



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Stearic Acid *SDS*

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

CAS 57-11-4 EC See ECHA / supplier SDS SIGNAL WORD DANGER

GHS06

Acute Toxicity

GHS07

Harmful / Irritant

GHS09

Environmental Hazard

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

Product Name	Stearic Acid
Product Type	Industrial chemical — fatty acid
Chemical Family	Saturated long-chain fatty acid
CAS No.	57-11-4
EC No.	See ECHA / supplier SDS
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. 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/stearic-acid
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

GHS Classification: Acute Tox. 3 (Oral); Skin Irrit. 2; Aquatic Acute 1

Signal Word DANGER



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GHS Pictograms	GHS06 (Acute Toxicity) GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)
Other Hazard Classes	Not classified for unlisted hazard classes based on reviewed source data.

HAZARD STATEMENTS

- H315 — Causes skin irritation.
- H301 — Toxic if swallowed.
- H400 — Very toxic to aquatic life.

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. 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.

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.



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- 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
Stearic Acid	57-11-4	See ECHA / supplier SDS	100	Acute Tox. 3 (Oral); Skin Irrit. 2; Aquatic Acute 1

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move person to fresh air immediately. Keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if irritation develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. H301 classification — consult Poison Centre.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO ₂ , foam, sand or water spray. Use media appropriate for surrounding fire.
Unsuitable Media	Direct high-pressure water jet — may spread molten material.
Specific Hazards	Combustible solid; molten material may flow and reignite. Dust or fine particulate may form combustible or irritating atmospheres. Avoid dust clouds and ignition sources. Containers may rupture



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when heated. Fire may produce carbon oxides and irritating or toxic fumes.

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	Isolate area. Keep away from ignition sources. Use PPE as specified in Section 8. Avoid inhalation of dust or fumes if product is molten.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Product is classified hazardous to aquatic life (H400).
Containment / Clean-up	Isolate spill area. Allow molten material to solidify before collection. Collect solid material into labelled compatible containers 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	Use adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust or vapour when handling at elevated temperatures. Keep container tightly closed when not in use.
Hygiene	Wash hands after handling. Remove and wash 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 ignition sources.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise. Melting point ~69°C — avoid storage at elevated temperatures.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.



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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Stearic Acid (CAS 57-11-4): No specific OEL established by OSHA/NIOSH/ACGIH/EU/India. Use verified local OEL if established; otherwise apply ALARA and good industrial hygiene practices. STEL: Use verified STEL/ceiling if established.
Engineering Controls	Use closed handling systems or local exhaust ventilation for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding where product is handled in molten form.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 particulate cartridge. Use SCBA for emergencies or fire-fighting.
Hand / Eye / Skin	Gloves: Chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select for product and task duration. Eyes/Face: Chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk or when handling in molten state. Body: Chemical-resistant clothing/apron and safety footwear. Provide eyewash and emergency shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white waxy solid (flakes, pellets or powder). [Source: generic descriptor — verify grade-specific form with supplier.]
Odour	Slight tallow-like odour (peer-reviewed).
Odour Threshold	Not established in reviewed public sources.
pH	Not applicable (solid, not supplied as aqueous solution). For aqueous dispersions verify pH from supplier COA/SDS.
Melting / Freezing Point	156.7 °F (69.3 °C) (NTP, 1992). [CORRECTED: source value 156.7 °F restored to Melting Point — was orphaned in source text above the shifted block.]
Boiling Point / Range	721 °F (383 °C) at 760 mmHg (NTP, 1992). [CORRECTED: source had this value under 'Melting/Freezing Point' label — reassigned to Boiling Point based on CAS 57-11-4 chemistry.]
Flash Point	385 °F (196 °C) (NTP, 1992). [CORRECTED: source had this value under 'Boiling Point' label — reassigned to Flash Point based on CAS 57-11-4 chemistry.]



