



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)

Sodium Ligno Sulphonate

SDS

REV 1.0
31 JULY 2026
GHS REV.11 (2025)

CAS 8061-51-6

EC 617-124-1 (ECHA-assigned List number; not an EINECS number – lignosulfonates are UVCB substances)

SIGNAL WORD **DANGER**

GHS07

Harmful / Irritant

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

Product Name	Sodium Ligno Sulphonate
Synonyms	Sodium lignosulphonate; lignosulfonic acid, sodium salt. Note: the trade abbreviation "SLS" collides with sodium lauryl sulphate and is not used in this document.
Product Type	Anionic polymeric dispersant / binder (powder)
Chemical Family	Sulfonated lignin polymer (UVCB substance)
CAS No.	8061-51-6
EC No.	617-124-1 (ECHA-assigned List number; not an EINECS number – lignosulfonates are UVCB substances)
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer 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



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Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/sodium-ligno-sulphonate
SDS Revision	July 2026
SDS Version	1.0

SECTION 2 HAZARD IDENTIFICATION

Eye Irrit. 2 (H319) – applied on a precautionary basis, not on a harmonised classification. No CLP Annex VI harmonised classification exists for this substance, and the weight of reviewed source data reports it as NOT classified. Not classified for unlisted hazard classes based on reviewed source data.

Signal Word	WARNING
GHS Pictograms	GHS07 (Harmful / Irritant)
Classification Basis	Self-classification, applied to the precautionary case. Three reviewed sources report the substance as not classified: the producer Borregaard LignoTech states "no classification required" for Borresperse NA sodium lignosulphonate powder, supported by negative OECD 404 (skin) and OECD 405 (eye) studies; 90.1% of 503 company reports in the ECHA C&L inventory for EC 617-124-1 state it does not meet GHS criteria; and Spectrum Chemical's SDS (Rev. 2, January 2023) records it as not hazardous under the OSHA Hazard Communication Standard. A minority of suppliers self-classify Eye Irrit. 2 (H319) – Sigma-Aldrich product 471038 (lignosulfonic acid sodium salt) carries H319 with signal word Warning. SPC labels to the precautionary case. Verify from supplier COA and supplier SDS for the specific grade.
Additional Hazard — Dust	The powder is a combustible organic dust. The producer SDS records that the product may, at certain concentrations and at temperatures above 450°C, cause a dust explosion. This is not a GHS hazard class but is an operational control requirement.

HAZARD STATEMENTS

- H319 — Causes serious eye irritation

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe dust.



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- P264 — Wash hands and exposed skin thoroughly after handling.
- P280 — Wear protective gloves / eye protection / face protection.
- P271 — Use only outdoors or in a well-ventilated area where dust may be generated.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313 — If eye irritation persists: Get medical advice/attention.
- P302+P352 — IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P402+P404 — Store in a dry place. Store in a closed container.
- 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 Lignosulphonate (lignosulfonic acid, sodium salt)	8061-51-6	617-124-1	≥ 95 (dry substance); active matter ≥ 68	Eye Irrit. 2 (H319) — self-classified, precautionary. No CLP Annex VI harmonised entry.
Residual inorganic salts, reducing sugars and moisture	—	—	Balance	Not classified based on reviewed source data. Verify from supplier COA for specific grade.

Percentages are by weight and reflect the buyer specification (dry substance ≥95%, active matter ≥68%). This is a UVCB substance of variable molecular weight; the formula $C_{20}H_{24}Na_{2}O_{10}S_2$ quoted by PubChem (CID 25113562) is a notional repeat unit, not a true molecular formula. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air at once. If dust has been inhaled and symptoms (coughing, throat or airway irritation) persist, seek medical attention.
Skin Contact	Rinse the skin immediately with plenty of water and wash with soap. Remove contaminated clothing. The substance is reported as not a



