



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)

Sodium Bisulphite *SDS*

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

CAS 7631-90-5 EC 231-548-0 SIGNAL WORD DANGER

GHS05

Corrosive / Eye Damage

GHS07

Harmful / Irritant

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

Product Name	Sodium Bisulphite
Product Type	Reducing agent / preservative
Chemical Family	Inorganic sulphite
CAS No.	7631-90-5
EC No.	231-548-0
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
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/sodium-bisulphite
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 4 (Oral); Eye Dam. 1 – H302, H318



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GHS Classification	Acute Toxicity, Oral, Category 4 (H302); Serious Eye Damage, Category 1 (H318)
Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive / Eye Damage) GHS07 (Harmful / Irritant)
Other Hazard Classes	Not classified for unlisted hazard classes based on reviewed source data.

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H318 — Causes serious eye damage

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe dust / fume / gas / mist / vapours / spray.
- P264 — Wash hands thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- 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.
- P301+P330+P331 — IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- 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.
- 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 Bisulphite	7631-90-5	231-548-0	100	Acute Tox. 4 (Oral); Eye Dam. 1 — H302, H318

Full text of H-statements listed in Section 16.



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SECTION 4 FIRST AID MEASURES

Inhalation	Move person to fresh air. If dust has been inhaled and irritation persists, seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. 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. Seek immediate medical attention – serious eye damage is possible.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Sulphite-sensitive individuals (e.g. asthmatics) may be at increased risk; sulphur dioxide may be liberated in the presence of acid.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical powder or carbon dioxide suitable for surrounding fire.
Unsuitable Media	Avoid direct high-pressure water jet where it may spread the material.
Specific Hazards	Sodium bisulphite is not flammable. On decomposition or contact with acids it releases sulphur dioxide (SO ₂), an irritating and toxic gas. Containers may rupture when strongly heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel.
Special Procedures	Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dust generation. Wear appropriate PPE (see Section 8). Do not breathe dust.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant quantities enter the environment.



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Containment / Clean-up	Sweep or vacuum material carefully into labelled, compatible containers. Prevent release to drains. Avoid raising dust. Collect and transfer to 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	Keep material dry. Avoid contact with acids — acids liberate sulphur dioxide. Avoid dust formation. Do not breathe dust.
Hygiene	Wash hands after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise. Keep away from heat sources.
Incompatible Materials	Strong oxidisers (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens. Acids liberate sulphur dioxide.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store away from acids and oxidisers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Bisulphite (CAS 7631-90-5): No universal OEL established. Apply ALARA / good industrial hygiene principles. Confirm with OSHA, NIOSH, ACGIH, EU BOELV or local authority. For SO ₂ (if generated): OSHA PEL 5 ppm; ACGIH TLV-TWA 0.5 ppm.
Engineering Controls	Use closed handling or local exhaust ventilation to control dust. Ensure adequate general ventilation. Provide eyewash and safety shower where eye or skin contact is possible.
Respiratory Protection	If ventilation is inadequate, use a NIOSH / EN 143 P2/P3 particulate respirator or SCBA for emergencies.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC), selected for breakthrough time and task. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for high-splash risk. Body: chemical-resistant clothing or apron and safety footwear.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white crystalline powder or granules.
Odour	Slight sulphurous (SO ₂) odour.
Odour Threshold	Not established.
pH	Acidic in aqueous solution (approx. 4.0–5.0 at 10% w/v).
Melting / Freezing Point	Decomposes above approx. 150 °C (no distinct melting point). See supplier specification.
Boiling Point / Range	Not applicable (decomposes before boiling).
Flash Point	Not applicable — non-flammable solid.
Auto-ignition Temperature	Not applicable.
Flammability Limits	Not applicable.
Vapour Pressure	Negligible at ambient temperature.
Vapour Density (air = 1)	Not applicable (solid).
Relative Density	Approx. 1.48 g/cm ³ at 20 °C. See supplier specification.
Solubility in Water	Freely soluble (approx. 300 g/L at 20 °C).
Log Pow (Partition Coeff.)	Not applicable (inorganic salt).
Evaporation Rate	Not applicable (solid).
Viscosity	Not applicable (solid).
VOC Content	Nil (inorganic solid).

