



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)

AOS (Paste / Liquid / Powder)
SDS

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

CAS 68439-57-6 EC 270-407-8 SIGNAL WORD DANGER

GHS05

Corrosive (Serious Eye Damage)

GHS07

Irritant

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

Product Name	AOS (Paste / Liquid / Powder)
Product Type	Sodium alpha olefin sulfonate surfactant
Chemical Family	Anionic surfactant
CAS No.	68439-57-6
EC No.	270-407-8
Intended Use	Industrial / professional chemical use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Do not use in consumer or medicinal applications unless separately qualified.
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/aos-paste-liquid-powder
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

GHS Classification: Skin Irritation Category 2 (H315); Eye Damage Category 1 (H318).
Not classified for other GHS hazard classes based on reviewed source data.

Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive / Serious Eye Damage) GHS07 (Irritant)

HAZARD STATEMENTS

- H315 — Causes skin irritation
- H318 — Causes serious eye damage

PRECAUTIONARY – PREVENTION

- 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+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- 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.
- P310 — Immediately call a POISON CENTER or doctor.
- P321 — Specific treatment (see this label).
- P330 — Rinse mouth.
- P331 — Do NOT induce vomiting.
- 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.



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- 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
Sodium C14–16 olefin sulfonate (AOS)	68439–57–6	270–407–8	35–95 (depending on paste / liquid / powder grade)	Skin Irrit. 2 (H315); Eye Dam. 1 (H318)
Water / inert carrier	7732–18–5	231–791–2	Balance (where supplied as liquid or paste)	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 dust or mist is inhaled. Seek medical attention if respiratory irritation persists.
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. Continue rinsing. Seek immediate medical attention — serious eye damage hazard (H318).
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice promptly.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical or carbon dioxide.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Combustion may produce carbon oxides and sulphur oxides. Dust or fine particulate (powder grade) may form combustible or irritating atmospheres. Avoid dust clouds and ignition sources. Containers may rupture when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).



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Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and waterways.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid generating dust or mist. Wear appropriate PPE (see Section 8). Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Collect liquid grades by absorption on inert material (sand, earth). Collect powder grades mechanically. Transfer all collected material into labelled 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	Avoid eye and prolonged skin contact. Keep containers closed and protect powder grades from moisture. Handle in well-ventilated areas.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage. Protect powder grades from moisture and heat.
Storage Temperature	Ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidisers (nitric acid, chlorine, permanganates, peroxides); concentrated acids and halogens.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for CAS 68439-57-6. Apply ALARA / good industrial hygiene principles. Verify applicable local OEL (OSHA / NIOSH / ACGIH / EU / India) with supplier. Water (CAS 7732-18-5): no OEL applicable.
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Engineering Controls	Use closed handling / local exhaust ventilation for dust, mist, vapour or aerosol. Ensure adequate general ventilation.
Respiratory Protection	If ventilation is inadequate, use a NIOSH / EN approved respirator with particulate cartridge (P95 / P100) for dust or mist. Use SCBA for emergencies.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select for product and task breakthrough time. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield where splash risk exists. Body: chemical-resistant apron / clothing and safety footwear.
Hygiene Measures	Provide eyewash station and safety shower where appropriate. Wash thoroughly after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to pale yellow powder, paste or aqueous liquid depending on grade.
Odour	Characteristic.
Odour Threshold	Not established.
pH	Typically alkaline in aqueous solution (pH ~8–10 for 1% solution; verify with supplier for specific grade).
Melting / Freezing Point	See supplier specification (grade-dependent).
Boiling Point / Range	See supplier specification; aqueous grades approximate water (~100 °C at 1 atm).
Flash Point	Not classified as flammable. Aqueous and powder surfactant grades do not exhibit a flash point under standard test methods.
Auto-ignition Temperature	Not established.
Flammability Limits	Not established.
Vapour Pressure	Low or not established (aqueous grades approximate water vapour pressure).
Vapour Density (air = 1)	Not established.
Relative Density	See supplier specification (paste: ~1.0–1.1; liquid: ~1.0–1.05; powder: bulk density ~400–600 g/L — verify with supplier).
Solubility in Water	Soluble / dispersible in water.
Log Pow (Partition Coeff.)	Not established for commercial grade (UVCB substance).
Evaporation Rate	Not established.



