



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)

Acid Thickener *SDS*

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

CAS 151-21-3 EC 205-788-1 SIGNAL WORD DANGER

GHS02 Flammable Solid	GHS05 Corrosive	GHS06 Acute Toxicity	GHS07 Harmful / Irritant
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Acid Thickener
Product Type	Sodium Lauryl Sulfate — corrosive / irritant chemical
Chemical Family	Sodium Lauryl Sulfate (Anionic Surfactant)
CAS No.	151-21-3
EC No.	205-788-1
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/acid-thickener
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Sol. 2; Acute Tox. 4 (oral); Acute Tox. 4 (inhalation); Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3; Aquatic Chronic 3	
Signal Word	DANGER



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GHS Pictograms

GHS02 (Flammable Solid) | GHS05 (Corrosive) | GHS06 (Acute Toxicity) | GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H228 — Flammable solid
- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H412 — Harmful to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- 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.



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- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- 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
Acid Thickener (Sodium Lauryl Sulfate)	151-21-3	205-788-1	100	Flam. Sol. 2; Acute Tox. 4 (oral); Acute Tox. 4 (inhal.); Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3; Aquatic Chronic 3

Percentages are by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move person to fresh air. Keep comfortable for breathing. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or 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. Seek medical advice immediately or call a POISON CENTER.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, CO ₂ , water spray, foam. Use media appropriate to surrounding materials.
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Unsuitable Media	Direct high-pressure water jet (may spread material or generate dust clouds).
Specific Hazards	Flammable solid (H228). Dust or fine particulate may form combustible or irritating atmospheres. Avoid dust clouds and ignition sources. Containers may rupture when heated. Combustion may produce toxic oxides of sulfur and carbon.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). EN 469 / NFPA certified fire suit.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways. Cool exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Keep unnecessary persons away. Use PPE as specified in Section 8. Avoid raising dust. Eliminate ignition sources.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify relevant authorities if significant release occurs. Product classified Aquatic Chronic 3 (H412).
Containment / Clean-up	Collect spilled material carefully using non-sparking tools into labelled, compatible containers. Avoid generating dust. Dispose through an approved waste contractor per Section 13.
Reference to Sections	Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate local exhaust ventilation. Avoid contact with skin, eyes and clothing. Avoid generating dust. Use non-sparking tools and grounded equipment. Keep away from heat, sparks and open flame.
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. Keep in a cool, dry, well-ventilated area away from ignition sources.
Storage Temperature	Ambient temperature unless supplier instructions specify otherwise. Keep cool.



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Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl_3) at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store locked up (P405).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	CAS 151–21–3 (Sodium Lauryl Sulfate): No established OSHA PEL or ACGIH TLV. Apply ALARA / good industrial hygiene practice. Verify local OEL (CPCB/state authority) before use.
Engineering Controls	Use closed handling systems and local exhaust ventilation for dust control. Use explosion-proof ventilation and equipment grounding.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 particulate cartridge. Use SCBA for emergencies or confined-space entry.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl, neoprene or PVC); select for breakthrough time. Eyes/face: EN 166/ANSI Z87.1 chemical splash goggles; face shield for splash risk. Body: chemical-resistant clothing/apron and safety footwear. Provide eyewash station and safety shower at workplace.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to cream powder or flakes
Odour	Faint odour of fatty substances
Odour Threshold	Not established
pH	7.2–8.0 (1% aqueous solution at 20 °C; verify from supplier COA/SDS)
Melting / Freezing Point	204 °C (399–405 °F) [NTP, 1992]
Boiling Point / Range	Decomposes above ~350 °C; no distinct boiling point (verify from supplier SDS)
Flash Point	~220 °C (open cup, estimated for SLS powder; substance classified Flam. Sol. 2 – confirm from supplier test data)
Auto-ignition Temperature	Not established from reviewed public sources; see supplier SDS
Flammability Limits	Classified Flam. Sol. 2; dust explosion risk in air; explosive concentration limits not established for this grade