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Auto-ignition Temperature	743 °F (395 °C) (USCG, 1999). [CORRECTED: source had this value under 'Flash Point' label — reassigned to Auto-ignition Temperature based on CAS 57-11-4 chemistry.]
Flammability Limits	1 mmHg at 344.7 °F; 5 mmHg at 408.2 °F (NTP, 1992). Ambient vapour pressure: ~0.00000004 mmHg (indicating negligible volatility at room temperature).
Vapour Pressure	Negligible at ambient temperature (~0.00000004 mmHg). See Flammability Limits row for elevated-temperature values.
Vapour Density (air = 1)	9.8 (NTP, 1992) — heavier than air; vapours will sink.
Relative Density	0.86 at 68 °F (20 °C) (USCG, 1999) — less dense than water; will float.
Solubility in Water	1 to 10 mg/mL at 73 °F (23 °C) (NTP, 1992). [Flag: stearic acid is generally considered practically insoluble in water at ambient temperature; verify this range with supplier COA.]
Log Pow (Partition Coeff.)	8.23 (peer-reviewed).
Evaporation Rate	Negligible at ambient temperature (solid).
Viscosity	9.87 mPa·s (cP) at 70 °C (molten) (peer-reviewed).
VOC Content	Negligible / not applicable for solid-form product. Assess per applicable regional VOC regulations if used as melt.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above melting point unless process requires it, ignition sources, contamination and contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. 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 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	Classified Acute Tox. 3 (H301 — Toxic if swallowed) per source SDS. Numeric LD50 data requires supplier/test confirmation. [Flag: H301
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classification is atypical for stearic acid — a common food-grade ingredient. Verify classification against current ECHA/supplier toxicology data before market placement.]

Acute Dermal Toxicity	Not classified. Additional numeric endpoint data requires supplier/test confirmation.
Acute Inhalation Toxicity	Not classified. Dust or vapour (molten) may cause respiratory irritation. Additional numeric endpoint data requires supplier/test confirmation.
Skin Irritation	Classified Skin Irrit. 2 (H315 — Causes skin irritation). See Section 2.
Eye Irritation	Not classified in source SDS. Additional data requires supplier/test confirmation.
Sensitisation	Not classified. Additional data requires supplier/test confirmation.
Carcinogenicity	Not classified. Additional data requires supplier/test confirmation.
Mutagenicity	Not classified. Additional data requires supplier/test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Acute 1 (H400 — Very toxic to aquatic life). Prevent release to the environment. Obtain LC50/EC50/NOEC values from supplier, ECHA or PubChem where required.
Persistence / Degradability	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability. [Note: stearic acid is a natural fatty acid and is expected to be readily biodegradable — verify with supplier data.]
Bioaccumulation	Log Kow = 8.23 (see Section 9) — potential for bioaccumulation; verify BCF data from supplier or ECHA.
Mobility in Soil	Low mobility as solid; assess from solubility, adsorption potential 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 authorized waste contractor in accordance with local, state and national regulations.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous waste until fully cleaned or disposed of through an authorized contractor.



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Indian Regulations

Comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, and applicable CPCB/SPCB requirements. Assign waste code according to actual process and 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	Verify — likely Yes if IMDG criteria met (H400 classification)	Verify — likely Yes if IMDG criteria met	Not applicable

Stearic acid is generally not regulated as a dangerous good for transport. However, the H400 (Aquatic Acute 1) classification may trigger Marine Pollutant designation under IMDG. Confirm DG status against current ADR/IMDG/IATA criteria and verify with carrier before shipment. Use approved compatible containers; UN-certified drums required for international transport if classified as DG. Follow applicable ADR, IMDG and IATA requirements. Verify current carrier rules before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS/CLP classification listed in Section 2. 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; mixture/UVCB status may require supplier confirmation.

India

Observe applicable Indian MSIHC Rules, Factories Act, Water/Air (Prevention & Control of Pollution) Acts, Hazardous Waste Rules, and transport requirements. Final market placement requires confirmation of local OELs, waste code and restrictions.



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Canada WHMIS / HPR	Classify and label under WHMIS 2015/HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
China (GB Standards)	Use applicable GB/T SDS and classification requirements where marketed.
Australia (AICS)	Check inventory status before export or import.
Other Jurisdictions	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)
Key Sources	SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references. 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 for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- H301 — Toxic if swallowed.
- H315 — Causes skin irritation.
- H400 — Very toxic to aquatic life.