

# Deepak Nitrite Limited

## Material Safety Data Sheet

## Sodium Nitrite

### 1 Product And Company Identification :

Product Name : **Sodium Nitrite**  
CAS No. : **7632-00-0**  
Supplier : Deepak Nitrite Ltd.  
National Games Road, Opposite Golf Course,  
Yerawada, Pune – 411 006. (India).  
Tel No. : +91 – 20 – 26689265  
Telefax : +91 – 20 – 26685448  
E – mail : [export@deepaknitrite.com](mailto:export@deepaknitrite.com)  
Emergency tel. No : +91 – 265 – 2840639, 2840640, 2840641

### 2 Composition / Information On Ingredients :

Hazardous components : Sodium Nitrite  
Synonyms : Nitrous acid, sodium salt  
Chemical formula :  $\text{NaNO}_2$   
Molecular weight : 69  
CAS No. : 7632-00-0  
UN No. : 1500  
EINECS No. : 231-555-9  
Hazard symbols : O – Oxidizing, T – Toxic  
Risk phrases : R - 25, 50, 8  
Safety phrases : S - 45, 61

### 3 Hazards Identification :

#### Potential Health Effects:

Toxic if swallowed. Contact with combustible material may cause fire.

Causes mild eye irritation. Causes redness and pain. May be absorbed through the skin. Absorption into the body may cause cyanosis. Poison by ingestion. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause vascular collapse and damage. May cause methemoglobinemia, cyanosis, convulsions, and death. May cause headache. Dust is irritating to the respiratory tract. Prolonged exposure may result in dizziness and general weakness. May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea, and death. Absorption into the body leads to the formation of methemoglobin, which in sufficient concentrations causes cyanosis.

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### 4 First Aid Measures :

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Induce vomiting by giving one teaspoon of syrup of Ipecac.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial **Respiration**. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Absorption of this product into the body may cause cyanosis. Moderate degrees of cyanosis need to be treated only by supportive measures such as bed rest and oxygen inhalation. Thorough cleansing of the entire contaminated area of the body is of utmost importance. If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg of body weight may be of value.

Antidote: None reported.

### 5 Fire Fighting Measures :

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Oxidizer. Greatly increases the burning rate of combustible materials.

**Extinguishing Media:** Use water spray to cool fire-exposed containers. Use water only!

### 6 Accidental Release Measures :

**General Information:** Use proper personal protective equipment as indicated in Sec.8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

Avoid generating dusty conditions.

### 7 Handling & Storage :

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

**Storage:** Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### 8 Exposure Control / Personal Protection :

Use adequate ventilation to keep airborne concentrations low.

#### Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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### 9 Physical And Chemical Properties :

Colour	: slightly yellow
Odour	: Odorless
pH	: Approximately 9.5 (1% solution)
Boiling Point/range	: 320 °C @ 760 mm Hg
Melting point	: 271 °C
Flash Point	: Not available.
Explosion properties	: Not available.
Density	: Not available.
Solubility	: 82 g/100 ml water (15 °C)

### 10 Stability And Reactivity :

**Chemical Stability :** Stable.

**Conditions to Avoid:** High temperatures, incompatible materials, exposure to air, combustible materials, organic materials, exposure to moist air or water.

**Incompatibilities with Other Materials:** Strong reducing agents, strong acids, amines, chlorates, finely powdered metals, hydrazine, liquid ammonia, amides (e.g. butyramide, diethyltoluamide, dimethyl formamide), cyanides (e.g. potassium cyanide, sodium cyanide), permanganates, hypophosphites, sulfites, tannic acid, carbon, antipyrine, sodium thiosulfate, ammonium salts, cellulose, acetanilide, iodides, mercury salts.

**Decomposition Products:** Oxides of nitrogen.

**Hazardous Polymerization:** Will not occur.

### 11 Toxicological Information :

Acute toxicity	: Not available
Irritation of the eyes	: Not available
Irritation of the skin	: Not available
RTECS#	: CAS# 7632-00-0: RA1225000, Inhalation, rat: LC50 5500 ug/m <sup>3</sup> ; Oral, mouse: LD50 = 175 mg/kg; Oral, rabbit: LD50 = 186 mg/kg; Oral, rat: LD50 = 85 mg/kg.
Carcinogenicity	: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Special properties	: See actual entry in RTECS for complete information.

### 12 Ecological Information :

Acute fish toxicity	Data not available
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### 13 Disposal Considerations :

Dispose of in a manner consistent with federal, state, and local regulations.

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### 14 Transport Information :

UN No. : UN1500                      Hazard Class : 5.1                      Packing Group : III  
Proper shipping name : Sodium Nitrite  
Declaration for land shipment : --  
Declaration for sea shipment : --  
Declaration for air shipment (IATA) : --  
Packing instruction, passenger : --  
Packing instruction, cargo : --

### 15 Regulatory Information :

Symbols : T, O  
Risk Phrases:  
R 25 Toxic if swallowed.  
R 8 Contact with combustible material may cause fire.  
Safety Phrases:  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

### 16 Other Information:

**DISCLAIMER** : Deepak Nitrite Ltd. provides the information contained herein in good faith but makes no representation as to comprehensiveness or accuracy. This document is only as a guide to a properly trained person, for the appropriate precautions and handling of the material. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. The data does not signify any warranty with regard to the product's properties.