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Decomposes on heating above approx. 150 °C, releasing sulphur dioxide.
Conditions to Avoid	Heat above decomposition temperature, contact with acids, strong oxidising agents, moisture (accelerates oxidation to sulphate).
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids; halogens. Contact with acids liberates sulphur dioxide gas.
Hazardous Decomposition	Sulphur dioxide (SO ₂) and sodium oxide / sodium sulphate on decomposition or fire. SO ₂ is toxic and irritating.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal conditions when stored and handled correctly.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (H302). Oral LD50 (rat) reported in literature as approx. 2000 mg/kg. Sulphite-sensitive individuals (e.g. asthmatics) may experience bronchospasm. Acids in the stomach may liberate SO ₂ .
Acute Dermal Toxicity	Not classified. May cause mild irritation on prolonged contact. No specific LD50 data identified in reviewed sources.
Acute Inhalation Toxicity	Not classified by inhalation, but dust inhalation may cause respiratory irritation. If SO ₂ is generated (e.g. acid contact), LC50 data for SO ₂ applies: inhalation is hazardous.
Skin Irritation	May cause mild skin irritation on prolonged or repeated contact. Not classified as a skin irritant under GHS based on reviewed data.
Eye Irritation	Causes serious eye damage (H318). Solid or concentrated solution contact can cause irreversible damage; immediate irrigation required.
Sensitisation	May cause allergic reaction in sulphite-sensitive individuals (asthmatics). Not classified as a respiratory or skin sensitizer under GHS based on reviewed data.
Carcinogenicity	Not classified. Not listed as a carcinogen by IARC, NTP, OSHA or EU CLP based on reviewed data.
Mutagenicity	Not classified. No significant mutagenic potential identified in reviewed data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic toxicity classification identified in Section 2 from reviewed data. Sodium bisulphite consumes dissolved oxygen in water, which can be harmful to aquatic organisms. Avoid release to waterways.
Persistence / Degradability	Readily oxidised to sodium sulphate in water; not persistent in the conventional sense. Confirm biodegradability data with supplier if required for registration.
Bioaccumulation	Low bioaccumulation potential. Log Pow not applicable (inorganic salt).
Mobility in Soil	Highly water-soluble; may leach into groundwater. Prevent release to soil.



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Other Adverse Effects

Avoid uncontrolled release. Oxygen depletion in water can harm aquatic life. 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 dispose of via drains or into the environment.

Contaminated Packaging

Empty containers may retain residues; handle as hazardous until cleaned or disposed of. Return to supplier or dispose through an approved contractor.

Indian Regulations

Follow applicable requirements under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules and applicable State Pollution Control Board notifications.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2693	UN 2693	UN 2693
Proper Shipping Name	BISULPHITES, AQUEOUS SOLUTION, N.O.S.	BISULPHITES, AQUEOUS SOLUTION, N.O.S.	BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Class	8	8	8
Packing Group	III	III	III
Marine Pollutant	No	No	—
EmS / Special Provisions	E (tunnel)	F-A, S-B	Follow IATA requirements
Notes	Follow ADR requirements	Follow IMDG requirements	Follow IATA requirements

UN 2693 applies to aqueous solution form. Dry solid sodium bisulphite may not be regulated under ADR / IMDG / IATA — verify supplied form and concentration with the carrier before shipment. UN-certified packaging required for international transport. Label with Class 8 placard, UN number, PG III and product name.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Classified and labelled according to the GHS / CLP classification listed in Section 2. Observe REACH and CLP requirements where



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applicable. Not listed on SVHC Candidate List based on reviewed data; verify for current status.

OSHA (USA)	Prepared in OSHA HCS / HazCom 2012 aligned 16–section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable requirements under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, Factories Act, Environment Protection Act, Hazardous Waste Rules and applicable State Pollution Control Board notifications.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; bilingual SDS / label and ingredient disclosure may be required for Canadian sale. Australia AICS: check inventory status. China GB/T: apply applicable SDS and classification requirements where marketed. Final market placement requires confirmation of inventory status, local OELs, transport class, 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

- H302 — Harmful if swallowed
- H318 — Causes serious eye damage