explosion-proof ventilation where applicable.
Respiratory Protection	Where ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 particulate cartridge as applicable. Use SCBA for emergencies.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl, neoprene or PVC); select breakthrough time for the task. Eyes: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: chemical-resistant clothing/apron and safety footwear. Provide eyewash and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White milky emulsion
Odour	Characteristic (mild, slight)
Odour Threshold	Not established
pH	Typically neutral to mildly alkaline (approx. 6–8; confirm with supplier specification)
Melting / Freezing Point	Approximately 0°C (water phase); see supplier specification for full formulation
Boiling Point / Range	Approximately 100°C (water phase); see supplier specification
Flash Point	Not flammable — aqueous emulsion; no flash point
Auto-ignition Temperature	Not established



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Flammability Limits	Not established (not flammable)
Vapour Pressure	Approximately 2.3 kPa at 20°C (water phase; PDMS component is negligible)
Vapour Density (air = 1)	Not established
Relative Density	Approximately 0.98–1.05 g/cm ³ (grade-dependent); see supplier specification
Solubility in Water	Dispersible (emulsion form)
Log Pow (Partition Coeff.)	Not established for commercial grade (PDMS: log Pow > 3 for low-MW species; mixture not applicable)
Evaporation Rate	Not established (slower than water due to emulsion stabilisers)
Viscosity	Grade-dependent; see supplier specification
VOC Content	Typically low to negligible; assess under applicable local VOC rules

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination, freezing, and 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 in ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed on combustion or in fire.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity expected; may cause mild irritation. Numeric LD ₅₀ not verified; see supplier/test data.
Acute Dermal Toxicity	Low acute toxicity expected; may cause mild skin irritation. Endpoint confirmation requires supplier data.
Acute Inhalation Toxicity	Low acute toxicity expected; mist/aerosol may cause mild respiratory irritation. Endpoint confirmation requires supplier data.
Skin Irritation	Low irritation potential expected based on ingredients. Confirm with supplier.



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Eye Irritation	Low irritation potential expected. Rinse immediately if contact occurs.
Sensitisation	Not classified as a skin sensitiser based on available data; confirm with supplier.
Carcinogenicity	Not classified; no known carcinogenic components at concentrations present. Confirm with supplier.
Mutagenicity	Not classified; endpoint-specific assessment requires supplier/test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified in Section 2 from reviewed data. Avoid uncontrolled release. Obtain supplier/ecotoxicity data if needed for registration or export.
Persistence / Degradability	Polydimethylsiloxane is not readily biodegradable; ultimate degradation occurs via hydrolysis in soil/sediment. Water phase is biodegradable. Obtain supplier data for full formulation.
Bioaccumulation	High-MW PDMS has low bioaccumulation potential. Verify with log Kow / BCF data from supplier; not applicable as mixture.
Mobility in Soil	Emulsion may adsorb to soil; low mobility in soil expected for PDMS. 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 regulations. Do not pour down drains.
Contaminated Packaging	Empty containers may retain residues; handle as potentially hazardous until cleaned or disposed of through authorised channels.
Indian Regulations	Follow Hazardous Waste (Management, Handling and Transboundary Movement) Rules and applicable CPCB / SPCB requirements. Assign waste code per actual process and regulation.



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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	—

Not classified as dangerous goods under ADR, IMDG or IATA based on available data. Use approved compatible containers. Verify current carrier rules before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled per Section 2 GHS/CLP classification. 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; mixture / UVCB status may require supplier confirmation.
India	Observe applicable MSIHC Rules, Hazardous Waste Rules, CPCB/SPCB requirements, workplace chemical storage, transport and pollution-control regulations.
Other Jurisdictions	China: apply applicable GB/T SDS and classification requirements. Canada WHMIS/HPR: classify/label under WHMIS 2015; Canadian sale may require bilingual SDS/label and ingredient disclosure. Middle East/GCC, Australia (AICS): verify inventory status before export or import. Final market placement requires confirmation of 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



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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

- No H-statements assigned — this substance is not classified as hazardous under UN GHS Rev.11 (2025) based on data reviewed at date of issue.
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