



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Sodium Nitrite *SDS*

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

CAS 7632-00-0 EC 231-555-9 SIGNAL WORD **DANGER**

GHS03

Oxidizer

GHS06

Toxic

GHS09

Environmental Hazard

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

Product Name	Sodium Nitrite
Product Type	Oxidising/toxic salt
Chemical Family	Inorganic nitrite
CAS No.	7632-00-0
EC No.	231-555-9
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-nitrite
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Ox. Sol. 3; Acute Tox. 3 (oral); Aquatic Acute 1

Signal Word	DANGER
GHS Pictograms	GHS03 (Oxidizer) GHS06 (Toxic) GHS09 (Environmental Hazard)



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Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed source data.
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HAZARD STATEMENTS

- H272 — May intensify fire; oxidizer
 - H301 — Toxic if swallowed
 - H400 — Very toxic to aquatic life
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PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
 - 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 vapours or 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.
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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.
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- 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 Nitrite	7632-00-0	231-555-9	100	Ox. Sol. 3; Acute Tox. 3 (oral); Aquatic Acute 1 — H272, H301, H400

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If dust has been inhaled and symptoms (coughing, dizziness, shortness of breath) persist, seek medical attention immediately.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if 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 medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Immediately call a POISON CENTER or doctor. Sodium nitrite can cause methaemoglobinaemia.
Note to Physician	Sodium nitrite causes methaemoglobinaemia (converts haemoglobin to methaemoglobin, impairing oxygen transport). Antidote: methylene blue (1–2 mg/kg IV). Treat symptomatically based on exposure route and severity.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Use flooding quantities of water. Water spray or fog preferred; dry sand or dry chemical as secondary option.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Non-combustible but is a strong oxidizer that may intensify fires involving organic or other combustible materials. On heating above



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~320°C, decomposes to release toxic nitrogen oxides (NO_x) and sodium oxide fumes.

Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not use equipment that may concentrate or entrap dust/fumes.
Special Procedures	Evacuate non-essential personnel. Keep containers cool with water spray. Prevent contaminated fire-fighting run-off from entering drains, sewers and watercourses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid generating dust. Wear appropriate PPE (see Section 8). Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil, surface water and watercourses. Notify authorities if significant environmental release cannot be prevented.
Containment / Clean-up	Sweep or vacuum solid material into labelled, sealed containers. Avoid dust clouds. Flush residues with water to an authorised effluent treatment system. Do not flush to sewer without treatment.
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 away from combustibles, acids, reducing agents and organic materials. Ground/bond containers when transferring. Avoid generating dust. Do not handle near open flames, heat sources or ignition points.
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 material.
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 temperature (recommended ≤35°C); keep cool and away from heat sources.



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Incompatible Materials	Strong acids, reducing agents, combustible organics, ammonium salts, cyanides, metal powders. Avoid contamination. Reactive with ammonium compounds — risk of explosive decomposition.
Segregation	Segregate from food, drink, animal feed, combustibles and incompatible chemicals. Store locked up (P405).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Nitrite (CAS 7632-00-0): No universally adopted OEL; apply ALARA/good industrial hygiene. Verify current local OEL with OSHA/NIOSH/ACGIH/EU/India CPCB before work. Supplier/regional confirmation required.
Engineering Controls	Use closed handling systems or local exhaust ventilation (LEV) to control dust. General dilution ventilation where LEV is not practicable. Use explosion-proof ventilation equipment.
Respiratory Protection	Where dust concentration is above OEL or unknown, use NIOSH/EN-approved respirator with P95/P100 particulate filter. Use SCBA for emergencies or large spills.
Hand / Eye / Skin	Hands: compatible chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select for breakthrough time and task. Eyes/Face: EN 166/ANSI Z87.1 chemical splash goggles; face shield for splash risk. Body: chemical-resistant clothing/apron and safety footwear. Provide eyewash station and safety shower. Wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to slightly yellow crystalline solid (rhombic crystals).
Odour	Characteristic / practically odourless.
Odour Threshold	Not established.
pH	~9 (10% aqueous solution at 20°C). Not applicable to the pure solid form.
Melting / Freezing Point	~271°C (lit.)
Boiling Point / Range	~320°C (decomposes; does not boil conventionally).
Flash Point	Not applicable — inorganic oxidising solid; not flammable.
Auto-ignition Temperature	Not applicable — inorganic solid.
Flammability Limits	Not applicable — inorganic solid.
Vapour Pressure	Negligible at ambient temperature.



