



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Oleic Acid *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS **112-80-1** EC **204-007-1** SIGNAL WORD **DANGER**

GHS07

Harmful / Irritant

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

Product Name	Oleic Acid
Product Type	Industrial chemical
Chemical Family	Fatty acid (C18 unsaturated)
CAS No.	112-80-1
EC No.	204-007-1
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/oleic-acid
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Skin Irrit. 2 (H315); Eye Irrit. 2 (H319). Not classified for flammability, acute toxicity, CMR, environmental hazard or other unlisted GHS hazard classes based on reviewed source data.

Signal Word WARNING



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GHS Pictograms

GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H315 — Causes skin irritation
- H319 — Causes serious eye irritation

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe vapours or spray.
- P264 — Wash hands and exposed skin thoroughly after handling.
- 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

- 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 CENTER or doctor if you feel unwell.
- P321 — Specific treatment: treat symptomatically.
- P330 — Rinse mouth.
- P332+P313 — If skin irritation occurs: Get medical advice / attention.
- P337+P313 — If eye irritation persists: Get medical advice / attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents / container in accordance with local regulations.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Oleic Acid	112-80-1	204-007-1	~100	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319)

Commercial grades may contain minor amounts of other C16–C20 fatty acids; confirm purity with supplier COA. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air. Keep comfortable for breathing. Call a POISON CENTER or doctor if symptoms develop or persist.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation 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 if irritation persists.
Ingestion	Rinse mouth with water. 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.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	CO ₂ , dry chemical powder, foam, water spray / fog. Use media appropriate to surrounding fire.
Unsuitable Media	High-pressure water jet (may spread burning liquid).
Specific Hazards	Combustible liquid. Thermal decomposition and combustion may produce carbon monoxide, carbon dioxide and irritating organic vapours. Containers may rupture when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Prevent contaminated fire-fighting run-off from entering drains and waterways.
Special Procedures	Cool containers exposed to fire with water spray. Evacuate non-essential personnel from the area. Apply foam or CO ₂ directly onto burning surface.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Wear appropriate PPE as specified in Section 8. Keep unprotected persons away. Avoid walking in spilled material.
Environmental Precautions	Prevent entry into drains, sewers, soil, surface water and groundwater. Report environmental spills to appropriate authorities if required by regulation.
Containment / Clean-up	Contain spill using inert absorbent material (sand, vermiculite, dry earth). Collect and transfer to clearly labelled, compatible closed containers for disposal. Clean contaminated surface with soap and water.
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 breathing vapours or mist. Keep away from heat and ignition sources. Use grounded / bonded containers and equipment.
Hygiene	Wash hands and exposed skin 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 (HDPE, stainless steel or carbon steel). Inspect containers regularly for leakage or damage. Protect from light and moisture.
Storage Temperature	Ambient (15–35°C). Product solidifies below ~16°C; gentle warming restores liquid state without degradation.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine). Concentrated mineral acids. Aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed, strong oxidisers and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Oleic Acid (CAS 112–80–1): No specific OEL established by OSHA, NIOSH, ACGIH or EU IOELV. Apply ALARA / good industrial hygiene
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practice. Verify with local authority (India MSIHC / State PCB) before use.

Engineering Controls	Provide local exhaust ventilation to control mist, vapour or aerosol at source. Use closed handling systems where practicable. Ensure adequate general ventilation.
Respiratory Protection	Not required under normal ventilated conditions. If vapour / mist concentration may exceed acceptable levels, use a NIOSH/EN-approved organic vapour / P95 respirator. Use SCBA for emergencies.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl or neoprene; select thickness and breakthrough time appropriate to the task. Eyes: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash risk. Body: chemical-resistant apron or coverall and safety footwear. Provide eyewash station and emergency shower in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless to pale yellow oily liquid at temperatures above ~16°C; turns yellow-to-brown on prolonged exposure to air. Waxy solid below ~16°C.
Odour	Characteristic lard-like / fatty odour
Odour Threshold	Not established in reviewed public source data
pH	Not applicable (neat liquid, not aqueous solution)
Melting / Freezing Point	~16°C (61.3°F) [NTP, 1992]
Boiling Point / Range	~286°C at 100 mmHg (547°F) [NTP, 1992]
Flash Point	189°C (372°F) [NTP, 1992] — closed cup
Auto-ignition Temperature	~363°C (685°F) [USCG, 1999]
Flammability Limits	Not established in reviewed source data
Vapour Pressure	~0.00000055 mmHg at 20°C (extremely low)
Vapour Density (air = 1)	See supplier SDS for confirmed value (molecular weight 282.5 g/mol suggests vapour density >> 1)
Relative Density	0.89 at 25°C (77°F) [USCG, 1999] — less dense than water; will float
Solubility in Water	Insoluble [NTP, 1992]
Log Pow (Partition Coeff.)	7.64–7.73 (peer-reviewed / estimated)
Evaporation Rate	Not established; very low (high boiling point)
Viscosity	~25.6 cP at 30°C



