



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 Sulphate *SDS*

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

CAS 7757-82-6 EC 231-820-9 SIGNAL WORD **DANGER**

GHS08

Health Hazard

GHS07

Irritant

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

Product Name	Sodium Sulphate
Product Type	Sodium Sulphate — industrial inorganic salt
Chemical Family	Inorganic Sulphate Salt
CAS No.	7757-82-6
EC No.	231-820-9
Intended Use	Industrial / professional use as described on the SPC product page. Used in detergents, glass manufacturing, pulp & paper (Kraft process), textile dyeing, and chemical synthesis.
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/sodium-sulphate
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

GHS/CLP Classification: Eye Irritation – Category 2B (H320); Specific Target Organ Toxicity – Single Exposure, Category 1 (H370).

GHS Classification	Eye Irritation Category 2B; STOT-SE Category 1
Signal Word	DANGER
GHS Pictograms	GHS08 (Health Hazard); GHS07 (Irritant)

HAZARD STATEMENTS

- H320 — Causes eye irritation.
- H370 — Causes damage to organs.

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe dust / fume / gas / mist / vapours / spray.
- P264 — Wash hands and exposed skin thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P271 — Use only outdoors or in a well-ventilated area.
- 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.
- 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.
- P308+P311 — IF exposed or concerned: Call a POISON CENTER or doctor.
- P331 — Do NOT induce vomiting.
- P337+P313 — If eye irritation persists: Get medical advice / attention.
- P403+P233 — Store in a well-ventilated place. Keep container tightly closed.
- 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
Sodium Sulphate (Na ₂ SO ₄)	7757- 82-6	231- 820-9	≥99 (anhydrous) / ≥99 (decahydrate grade as applicable)	H320; H370

Percentages are by weight. Substance is supplied as anhydrous powder or decahydrate crystals (CAS 7727-73-3 for decahydrate); confirm grade with supplier COA. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If symptoms persist (coughing, difficulty breathing), seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists.
Eye Contact	Immediately rinse cautiously with clean water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice. If large quantities ingested, call a Poison Control Centre immediately.
Note to Physician	Treat symptomatically. H370 (STOT-SE Cat. 1) — assess organ function based on exposure route and quantity. Supportive care; no specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Sodium sulphate is non-combustible. Use extinguishing media appropriate to surrounding fire (water, dry chemical, CO ₂ , foam).
Unsuitable Media	None specifically; avoid high-pressure water jet that may disperse dust or contaminate waterways.
Specific Hazards	Non-flammable inorganic salt. In fire, may release irritating sulphur oxide fumes (SO ₂ , SO ₃). Containers may rupture under intense heat. No explosion risk under normal conditions.



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Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) where fumes or dust may be generated.
Special Procedures	Prevent contaminated fire-fighting run-off from entering drains or watercourses. Evacuate non-essential personnel. Cool exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Wear PPE as specified in Section 8 (dust mask/respirator, gloves, eye protection). Avoid generating dust. Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Sodium sulphate in large quantities may alter aquatic salinity; notify authorities if significant release occurs.
Containment / Clean-up	Sweep or vacuum up spilled material carefully to avoid raising dust. Collect into clearly labelled, compatible, sealed containers for disposal. Do not flush to drain. Wash spill area with water after collection.
Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate local exhaust or general ventilation to control dust. Avoid generating dust during handling and transfer. Keep container tightly closed when not in use.
Hygiene	Wash hands and exposed skin thoroughly after handling. Remove and launder contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers in a cool, dry, well-ventilated area, away from moisture. Protect from water ingress – decahydrate formation alters product form.
Storage Temperature	Ambient temperature (15–35°C). Anhydrous grade: keep dry. Above 32.4°C anhydrous is stable; below converts to decahydrate if moisture is present.
Incompatible Materials	Strong reducing agents; aluminium chloride (AlCl ₃) under elevated temperature. Avoid prolonged contact with strong mineral acids



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(converts to bisulphate). Generally chemically stable.

Segregation	Segregate from food, drink, animal feed, strong acids, and reducing agents.
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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Sulphate (CAS 7757-82-6): No specific OSHA PEL or ACGIH TLV established. Apply ALARA (As Low As Reasonably Achievable) / good industrial hygiene practice. Dust: apply general inert particulate OSHA PEL 15 mg/m ³ (total) / 5 mg/m ³ (respirable) as guidance. Verify local/national OEL with supplier SDS before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) to control dust generation. Provide general dilution ventilation where LEV is not feasible. No explosion-proof requirements (non-flammable).
Respiratory Protection	For dust concentrations exceeding guidance levels: use NIOSH-approved P95 or P100 particulate respirator. For confined spaces or heavy dust: use SCBA or supplied-air respirator.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile or PVC gloves. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; face shield where dust or splash risk is high. Body: chemical-resistant apron/clothing and safety footwear. Eyewash station and safety shower should be accessible where this material is used.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder or granules (anhydrous); colourless to white crystals (decahydrate form, Glauber's salt)
Odour	Odourless
Odour Threshold	Not applicable (odourless)
pH	6.0–8.0 (5% aqueous solution at 20°C) — neutral to slightly alkaline
Melting / Freezing Point	884°C (anhydrous); decahydrate melts at 32.4°C
Boiling Point / Range	~1429°C (decomposes before boiling at atmospheric pressure)
Flash Point	Not applicable — non-combustible inorganic salt
Auto-ignition Temperature	Not applicable — non-combustible
Flammability Limits	Not applicable — non-combustible
Vapour Pressure	Negligible at ambient temperature (solid inorganic salt)



