

**SAFETY DATA SHEET (SDS)****Rev 1.0**

Prepared: April 2026

GHS compliant | Rev 1.0 | Prepared: April 2026

GHS03 Oxidizer	GHS06 Toxic	GHS09 Environmental Hazard
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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY**

<b>Product Name</b>	<b>Sodium Nitrite</b>
<b>Product Type</b>	Oxidising/toxic salt
<b>Chemical Family</b>	Inorganic nitrite
<b>CAS No. (Sodium Nitrite)</b>	7632-00-0
<b>CAS No. (Other Component)</b>	N/A
<b>Intended Use</b>	Industrial / professional use as listed on the SPC product page.
<b>Restrictions on Use</b>	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
<b>Manufacturer / Supplier</b>	Supreme Petro Chemicals
<b>Address</b>	Periyamet, Chennai - 600 003, Tamil Nadu, India
<b>Emergency Contact</b>	Sudarshan - 8197947045; Sanketh - 8608780096
<b>Email</b>	admin@supremepetrochemicals.com
<b>SDS Revision Date</b>	April 2026
<b>SDS Version</b>	1.0
<b>Product Page URL</b>	<a href="https://www.supremepetrochemicals.com/products/sodium-nitrate-nitrite">https://www.supremepetrochemicals.com/products/sodium-nitrate-nitrite</a>

**SECTION 2 HAZARD IDENTIFICATION**

<b>Ox. Sol. 3; Acute Tox. 3; Aquatic Acute 1</b>	
H272	H272: May intensify fire; oxidizer
H301	H301: Toxic if swallowed
H400	H400: Very toxic to aquatic life
<b>Other GHS hazard classes</b>	Not classified for unlisted hazard classes based on reviewed source data.
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<b>Signal Word</b>	DANGER
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GHS Pictograms	GHS03 (Oxidizer)   GHS06 (Toxic)   GHS09 (Environmental Hazard)
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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 Statements (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.

**Precautionary Statements (Response):**

- 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.

**Precautionary Statements (Storage & Disposal):**

- P403+P235 — Store in a well-ventilated place. Keep cool.
- 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 or concentration range	GHS Classification
Sodium Nitrite	7632-00-0	231-555-9	100	Ox. Sol. 3; Acute Tox. 3; Aquatic Acute 1

**Note:** Percentages are by volume. Full text of H-statements listed in Section 16.

**SECTION 4 FIRST AID MEASURES**

Inhalation	Move to fresh air if dust is inhaled. Rinse skin/eyes with water and seek medical attention if irritation persists.
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<b>Skin Contact</b>	Remove contaminated clothing. Wash affected skin thoroughly with water and soap where appropriate. Seek medical attention if symptoms persist.
<b>Eye Contact</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
<b>Note to Physician</b>	Treat symptomatically based on exposure route and product hazards.

## SECTION 5 FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use flooding water. Oxidizer; may intensify fire.
<b>Unsuitable Media</b>	Direct high-pressure water jet where it may spread the material.
<b>Specific Hazards</b>	Use flooding water. Oxidizer; may intensify fire.
<b>Fire &amp; Explosion Risk</b>	Dust or fine particulate may form combustible or irritating atmospheres depending on product. Avoid dust clouds and ignition sources. Containers may rupture when heated.
<b>Protective Equipment for Firefighters</b>	Wear full protective clothing and self-contained breathing apparatus (SCBA).
<b>Special Procedures</b>	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid dust generation. Sweep or vacuum into labelled containers and prevent release to drains.
<b>Environmental Precautions</b>	Prevent entry into drains, sewers, soil and watercourses.
<b>Containment Methods</b>	Avoid dust generation. Sweep or vacuum into labelled containers and prevent release to drains.
<b>Clean-up Methods</b>	Collect material into labelled containers for disposal through an approved waste contractor.
<b>Reference to Sections</b>	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

## SECTION 7 HANDLING AND STORAGE

<b>Handling Precautions</b>	Keep away from combustibles, acids and reducing agents. Store locked and dry.
<b>Hygiene</b>	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
<b>Storage Conditions</b>	Keep away from combustibles, acids and reducing agents. Store locked and dry.
<b>Storage Temperature</b>	Store at ambient temperature unless supplier instructions specify otherwise.
<b>Incompatible Materials</b>	Strong oxidizers and product-specific incompatible substances; see supplier SDS before use.
<b>Packaging</b>	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
<b>Segregation</b>	Segregate from food, drink, animal feed and incompatible chemicals.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION



Component	OEL (8h TWA)	STEL (15 min)	Standard	Notes
Sodium Nitrite	Use verified local OEL if established; otherwise ALARA/good industrial hygiene	Use verified local STEL/ceiling if established	OSHA/NIOSH/ACGI H/EU/UK/India	CAS 7632-00-0; supplier/regional OEL confirmation required.

Engineering Controls	Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies.
Hand Protection	Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.
Eye/Face Protection	Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.
Body Protection	Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.
Hygiene Measures	Provide eyewash and safety shower where appropriate. Wash after handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to slightly yellow crystalline solid.
Odour	Characteristic.
Odour Threshold	Not established.
pH	Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release.
Melting/Freezing Point	See supplier specification.
Boiling Point / Range	See supplier specification.
Flash Point	Not applicable or not available from reviewed public SDS data.
Auto-ignition Temperature	Not established.
Flammability Limits	Not established.
Vapour Pressure	Not established.
Vapour Density	Not established.
Relative Density	See supplier specification.
Solubility in Water	Soluble
Log Pow (Partition Coeff)	Not established for supplied commercial grade.
Evaporation Rate	Not established.
Viscosity	See supplier specification.
VOC Content	Assess under applicable local VOC rules.
Reactivity	Stable under recommended handling and storage conditions.

## SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
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<b>Conditions to Avoid</b>	Avoid heat, ignition sources, contamination and incompatible materials.
<b>Incompatible Materials</b>	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl <sub>3</sub> ) under elevated temperature — not a concern in ambient blending or storage.
<b>Hazardous Decomposition</b>	Carbon oxides and irritating or toxic fumes may be formed in fire.
<b>Hazardous Reactions</b>	No hazardous reactions under normal storage unless noted by product reactivity.
<b>Possibility of Hazardous React.</b>	Will not occur under normal conditions when stored and handled correctly.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity</b>	Toxic if swallowed; oxidizer; may affect blood oxygen transport.
<b>Acute Dermal Toxicity</b>	Toxic if swallowed; oxidizer; may affect blood oxygen transport.
<b>Acute Inhalation Toxicity</b>	Toxic if swallowed; oxidizer; may affect blood oxygen transport.
<b>Skin Irritation</b>	Toxic if swallowed; oxidizer; may affect blood oxygen transport.
<b>Eye Irritation</b>	Toxic if swallowed; oxidizer; may affect blood oxygen transport.
<b>Sensitisation</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Specific Target Organ (Single)</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Specific Target Organ (Repeat)</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Reproductive Toxicity</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Aspiration Hazard</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Carcinogenicity</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.
<b>Mutagenicity</b>	Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric endpoint data requires supplier/test confirmation.

## SECTION 12 ECOLOGICAL INFORMATION

<b>Aquatic Toxicity (Acute)</b>	Aquatic hazard is classified in Section 2. Prevent release; obtain LC50/EC50/NOEC values from supplier/ECHA/PubChem where required.
<b>Aquatic Toxicity (Chronic)</b>	Chronic aquatic hazard is classified or indicated in Section 2. Treat as environmentally hazardous unless verified otherwise.
<b>Persistence / Degradability</b>	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.
<b>Bioaccumulation</b>	Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data.
<b>Mobility in Soil</b>	Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater.
<b>Other Adverse Effects</b>	Avoid uncontrolled release to the environment.
<b>Environmental Regulations</b>	Manage releases and waste under applicable local environmental regulations.

## SECTION 13 DISPOSAL CONSIDERATIONS



<b>Waste from Product</b>	Dispose of contents through an authorized waste contractor in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers may retain residues; handle as hazardous until cleaned or disposed.
<b>European Waste Code</b>	Assign waste code according to actual process and local regulation.
<b>Indian Regulations</b>	Follow local hazardous waste and pollution control requirements.

## SECTION 14 TRANSPORT INFORMATION

Parameter	UN / ADR (Road)	IMDG (Sea)	IATA (Air)	Notes
<b>UN Number</b>	UN 1500	UN 1500	UN 1500	Oxidizing solid; toxic if swallowed
<b>Proper Shipping Name</b>	SODIUM NITRITE	SODIUM NITRITE	SODIUM NITRITE	
<b>Class</b>	5.1	5.1	5.1	Transport class
<b>Packing Group</b>	III	III	III	
<b>Marine Pollutant</b>	Verify / likely Yes if IMDG criteria met	Verify / likely Yes if IMDG criteria met	—	Aquatic hazard present; confirm marine pollutant status from IMDG/supplier data.
<b>Tunnel Restriction</b>	E	—	—	ADR
<b>EmS (Sea)</b>	—	F-A, S-Q	—	IMDG
<b>Special Provisions</b>	Follow applicable ADR requirements.	Follow applicable IMDG requirements.	Follow applicable IATA requirements.	Verify current carrier rules before shipment

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 1500, PG II, and product name.

## SECTION 15 REGULATORY INFORMATION

<b>EU / REACH</b>	Observe REACH and CLP requirements where applicable.
<b>EU CLP Regulation</b>	Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2.
<b>EU Directive</b>	Observe applicable workplace chemical, VOC and environmental requirements.
<b>OSHA (USA)</b>	Prepared in OSHA HCS/HazCom aligned 16-section SDS format.
<b>India</b>	Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements.
<b>China (GB Standards)</b>	Use applicable GB/T SDS and classification requirements where marketed.
<b>Middle East / GCC</b>	Observe applicable GHS-aligned local requirements.
<b>TSCA (USA)</b>	Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation.
<b>Australia (AICS)</b>	Check inventory status before export or import.
<b>Special Notes</b>	No product-specific special note beyond the classification in Section 2.
<b>Canada WHMIS / HPR</b>	Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure.
<b>Regulatory Scope Limitation</b>	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

**SECTION 16 OTHER INFORMATION****Full Text of H-Statements:**

- H272 - May intensify fire; oxidizer
- H301 - Toxic if swallowed
- H400 - Very toxic to aquatic life
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<b>Prepared By</b>	Supreme Petro Chemicals - Technical Department
<b>SDS Standard</b>	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR 16-section SDS format
<b>Revision Date</b>	22 April 2026
<b>Version</b>	1.0
<b>Replaces Version</b>	N/A - Initial Issue
<b>Key Sources</b>	SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 April 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed April 2026.
<b>Audit Correction Note</b>	Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.

**DISCLAIMER**

The information in this document is based on our present knowledge and is believed to be correct. It is provided in good faith. No warranty, express or implied, is made as to the accuracy or completeness. This SDS is prepared in accordance with UN GHS Rev.11 (2025). The user is responsible for 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.