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Vapour Pressure	Negligible at ambient temperature (solid surfactant)
Vapour Density (air = 1)	Not applicable (solid)
Relative Density	1.01–1.07 g/cm ³ at 20 °C (verify from supplier COA)
Solubility in Water	Freely soluble; approximately 150 g/L at 20 °C
Log Pow (Partition Coeff.)	1.60 (peer-reviewed literature value for Sodium Lauryl Sulfate)
Evaporation Rate	Not applicable (solid)
Viscosity	Not applicable (solid); see supplier SDS for solution viscosity
VOC Content	Negligible (solid); assess per applicable regional VOC regulations if formulated

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, ignition sources, dust clouds, contamination and 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 in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes (sulfur oxides) may be formed in fire or thermal decomposition above ~350 °C.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (H302; Acute Tox. 4). LD ₅₀ (rat, oral): ~1,288–2,000 mg/kg (literature range; confirm from supplier test data).
Acute Dermal Toxicity	No established LD ₅₀ from reviewed sources; dermal exposure may cause skin irritation (H315).
Acute Inhalation Toxicity	Harmful if inhaled (H332; Acute Tox. 4). LC ₅₀ / ATE (inhalation) requires supplier confirmation; dust inhalation may cause respiratory irritation (H335).
Skin Irritation	Causes skin irritation (H315; Skin Irrit. 2). Repeated exposure may worsen skin condition.
Eye Irritation	Causes serious eye damage (H318; Eye Dam. 1) and serious eye irritation (H319; Eye Irrit. 2). Both classifications present; H318 takes



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precedence on label.

Sensitisation	Not classified as a skin sensitiser based on available data. Confirm with supplier.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH. Verify from supplier SDS.
Mutagenicity	Not classified as a mutagen based on available data. Confirm from supplier.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Harmful to aquatic life with long lasting effects (H412; Aquatic Chronic 3). Acute aquatic toxicity data: LC ₅₀ (fish, 96 h) approximately 1–10 mg/L; EC ₅₀ (Daphnia, 48 h) approximately 2–5 mg/L (literature; confirm from supplier SDS).
Persistence / Degradability	Sodium Lauryl Sulfate is readily biodegradable under aerobic conditions (>60% BOD in 28-day studies). However, treat as persistent until supplier or ECHA verification is confirmed.
Bioaccumulation	Low bioaccumulation potential. Log Kow = 1.60 (below threshold of concern of 3.0). BCF data not established; high solubility limits bioaccumulation.
Mobility in Soil	High water solubility and low Kow indicate potential for leaching to groundwater. Prevent release to soil and watercourses.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations. Surfactant activity may affect aquatic organisms at low concentrations.

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 pour into drains, watercourses or soil.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous waste until cleaned or disposed. Return, recycle or dispose through approved channels per local regulation.
Indian Regulations	Follow applicable Hazardous Waste (Management, Handling and Transboundary Movement) Rules and State Pollution Control Board



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(SPCB/TNPCB) 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 regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	Not applicable

DG transport status requires grade/form verification against current ADR/IMDG/IATA criteria before each shipment. Solid SLS at 100% is not classified as Dangerous Goods under current editions, but dust/solution forms or blended grades may differ. Verify with carrier before international shipment. Use approved compatible container; UN-certified drum required for international transport.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to the GHS/CLP classification listed in Section 2. Observe REACH requirements (registration, downstream use obligations) where applicable. CAS 151-21-3 is on the ECHA public database.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, Factories Act, Environment Protection Act, Hazardous Waste Rules, and TNPCB/CPCB requirements. GST-registered supplier.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify/label under Section 2 classification; bilingual SDS may be required. Australia AICS: verify inventory status before export/import. China GB/T: use applicable SDS and classification requirements where marketed. GCC/Middle East: observe applicable GHS-aligned local requirements.

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

- H228 — Flammable solid
- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
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