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Vapour Density (air = 1)	Not applicable (solid at ambient conditions).
Relative Density	~2.17 g/cm ³ at 20°C (lit.)
Solubility in Water	~820 g/L at 20°C — highly soluble.
Log Pow (Partition Coeff.)	Not applicable — inorganic salt; does not partition into organic phase.
Evaporation Rate	Not applicable — solid.
Viscosity	Not applicable — solid.
VOC Content	Zero — inorganic solid; not a VOC source.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above ~200°C, open flames, ignition sources, contamination with organic material, acids and reducing agents.
Incompatible Materials	Strong acids (decomposition to nitrous acid/NO _x), reducing agents, ammonium compounds (risk of explosive reaction), combustible organics, cyanides, metal powders, halogens.
Hazardous Decomposition	On decomposition/heating: nitrogen oxides (NO _x), sodium oxide. In fire: toxic and irritating fumes.
Hazardous Reactions	Contact with ammonium salts may form ammonium nitrite (explosive). Contact with strong acids releases toxic nitrous fumes. Will not occur under normal ambient storage/handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Toxic if swallowed (H301). LD50 (rat, oral): ~85 mg/kg (lit.). Causes methaemoglobinaemia — impairs oxygen transport of blood.
Acute Dermal Toxicity	Moderately irritating to skin on prolonged/repeated contact. Dermal LD50 not well established; handle with appropriate PPE.
Acute Inhalation Toxicity	Dust/aerosol inhalation may cause irritation of the respiratory tract, dizziness and methaemoglobinaemia. LC50 data not established from reviewed public sources.
Skin Irritation	May cause skin irritation on prolonged contact. Not classified as a primary skin irritant under GHS.
Eye Irritation	May cause eye irritation. Rinse immediately with water if contact occurs.
Sensitisation	No sensitisation data available from reviewed public sources.



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Carcinogenicity	IARC: sodium nitrite is classified in Group 2A (probably carcinogenic to humans) when ingested under conditions that lead to endogenous nitrosation. Confirm with supplier and current regulatory status.
Mutagenicity	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Numeric endpoint data requires supplier/test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Very toxic to aquatic life (H400; Aquatic Acute 1). Fish LC50 (96h): ~100 mg/L (literature reference; confirm with supplier). Prevent release to water bodies.
Persistence / Degradability	Sodium nitrite is an inorganic salt and not subject to conventional biodegradation. Can be oxidised to nitrate in the environment or reduced to ammonia under anaerobic conditions.
Bioaccumulation	Not expected to bioaccumulate. Log Pow not applicable for an inorganic salt.
Mobility in Soil	Highly water-soluble; mobile in soil and groundwater. May leach to groundwater. Prevent release to soil.
Other Adverse Effects	May contribute to eutrophication and oxygen depletion in water bodies if released in significant quantities. Avoid uncontrolled release to the environment. Manage 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 surface water without treatment.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until triple-rinsed or disposed of through an approved contractor. Rinse water should be treated as waste.
Indian Regulations	Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and applicable CPCB/SPCB requirements. Assign waste code per Schedule I/II of the Rules or applicable local regulation.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1500	UN 1500	UN 1500
Proper Shipping Name	SODIUM NITRITE	SODIUM NITRITE	Sodium nitrite
Class	5.1 (Oxidizing substance)	5.1	5.1
Packing Group	III	III	III
Marine Pollutant	Verify — likely Yes (aquatic hazard H400 present; confirm against current IMDG criteria)	Verify — likely N/A Yes	

ADR Tunnel Restriction: E. IMDG EmS: F-A, S-Q. Transport labelling must include Class 5.1 placard, UN 1500, PG III and product name. UN-certified packaging required for international transport. Verify current carrier rules (ADR 2025, IMDG Amendment 42-24, IATA DGR 65th ed.) before shipment. Marine pollutant status should be confirmed from current IMDG/supplier data.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to EU CLP Regulation (EC) No. 1272/2008 as listed in Section 2. Observe REACH requirements (Registration, Evaluation, Authorisation and Restriction of Chemicals) where applicable. Listed on ECHA C&L Inventory.
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 Indian regulations: MSIHC Rules 1989 (amended), Environment Protection Act 1986, Hazardous and Other Wastes Rules 2016, applicable CPCB/SPCB standards, and relevant BIS standards.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify/label using Section 2 classification; bilingual SDS/label may be required for Canadian sale. Australia AICS: check inventory status before import. China GB Standards: apply GB/T SDS and classification requirements where marketed. GCC/Middle East: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of local OELs, transport class, waste codes 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	24 June 2026
Version	3.0 (supersedes prior issues)
Key Sources	SPC product page; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem CID 33557; ECHA C&L Inventory; NIOSH/OSHA; CAMEO Chemicals; public supplier SDS references. Accessed June 2026.
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

- H272 — May intensify fire; oxidizer
- H301 — Toxic if swallowed
- H400 — Very toxic to aquatic life