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	skin irritant under OECD 404 (1981) producer study data; seek medical attention if irritation nevertheless persists.
Eye Contact	Promptly wash eyes with plenty of water while lifting the eyelids, for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.
Ingestion	Rinse mouth and drink plenty of water. Do not induce vomiting. Contact a physician if symptoms appear or if a significant quantity has been swallowed. Acute oral toxicity is low — LD50 (rat, oral) > 7,000 mg/kg.
Note to Physician	Treat symptomatically based on exposure route. No specific antidote is required or known; no delayed effects are reported in the reviewed source data.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water, dry chemical powder, foam or carbon dioxide.
Unsuitable Media	Avoid straight or high-pressure hose streams, which scatter the powder and can spread the fire and raise a dust cloud.
Specific Hazards	Combustible organic powder. The producer SDS records that the product may, at certain concentrations and at temperatures above 450°C, cause a dust explosion. On combustion, oxides of carbon and sulphur may be evolved — the producer's typical analysis reports approximately 7% sulphur.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Keep upwind.
Special Procedures	Evacuate non-essential personnel. Avoid raising dust clouds while fighting the fire. Keep intact bags cool. Prevent contaminated runoff from entering drains and watercourses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dust formation, particularly in confined areas. Mechanical ventilation or local exhaust may be necessary. Wear appropriate PPE (see Section 8), including eye protection. Eliminate ignition sources where a dust cloud may form in a confined area.
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Environmental Precautions	Avoid release of significant quantities to water sources, sewers or the environment. Although the substance is not classified as toxic for fish under OECD 203, it exerts a high oxygen demand (COD reported at 3,300 mg O ₂ /L on a 0.25% solution).
Containment / Clean-up	Collect with a vacuum cleaner or sweep carefully together and collect, avoiding generation and spreading of dust. Use a dust-rated industrial vacuum where available. Collect in containers and seal securely. Do not flush to drain. Rinse the residual area clean with water only where the washings can be contained.
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	The product has low toxicity, so risk in normal handling is limited. Avoid generating or breathing dust. Use closed transfer or local exhaust ventilation when decanting or pneumatically conveying the powder. Ground and bond equipment where dust clouds may form. Avoid contact with eyes.
Hygiene	Wash hands and exposed skin after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Keep containers dry. Store sealed bags on pallets, off the floor, in a cool, dry, well-ventilated area under cover. The powder is hygroscopic in practice and cakes on moisture pickup, so dryness is the controlling storage requirement. Use moisture-barrier (PE-lined) bags where the material is to be held for extended periods.
Storage Temperature	Ambient. Avoid heating; do not store near heat sources or hot surfaces.
Incompatible Materials	The producer SDS records "materials to avoid: none known". The following are SPC formulation guidance rather than sourced incompatibilities: cationic surfactants, cationic polymers and cationic dyes, because the substance is an anionic polyelectrolyte and complexes and precipitates with cationics; strong acids, which protonate the sulphonate; and strong oxidising agents as a general precaution for a sulphonated organic polymer. The producer TDS confirms compatibility with anionic and non-ionic materials,



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dispersants, wetting agents and most organic and inorganic materials, which is the basis for the cationic caution stated here.

Segregation

Segregate from cationic formulation components, strong acids and strong oxidisers. Keep away from food, drink and animal feed except where a feed-grade lot is being handled for that purpose.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit

Sodium Lignosulphonate (CAS 8061-51-6): no substance-specific 8h TWA OEL located in reviewed sources. The producer SDS applies a total nuisance-dust limit of 10 mg/m³ (8h, Norwegian 2001 values). Control to the applicable local limits for inhalable and respirable particulate not otherwise regulated, and apply good industrial hygiene. Verify the local OEL and any ceiling/STEL (OSHA / NIOSH / ACGIH / EU / India) where established.

Engineering Controls

Provide good ventilation. Use closed handling systems and local exhaust ventilation at bag-tipping, blending and transfer points. Design dust-handling equipment for combustible organic dust. Provide emergency eyewash stations in work areas.

Respiratory Protection

Wear a respirator if there is dust formation. Where dust cannot be adequately controlled by ventilation, use a NIOSH/EN-approved P95 or P100 (FFP2/FFP3) particulate respirator. Use SCBA for emergency and fire situations.

Hand / Eye / Skin

Hands: the producer SDS notes the product is not classified as a skin irritant but recommends gloves — use general-purpose chemical-resistant gloves (nitrile or PVC). Eyes: approved goggles, or EN 166 / ANSI Z87.1 safety glasses with side shields where dust levels are low. Skin: suitable protective clothing and safety footwear; change out of dusty clothing before leaving the workplace.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Light brown to dark brown free-flowing powder.

Odour

Slight.

Odour Threshold

No data located in reviewed sources.

pH

Grade-dependent. Producer reference grade: 7–10 (10% aqueous solution) per the Borresperse NA SDS, with a sales specification of



