



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

SLS Powder 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

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

Product Name	SLS Powder
Product Type	Sodium Lauryl Sulfate — surfactant / irritant chemical
Chemical Family	Alkyl sulfate 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/sls-powder
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; 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 dust / fume / gas / mist / vapours / 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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- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- 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
Sodium Lauryl Sulfate (SLS)	151-21-3	205-788-1	≥ 95 (technical grade; confirm with supplier COA)	Flam. Sol. 2 (H228); Acute Tox. 4 (H302, H332); Skin Irrit. 2 (H315); Eye Dam. 1 (H318); Eye Irrit. 2 (H319); STOT SE 3 (H335); Aquatic Chronic 3 (H412)

Percentages are by weight. Full text of H-statements listed in Section 16. Exact grade purity and minor impurities should be confirmed with the supplier Certificate of Analysis (COA).

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If symptoms persist or breathing is difficult, seek medical attention.
Skin Contact	Remove contaminated clothing immediately. 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 due to risk of serious eye damage (H318).
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately. Show this SDS to the attending physician.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known. Supportive care recommended.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry sand, dry chemical powder, CO ₂ , foam. Water spray or mist may be used to cool containers.
Unsuitable Media	Direct high-pressure water jet — may spread burning material and disperse dust.
Specific Hazards	Classified as a flammable solid (H228). Fine dust may form combustible or explosive dust clouds; avoid dust clouds and all ignition sources. Combustion produces carbon oxides and sulfur oxides (toxic/irritating fumes).
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Isolate combustion gases from inhabited areas.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains, sewers, and waterways. Containers may rupture when exposed to heat; cool with water spray from a safe distance.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the release area. Eliminate ignition sources — dust is flammable (H228). Use appropriate PPE from Section 8 including dust respirator, gloves, and eye protection. Avoid generating dust.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Product is harmful to aquatic life with long lasting effects (H412). Report significant environmental releases to the relevant authority.
Containment / Clean-up	Collect spilled material by vacuum or wet sweeping to minimize dust generation. Transfer to labelled, compatible, sealed containers for disposal. Do not flush to drain.
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 local exhaust ventilation to control dust. Avoid generating dust clouds. Keep away from heat, sparks, and ignition sources. Avoid skin, eye, and inhalation exposure. Use grounding/bonding where static may accumulate.
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Hygiene	Wash hands thoroughly after handling. Remove and launder contaminated clothing before reuse. Do not eat, drink, or smoke in handling areas.
Storage Conditions	Store in original, tightly closed, compatible containers in a cool, dry, well-ventilated area away from moisture and humidity. Keep away from heat and ignition sources.
Storage Temperature	Store at ambient temperature (preferably below 30°C); avoid humid conditions which may cause caking.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. Avoid contact with aluminium chloride at elevated temperatures.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals. Store locked up (P405) where required by local regulation.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific regulatory OEL established for SLS in India, EU, or OSHA at date of issue. Apply ALARA principle and good industrial hygiene. Verify current local OEL before use. CAS 151-21-3.
Engineering Controls	Use local exhaust ventilation (LEV) or enclosed handling to control airborne dust below any applicable exposure limit. Provide general dilution ventilation as a supplement. Use explosion-proof ventilation equipment.
Respiratory Protection	Where dust cannot be adequately controlled by engineering measures, use a NIOSH/EN approved particulate respirator (P95/P100 or FFP2/FFP3). Use SCBA for emergency/high-concentration scenarios.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile, neoprene, or equivalent) selected for the task duration and breakthrough time. Eyes: Chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for bulk handling. Skin: Chemical-resistant apron/coverall and safety footwear. Provide emergency eyewash and safety shower in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to cream-coloured powder or granules
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Odour	Faint odour of fatty substances
Odour Threshold	Not established
pH	7.2–8.5 (10 g/L aqueous solution at 20°C); not applicable to dry powder
Melting / Freezing Point	204–206°C (399–403°F) [NTP, 1992; PubChem CID 3423265]
Boiling Point / Range	Not applicable — decomposes before boiling; decomposes above ~250°C
Flash Point	Not applicable (solid; does not have a conventional closed-cup flash point). Ignition temperature approx. 250°C.
Auto-ignition Temperature	Not available from reviewed sources; verify with supplier
Flammability Limits	Classified Flam. Sol. 2 (H228). Dust explosion risk; LEL/UEL as dust cloud not established in reviewed sources.
Vapour Pressure	Negligible at ambient temperature (low-volatility solid)
Vapour Density (air = 1)	Not applicable (solid)
Relative Density	Approx. 1.01–1.04 g/cm ³ (bulk density approx. 0.45–0.55 g/cm ³ ; verify with supplier COA)
Solubility in Water	Freely soluble — approximately 150 g/L at 20°C (well-known surfactant property; verify grade-specific solubility with supplier)
Log Pow (Partition Coeff.)	1.60 (log Kow; peer-reviewed value, PubChem)
Evaporation Rate	Not applicable (solid)
Viscosity	Not applicable (solid powder)
VOC Content	Negligible / not applicable (solid, non-volatile)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above 250°C, ignition sources, moisture/humidity (causes caking), dust cloud formation. Avoid contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. Reactive with aluminium chloride (AlCl ₃) at elevated temperatures — not a concern under ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃), and other irritating or toxic fumes may be produced on combustion or pyrolysis.
Hazardous Reactions	Will not occur under normal conditions when stored and handled correctly. No polymerisation hazard.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Classified Acute Tox. 4 (H302 — Harmful if swallowed). LD ₅₀ (rat, oral) reported as approx. 1,288–1,300 mg/kg (PubChem / ECHA); confirm with supplier toxicological data sheet.
Acute Dermal Toxicity	No specific classification for dermal acute toxicity. Skin irritation classified (H315 — see below). LD ₅₀ (dermal) data not available in reviewed sources.
Acute Inhalation Toxicity	Classified Acute Tox. 4 (H332 — Harmful if inhaled). LC ₅₀ data not confirmed in reviewed sources; confirm with supplier.
Skin Irritation	Classified Skin Irrit. 2 (H315 — Causes skin irritation). Known detergent irritant on prolonged or repeated contact.
Eye Irritation	Classified Eye Dam. 1 (H318 — Causes serious eye damage) and Eye Irrit. 2 (H319). Risk of permanent eye damage; immediate irrigation required.
Sensitisation	Not classified as a skin sensitizer based on available data. Respiratory sensitisation: not classified.
Carcinogenicity	Not classified as carcinogenic. Not listed by IARC, NTP, or OSHA as a carcinogen.
Mutagenicity	Not classified as a mutagen based on available data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412 — Harmful to aquatic life with long lasting effects). Acute LC ₅₀ (fish) approx. 1–10 mg/L range (anionic surfactant typical); NOEC data: verify with supplier/ECHA REACH dossier.
Persistence / Degradability	SLS is readily biodegradable (>60% degradation within 28 days under OECD 301 test conditions). However, classified H412 due to aquatic hazard before full mineralisation; prevent environmental release.
Bioaccumulation	Log Kow = 1.60; low bioaccumulation potential (BCF expected to be <100). Not considered bioaccumulative.
Mobility in Soil	Highly water-soluble; mobile in soil and groundwater. Adsorption to soil may occur via surfactant interactions; prevent release to soil and groundwater.



