



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 Metabisulphite *SDS*

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

CAS **7681-57-4** EC **231-673-0** SIGNAL WORD **ANGER**

GHS05

Corrosive / Eye Damage

GHS07

Harmful / Irritant

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

Product Name	Sodium Metabisulphite
Product Type	Reducing agent / preservative
Chemical Family	Inorganic metabisulphite
CAS No.	7681-57-4
EC No.	231-673-0
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-metabisulphite
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

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

GHS Classification Acute Toxicity (Oral) Category 4; Eye Damage Category 1



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Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive / Eye Damage) GHS07 (Harmful / Irritant)
Other GHS 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

- P233 — Keep container tightly closed.
- P260 — Do not breathe dust / vapours.
- 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.
- 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.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Sodium Metabisulphite	7681-57-4	231-673-0	100	Acute Tox. 4 (Oral); Eye Dam. 1 – H302, H318

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air immediately. If dust has been inhaled and symptoms persist (coughing, breathing difficulty), seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. 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 – causes serious eye damage.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Sulphite-sensitive individuals (e.g. asthmatics) may show exaggerated response.

SECTION 5 FIREFIGHTING MEASURES

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



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid dust generation. Wear appropriate PPE (see Section 8). Keep away from acids — contact releases sulphur dioxide gas.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Sodium metabisulphite can deplete dissolved oxygen in water bodies.
Containment / Clean-up	Sweep or vacuum (do not use compressed air) into labelled, tightly closed containers. Prevent dust formation. Collect material for disposal through 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 dry and away from acids and oxidisers. Contact with acids releases sulphur dioxide gas. Avoid dust generation; use enclosed systems or local exhaust ventilation.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, dry, well-ventilated area. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient (cool and dry). Avoid moisture and humidity.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens. Avoid contact with aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Metabisulphite (CAS 7681-57-4): No universal OEL established. Use ALARA / good industrial hygiene practice. Verify applicable OEL under OSHA, NIOSH, ACGIH, EU IOELV or India (Factory Rules) as relevant.
Engineering Controls	Use closed handling systems and local exhaust ventilation to control dust. Provide general dilution ventilation. Ensure eyewash station and safety shower are accessible.



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Respiratory Protection	Where dust is generated and ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 particulate filter. Use SCBA for emergencies.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select for breakthrough time and task duration. Eyes/Face: Chemical splash goggles (EN 166 / ANSI Z87.1); add face shield where splash risk exists. Body: Chemical-resistant clothing/apron and safety footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder.
Odour	Characteristic (faint sulphurous odour).
Odour Threshold	Not established.
pH	Acidic in aqueous solution (approx. 3.5–5.0 at 10% w/v).
Melting / Freezing Point	Approx. 150–170°C (decomposes; does not melt normally). [FLAG: confirm with supplier CoA]
Boiling Point / Range	Not applicable — decomposes before boiling.
Flash Point	Not applicable — non-flammable solid.
Auto-ignition Temperature	Not established.
Flammability Limits	Not applicable — non-flammable.
Vapour Pressure	Negligible at ambient temperature (solid).
Vapour Density (air = 1)	Not applicable (solid).
Relative Density	Approx. 1.48 g/cm ³ at 20°C. [FLAG: confirm with supplier CoA]
Solubility in Water	Soluble — approx. 540 g/L at 20°C.
Log Pow (Partition Coeff.)	Not established; not expected to bioaccumulate (ionic 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 (cool, dry, away from moisture and acids).
Conditions to Avoid	Moisture, humidity, heat above 150°C, contact with acids (releases SO ₂), and incompatible oxidising materials.



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Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride under elevated temperature.
Hazardous Decomposition	Thermal decomposition produces sulphur dioxide (SO ₂) and sulphur trioxide (SO ₃) – toxic, irritating gases. Carbon oxides not relevant for this inorganic compound.
Hazardous Reactions	Will not occur under normal conditions when stored and handled correctly. Contact with acids produces SO ₂ gas.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (H302 – Acute Tox. Cat. 4). Reported rat oral LD ₅₀ ≈66.7 mg/kg (data varies by source; confirm with supplier). Causes gastrointestinal irritation.
Acute Dermal Toxicity	Not classified. May cause mild irritation with prolonged contact. No LD ₅₀ identified from reviewed data.
Acute Inhalation Toxicity	Not classified. Dust or decomposition SO ₂ may irritate the respiratory tract. Asthmatics and sulphite-sensitive persons may show exaggerated bronchospasm. Avoid dust exposure.
Skin Irritation	Not classified as skin irritant under GHS from reviewed data. Prolonged or repeated contact may cause irritation; wash off promptly.
Eye Irritation	Causes serious eye damage (H318 – Eye Dam. Cat. 1). Immediate and thorough eye irrigation is essential.
Sensitisation	Not classified. However, sulphite-sensitive individuals (notably asthmatics) may react to ingestion or inhalation.
Carcinogenicity	Not classified. Not listed as carcinogen by IARC, NTP, OSHA or EU CLP based on reviewed data.
Mutagenicity	Not classified from reviewed data. No significant genotoxic hazard identified in standard assessments.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Not classified for aquatic hazard under GHS from reviewed data. However, sodium metabisulphite is a strong reducing agent that can deplete dissolved oxygen and is acutely toxic to aquatic organisms at elevated concentrations. Avoid release to water bodies.
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Persistence / Degradability	Inorganic salt; oxidises readily in water to sodium sulphate. Not considered persistent as a reducing agent.
Bioaccumulation	Not expected to bioaccumulate (ionic inorganic). Log Pow not applicable.
Mobility in Soil	Highly water-soluble; mobile in soil and groundwater. Prevent release to soil.
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 regulations. Dilute solutions may be neutralised prior to disposal; confirm with local authority.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed of through an approved contractor.
Indian Regulations	Follow applicable Indian hazardous waste rules (Hazardous and Other Wastes Management Rules, 2016), SPCB requirements and local pollution control directives.

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 applicable	Not applicable	Not applicable
Marine Pollutant	No	No	--

Sodium metabisulphite (dry solid) is not listed as a dangerous good under ADR, IMDG or IATA for standard commercial transport. DG classification requires grade verification against current ADR/IMDG/IATA criteria before shipment. If transported as aqueous solution (bisulphite solution), refer to UN 2693 classification. Verify with current carrier rules before each shipment. [FLAG: Source text incorrectly referenced 'Class 3 placard' and 'PG II' in the packaging note — these are erroneous for dry sodium metabisulphite; removed.]



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled per GHS/CLP classification listed in Section 2. Observe REACH and CLP requirements where applicable. Check ECHA SVHC candidate list for updates.
OSHA (USA)	Prepared in OSHA HCS/HazCom 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 Management Rules (2016), Factories Act / State Factory Rules OELs, and Pollution Control Board requirements.
Other Jurisdictions	Canada: Classify and label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. China: Use applicable GB/T SDS and classification requirements where marketed. Australia: Check AICS inventory status before import. GCC/Middle East: Observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, 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

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