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	8.3 ± 0.8. Unneutralised / acid-form grades run lower. Verify from supplier COA for specific grade.
Melting / Freezing Point	> 130°C (producer SDS). Lignosulphonate is an amorphous polymer and does not show a sharp melting point; treat this as a softening figure.
Decomposition Temperature	No decomposition temperature located in reviewed sources — the producer SDS gives none, and Spectrum Chemical's SDS records "no data available". The producer SDS does warn that the dust may cause a dust explosion at sufficient concentration above 450°C. Verify from supplier SDS for the specific grade.
Boiling Point / Range	Not relevant — non-volatile polymeric solid (recorded as "not relevant" on the producer SDS).
Flash Point	Not applicable — non-volatile solid with no measurable flash point. The relevant fire hazard is combustible dust, not vapour.
Auto-ignition Temperature	No data located in reviewed sources.
Flammability Limits	Not applicable to a solid. Airborne dust is combustible; see Section 5.
Vapour Pressure	Not relevant — non-volatile solid (producer SDS).
Vapour Density (air = 1)	Not applicable (solid; negligible vapour at ambient conditions).
Relative Density	Bulk density approximately 520 kg/m ³ (≈0.52 g/cm ³) — producer SDS. True (particle) density not located in reviewed sources.
Solubility in Water	Fully soluble. Water-insoluble matter max 0.3% on the producer reference grade sales specification.
Log Pow (Partition Coeff.)	Not applicable — polymeric, water-soluble salt; does not partition meaningfully into an organic phase.
Evaporation Rate	Not applicable (solid at ambient conditions).
Viscosity	Not applicable (solid). Aqueous solution viscosity is concentration- and grade-dependent.
Molecular Weight	Variable — UVCB polymer; molecular weight is strongly grade-dependent. One laboratory reference grade (Sigma-Aldrich product 471038) is characterised at average Mw ≈ 52,000 and Mn ≈ 7,000; this figure is product-specific and must not be assumed for commercial grades. The formula C ₂₀ H ₂₄ Na ₂ O ₁₀ S ₂ quoted by PubChem (CID 25113562) is a notional repeat unit only.
VOC Content	No data located in reviewed sources; the substance is a non-volatile polymeric solid.



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	The product is stable for several years under dry storage conditions (producer SDS). Hygroscopic in practice; store sealed and dry.
Conditions to Avoid	Moisture and humidity (caking, loss of flow). Dust generation and accumulation, particularly in confined areas. Heating, and any condition producing a dust cloud near an ignition source.
Incompatible Materials	The producer SDS records "materials to avoid: none known". SPC formulation guidance (not a sourced incompatibility): cationic surfactants, cationic polymers and cationic dyes complex and precipitate with this anionic polyelectrolyte; strong acids precipitate the free lignosulphonic acid; strong oxidising agents are avoided as a general precaution. The producer TDS confirms compatibility with anionic and non-ionic materials, which is the basis for the cationic caution.
Hazardous Decomposition	Under normal conditions, none known per the producer SDS. On combustion, oxides of carbon (CO, CO ₂) and sulphur (SO _x) may be evolved.
Hazardous Reactions	No hazardous polymerisation or self-reactive decomposition reported under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): > 7,000 mg/kg — Borregaard LignoTech Borresperse NA published SDS for sodium lignosulphonate powder (CAS 8061-51-6).
Acute Dermal Toxicity	No numeric endpoint located in reviewed sources. Not expected to be acutely toxic by the dermal route.
Acute Inhalation Toxicity	No numeric endpoint located in reviewed sources. Dust may cause mechanical irritation of the respiratory tract; apply dust control and good industrial hygiene.
Skin Irritation	Not classified as a skin irritant — OECD Guideline 404 (1981), producer study data.
Eye Irritation	Source-conflicted. Producer study data reports the product is not classified as an eye irritant — OECD Guideline 405 (1981). Some suppliers nevertheless self-classify Eye Irrit. 2 (H319), including Sigma-Aldrich product 471038. SPC labels to the precautionary



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	case; verify from supplier COA and supplier SDS for the specific grade.
Sensitisation	No skin or respiratory sensitisation known for the product per the producer SDS.
Carcinogenicity	No carcinogenicity classification or study data located in reviewed sources.
Mutagenicity	No mutagenicity or genotoxicity study data located in reviewed sources.
Reproductive Toxicity	No reproductive toxicity study data located in reviewed sources.
Chronic / Repeated Exposure	"No such effect known for the product" per the producer SDS. Supporting context: EFSA's FEEDAP panel concluded lignosulphonate is safe for all animal species at up to 8,000 mg/kg complete feed (EFSA Journal 2023;21(4):7956), based on a 56-day dairy cow trial and a 91-day rainbow trout trial. That opinion addresses lignosulphonate as a feed additive generically and does not specify the salt form.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Not classified as toxic for fish under OECD method 203 (producer SDS). No numerical LC50 or EC50 values for fish, daphnia or algae were located in reviewed sources.
Persistence / Degradability	Classified as inherently biodegradable under OECD method 302B (producer SDS).
Bioaccumulation	Not expected to bioaccumulate — water-soluble polymeric salt. No BCF value located in reviewed sources.
Mobility in Soil	Mobile in soil owing to full water solubility. No specific adsorption/desorption data located in reviewed sources.
Chemical Oxygen Demand	COD 3,300 mg O ₂ /L on a 0.25% solution (producer SDS) — a high oxygen demand.
Other Adverse Effects	Despite the absence of an environmental hazard classification, avoid release of significant quantities to watercourses or sewers because of the high oxygen demand. Manage releases under applicable local environmental regulations.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	The producer SDS states the product can be landfilled or incinerated in accordance with local regulations. Dispose of through an authorised waste contractor. Do not discharge significant quantities to drains, watercourses or soil because of the high chemical oxygen demand. Where incinerated, use an approved facility with flue-gas treatment for sulphur oxides.
Contaminated Packaging	Empty bags may retain powder residues. Do not reuse. Collect and dispose of, or recycle, under local packaging waste regulations. Avoid raising dust when emptying and folding bags.
Indian Regulations	Follow applicable Hazardous Wastes (Management, Handling and Transboundary Movement) Rules under the Environment Protection Act, and SPCB/CPCB requirements. Assign waste code per actual process and local regulatory schedule.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not assigned — not regulated	Not assigned — not regulated	Not assigned — not regulated
Proper Shipping Name	Not a dangerous good; ship under the commercial description "Sodium Lignosulphonate"	Not a dangerous good; ship under the commercial description "Sodium Lignosulphonate"	Not a dangerous good; ship under the commercial description "Sodium Lignosulphonate"
Class	Not applicable	Not applicable	Not applicable
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	No	No	—
EmS / Tunnel Code	Not applicable	Not applicable	—