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Viscosity	See supplier specification (grade-dependent; liquid grades typically low viscosity).
VOC Content	Assess per applicable regional VOC regulations; aqueous grades expected to be low.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and contact with incompatible materials. Protect powder grades from moisture.
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 under ambient blending or storage conditions.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and sulphur oxides (SO _x) may be formed in fire or high-temperature decomposition.
Hazardous Reactions	No hazardous polymerisation or other hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Not precisely determined for this grade. Sodium C14-16 olefin sulfonate: literature LD50 (rat, oral) reported in the range of 1,000–5,000 mg/kg; not classified for acute oral toxicity under GHS. Supplier confirmation recommended.
Acute Dermal Toxicity	Not precisely determined. No acute dermal toxicity classification identified from reviewed data. Supplier confirmation recommended.
Acute Inhalation Toxicity	Dust or mist may cause respiratory tract irritation. No acute inhalation toxicity classification identified from reviewed data. Supplier confirmation recommended.
Skin Irritation	Classified: Skin Irritation Category 2 (H315) — causes skin irritation.
Eye Irritation	Classified: Eye Damage Category 1 (H318) — causes serious eye damage.
Sensitisation	No skin or respiratory sensitisation classification identified from reviewed data. Numeric endpoint data requires supplier / test confirmation.



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Carcinogenicity	Not classified as a carcinogen. Not listed in IARC, NTP or OSHA carcinogen lists based on available data. Supplier confirmation recommended.
Mutagenicity	Not classified for germ cell mutagenicity. Numeric endpoint data requires supplier / test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic toxicity classification identified in Section 2 from reviewed data. AOS surfactants are known to be moderately toxic to aquatic organisms in some studies; obtain supplier / ECHA ecotoxicity data for registration or export use. Avoid uncontrolled release to water.
Persistence / Degradability	AOS surfactants are generally considered readily biodegradable; however, verify with supplier / ECHA data for the specific commercial grade before assuming ready biodegradability for regulatory purposes.
Bioaccumulation	Use verified log Kow / BCF data where available. UVCB surfactant materials require supplier formulation data for accurate assessment. Bioaccumulation potential considered low based on hydrophilic character.
Mobility in Soil	Assess from solubility and adsorption potential. Aqueous grades are mobile; 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 down drain untreated where prohibited.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed of by an approved contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and relevant State Pollution Control Board requirements.



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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	—

Dangerous goods status is based on available data for aqueous and powder surfactant grades. DG classification requires grade-specific verification against current ADR / IMDG / IATA criteria before each shipment. Ship in approved compatible containers appropriately labelled per carrier requirements. Do not represent as 'Not Regulated' without prior verification with a qualified DG adviser.

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 (Skin Irrit. 2; Eye Dam. 1).
OSHA (USA)	Prepared in OSHA HCS / HazCom aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution; UVCB / mixture status may require supplier confirmation.
India	Observe applicable MSIHC Rules, Factories Act, Environment Protection Act, Hazardous Waste Rules, and State Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label under WHMIS using Section 2 classification; Canadian sale may require bilingual SDS and ingredient disclosure. China (GB/T): use applicable GB/T SDS and classification requirements. Australia (AICS): verify inventory status before export or import. Middle East / GCC: observe applicable GHS-aligned local requirements. Regulatory scope limitation: final market placement requires confirmation of local inventory status, OELs, transport class, waste codes and restrictions.

SECTION 16 OTHER INFORMATION

Prepared By **Supreme Petro Chemicals** — Technical Department



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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
- H318 — Causes serious eye damage