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VOC Content	Assess per applicable regional VOC regulations; verify with supplier
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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Oxidises slowly on prolonged exposure to air (yellowing / rancidity).
Conditions to Avoid	Heat above flash point (189°C), ignition sources, contamination, moisture ingress, prolonged exposure to air and light.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated mineral acids. Aluminium chloride (AlCl ₃) under elevated temperature is reactive but not a concern under normal ambient blending or storage.
Hazardous Decomposition	Carbon monoxide, carbon dioxide and irritating or toxic organic fumes may be produced in fire or on strong heating.
Hazardous Reactions	Will not occur under normal conditions when stored and handled correctly. No known hazardous polymerisation.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity by ingestion. No LD ₅₀ value from reviewed data — confirm with supplier SDS or ECHA dossier. Not classified for acute oral toxicity.
Acute Dermal Toxicity	Not classified for acute dermal toxicity based on reviewed source data. Numeric endpoint requires supplier / test confirmation.
Acute Inhalation Toxicity	Not classified for acute inhalation toxicity. Vapour pressure is extremely low; significant inhalation exposure unlikely at ambient temperature.
Skin Irritation	Classified Skin Irrit. 2 (H315): Causes skin irritation.
Eye Irritation	Classified Eye Irrit. 2 (H319): Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed source data. Confirm with supplier.
Carcinogenicity	Not classified. Not listed as carcinogen by IARC, NTP or OSHA.
Mutagenicity	Not classified for germ cell mutagenicity based on reviewed source data.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified in reviewed data. Obtain supplier / ecotoxicity data if needed for registration or export. Avoid release to water.
Persistence / Degradability	Expected to be biodegradable (fatty acid); however, ready biodegradability has not been universally verified for all grades. Confirm with supplier or ECHA data.
Bioaccumulation	High log Kow (7.64–7.73) suggests potential for bioaccumulation. BCF data not confirmed; verify with supplier / ECHA dossier.
Mobility in Soil	Low water solubility and high log Kow suggest low mobility in soil. Floats on water. Assess from adsorption potential and product form.
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 / national regulations. Do not discharge to drains, surface water or soil.
Contaminated Packaging	Empty containers may retain product residues; handle as potentially hazardous until cleaned or disposed of in accordance with local regulations.
Indian Regulations	Follow applicable rules under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and State Pollution Control Board requirements. Assign waste code according to actual process and applicable 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 regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	—



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Oleic Acid (CAS 112-80-1) has no UN transport entry under ADR, IMDG or IATA based on reviewed source data. Verify current carrier rules and any jurisdiction-specific requirements before each shipment. Use approved compatible containers (HDPE or steel drum). UN-certified packaging required for international transport even for non-regulated substances.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled in accordance with EU CLP Regulation (EC) No 1272/2008 as listed in Section 2. Observe REACH registration and downstream user obligations 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.
India	Observe applicable requirements under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 (amended), Environment Protection Act 1986, Hazardous Waste Rules 2016, and State Pollution Control Board regulations.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify and label using Section 2 classification; bilingual SDS/label and ingredient disclosure may be required for Canadian sale. China: apply GB/T SDS and classification requirements where marketed. Australia: check AICS inventory status before export or import. Middle East/GCC: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of local inventory status, 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

- H315 — Causes skin irritation



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- H319 — Causes serious eye irritation
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