Not classified as dangerous goods under ADR/RID, IMDG or IATA in the sources reviewed — the producer SDS Section 14 records "Classified as Dangerous Goods: No". Standard non-hazardous general-cargo documentation applies. Ship in sealed, palletised, moisture-barrier bags and keep dry in transit. Verify current carrier, modal and destination rules before each shipment.



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

No CLP Annex VI harmonised classification entry exists for CAS 8061-51-6 / EC 617-124-1; the classification in Section 2 is self-classification applied precautionarily. ECHA holds notified data only, and notifications are divided — 90.1% of 503 company reports state the substance does not meet GHS criteria. The producer SDS records "EC-Label: No". Subject to REACH obligations where applicable — note that lignosulfonates are UVCB substances. Observe Annex II SDS requirements.

OSHA (USA)

Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. Spectrum Chemical's SDS (Rev. 2, January 2023) records sodium lignosulfonate as not considered hazardous under 29 CFR 1910.1200. Verify TSCA inventory status before US import or distribution.

India

Import classification: HSN 3804 00 10 — lignin sulphonates. Observe applicable Indian regulations: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (amended); Environment Protection Act; Hazardous Wastes Rules; SPCB/CPCB requirements; applicable workplace safety regulations, including dust-control requirements for combustible organic powders.

Feed Use

EFSA's FEEDAP panel has issued an opinion on lignosulphonate as a feed additive, concluding it is safe for all animal species at a maximum content of 8,000 mg/kg complete feed (EFSA Journal 2023;21(4):7956). That opinion is not salt-specific. Feed use requires a lot supplied and documented as feed grade; confirm authorisation status in the market of use.

Other Jurisdictions

China: verify GB/T SDS and classification requirements where marketed. Canada: classify/label under WHMIS 2015/HPR using the Section 2 classification; bilingual SDS/label and ingredient disclosure may be required. Australia/GCC/other: check local inventory and classification requirements before export or import. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.



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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	31 July 2026
Version	1.0 (first issue)
Grade Variability Note	This is a UVCB substance and its properties vary by producer and grade. Where a value is grade-dependent, verify from supplier COA for the specific grade.
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

- H319 — Causes serious eye irritation

KEY SOURCE DATA

- Identity, List number and UVCB status — ECHA Substance Information InfoCard 100.111.815; PubChem CID 25113562 (formula C20H24Na2O10S2).
- ECHA C&L notification split (90.1% of 503 company reports not classified) — PubChem GHS aggregation for EC 617-124-1.
- Physical properties, toxicology (OECD 404 / 405 / 203 / 302B), COD, nuisance-dust OEL, dust-explosion temperature and transport status — Borregaard LignoTech published Borresperse NA TDS and SDS for sodium lignosulphonate powder (CAS 8061-51-6).
- Independent not-classified confirmation — Spectrum Chemical Mfg. Corp. SDS, Sodium Lignosulfonate Technical (S1854), Rev. 2, 10 January 2023.
- Divergent eye-irritation self-classification and laboratory-grade molecular weight — Sigma-Aldrich product 471038 (lignosulfonic acid sodium salt).
- Feed-safety context — EFSA FEEDAP opinion on lignosulphonate as a feed additive, EFSA Journal 2023;21(4):7956.
- Related salts — calcium lignosulphonate CAS 8061-52-7; ammonium lignosulphonate CAS 8061-53-8; desulfonated/sulfomethylated sodium lignosulphonate CAS 68512-34-5.



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- Import classification — Indian Customs Tariff heading 3804, sub-heading 3804 00 10 (lignin sulphonates).
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