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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 discharge to drain or water courses without treatment approval.

Contaminated Packaging

Empty containers may retain product residues — handle as hazardous until fully cleaned or disposed. Rinse packaging thoroughly. Offer for recycling where applicable.

Indian Regulations

Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable State Pollution Control Board requirements. Assign appropriate waste code based on actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated (verify grade)	Not regulated (verify grade)	Not regulated (verify grade)
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not assigned	Not assigned	Not assigned
Marine Pollutant	N/A	No (verify with supplier)	N/A

SLS Powder is generally not regulated as a dangerous good under ADR/IMDG/IATA when shipped as a non-flammable solid in appropriate packaging; however, the Flam. Sol. 2 classification (H228) must be verified against current ADR/IMDG/IATA criteria for the specific grade and particle size before each shipment. Do not ship as 'not regulated' until carrier classification is confirmed. Use UN-certified, compatible packaging.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Classified and labelled according to GHS/CLP classification listed in Section 2. Observe REACH (EC No. 1907/2006) and CLP (EC No. 1272/2008) requirements where applicable to EU market.



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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, 1989 (as amended); Hazardous and Other Wastes Rules, 2016; Environment Protection Act; and State Pollution Control Board requirements for handling, storage, transport, and disposal.
Other Jurisdictions	Canada: Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label. Australia: Check AICS inventory status. Middle East/GCC: Observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code, and any 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 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

- 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



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- H412 — Harmful to aquatic life with long lasting effects
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