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Vapour Density (air = 1)	Not applicable (solid)
Relative Density	2.671 g/cm ³ (anhydrous, at 20°C); 1.464 g/cm ³ (decahydrate)
Solubility in Water	28.1 g / 100 g water at 25°C (anhydrous); highly soluble
Log Pow (Partition Coeff.)	Not applicable — ionic inorganic salt; does not partition into organic phase
Evaporation Rate	Not applicable (solid)
Viscosity	Not applicable (solid)
VOC Content	0 g/L — inorganic salt, no volatile organic content

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Anhydrous form is stable above 32.4°C; below this temperature converts to decahydrate (Na ₂ SO ₄ ·10H ₂ O) in the presence of moisture.
Conditions to Avoid	Exposure to moisture (anhydrous grade), high temperatures above decomposition point, contamination with incompatible materials.
Incompatible Materials	Aluminium chloride (AlCl ₃) at elevated temperature — reactive. Strong mineral acids (H ₂ SO ₄ , HCl) convert sodium sulphate to sodium bisulphate. Avoid prolonged contact with strong reducing agents.
Hazardous Decomposition	Above ~1429°C: may decompose to sodium oxide (Na ₂ O) and sulphur oxides (SO ₂ , SO ₃). In fire: may emit irritating/toxic sulphur oxide fumes. No hazardous decomposition under normal storage conditions.
Hazardous Reactions	Will not occur under normal storage and handling conditions when stored correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Sodium Sulphate: LD ₅₀ (oral, rat) = 5,989 mg/kg (PubChem / RTECS). Low acute oral toxicity. Classified H370 (STOT–SE Cat. 1) — organ damage (see source classification); numeric STOT endpoint should be confirmed with supplier toxicology data.
Acute Dermal Toxicity	Not specifically classified for acute dermal toxicity. Skin contact: low hazard expected for inorganic salt. Confirm with supplier SDS / toxicology report.



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Acute Inhalation Toxicity	Dust inhalation may cause respiratory irritation. No specific acute inhalation LC50 established in reviewed public data. Apply dust OEL guidance (Section 8).
Skin Irritation	Not classified as a skin irritant based on reviewed data. Prolonged contact with wet material may cause mild irritation. Wash promptly.
Eye Irritation	Classified H320 — Causes eye irritation (Eye Irritation Category 2B). Dust or solution contact may cause irritation, redness, tearing. Rinse immediately.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, OSHA or EU CLP based on available reviewed data.
Mutagenicity	Not classified as a mutagen. No genotoxicity data indicating concern based on reviewed public sources.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic toxicity classification assigned in Section 2. Sodium sulphate occurs naturally in aquatic environments (inorganic salt). At high concentrations, it may alter osmotic balance and salinity, affecting aquatic organisms. LC50 (fish, 96h): > 10,000 mg/L (literature reference). Avoid large-volume discharge to water bodies.
Persistence / Degradability	Inorganic salt — not subject to biodegradation. Persistent in environment; does not degrade abiotically or biotically. Sulphate is a naturally occurring anion and is part of the normal sulphur cycle.
Bioaccumulation	Not expected to bioaccumulate. Log Pow not applicable (ionic substance). BCF not meaningful for inorganic salts.
Mobility in Soil	Highly water-soluble — mobile in soil and groundwater. May leach into groundwater if released in quantity. Prevent large-scale release to soil.
Other Adverse Effects	No specific ozone-depletion or global-warming potential. Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of product contents through an authorised waste contractor in accordance with local, state and national regulations. Sodium sulphate may be recoverable or recyclable – consult a licensed waste management specialist.
Contaminated Packaging	Empty containers may retain residues. Do not reuse containers for food, feed or drinking water. Handle as potentially hazardous until cleaned to applicable standards or disposed of through an approved waste contractor.
Indian Regulations	Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable CPCB / State PCB requirements. Confirm waste category with local Pollution Control Board before disposal.

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 a dangerous good	Not regulated — not a dangerous good	Not regulated — not a dangerous good
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	N/A	No	N/A

Sodium Sulphate (anhydrous or decahydrate) is not classified as a dangerous good under ADR, IMDG or IATA-DGR. No UN number, placarding or DG documentation required. Use approved, compatible, sealed packaging. Verify current carrier rules and consignee country requirements before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH registration and CLP classification/labelling requirements where applicable. Classified per EU CLP as per Section 2 H-statements. Check ECHA C&L Inventory for consensus classification. SVHC: not listed on ECHA SVHC Candidate List based on current data.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. TSCA: sodium sulphate is listed on the TSCA Inventory



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	(active). Verify inventory status before US import or distribution.
India	Observe applicable requirements under: MSIHC Rules 1989 (Schedule handling where applicable); Environment Protection Act 1986; Hazardous Waste Rules 2016; Factories Act 1948; CPCB guidelines. Confirm current waste code with State PCB.
Other Jurisdictions	Canada WHMIS/HPR: classify and label under WHMIS 2015 using Section 2 classification; bilingual SDS/label may be required for Canadian market. China GB Standards: apply GB/T SDS and classification requirements where marketed. Australia AICS: confirm inventory status before import/export. Final market placement requires confirmation of local OELs, transport classification, 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

- H320 — Causes eye irritation.
- H370 — Causes damage to organs. (Route of exposure and target organ should be specified by the supplier where known; source SDS does not specify organ/route — see flag.)