

Material Safety Data Sheet (MSDS)

Product Name: Sodium Nitrite Technical Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Sodium Nitrite

Grade: Technical Grade

Chemical Name: Sodium Nitrite

CAS No.: 7632-00-0

Molecular Formula: NaNO_2

Molecular Weight: 69.00 g/mol

Recommended Use:

Industrial chemical, corrosion inhibitor, dye intermediate, laboratory reagent

2. Hazard Identification

Classification:

Oxidizing solid; Acute toxicity (oral); Environmental hazard

Hazard Statements:

- Harmful if swallowed
- Strong oxidizer; may intensify fire
- Toxic to aquatic life
- May cause irritation to skin, eyes, and respiratory tract

Precautionary Statements:

- Keep away from heat and combustible materials
- Avoid inhalation, ingestion, and skin contact
- Use protective equipment

3. Composition / Information on Ingredients

Sodium Nitrite is a single-component substance.

Chemical Name: Sodium Nitrite

CAS Number: 7632-00-0

Purity: Not less than 98%

No hazardous impurities are present in concentrations requiring disclosure.

4. First Aid Measures

Inhalation:

Move person to fresh air. If breathing difficulty occurs, seek medical attention.

Skin Contact:

Wash immediately with plenty of water and soap. Remove contaminated clothing.

Eye Contact:

Rinse cautiously with water for at least 15 minutes. Consult a physician.

Ingestion:

Do NOT induce vomiting. Rinse mouth and seek immediate medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media:

Water spray, dry chemical, foam

Specific Hazards:

Strong oxidizing agent; may accelerate combustion

Protective Equipment:

Firefighters should wear self-contained breathing apparatus (SCBA)

6. Accidental Release Measures

- Avoid dust formation
 - Use non-combustible absorbent material
 - Collect spilled material into suitable containers
 - Prevent release into drains and water bodies
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7. Handling and Storage**Handling:**

- Avoid contact with combustible materials
- Use adequate ventilation
- Avoid inhalation of dust

Storage:

- Store in a cool, dry, well-ventilated area
 - Keep container tightly closed
 - Keep away from acids, reducing agents, and organic materials
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8. Exposure Controls / Personal Protection**Exposure Limits:**

No specific occupational exposure limits established

Personal Protective Equipment (PPE):

- Safety goggles
 - Chemical-resistant gloves
 - Protective clothing
 - Dust mask or respirator if required
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9. Physical and Chemical Properties

- Appearance: White to pale yellow crystalline powder

- Odor: Odorless
- Solubility: Soluble in water
- pH (10% solution): 8–9
- Melting Point: ~271°C
- Density: ~2.17 g/cm³

10. Stability and Reactivity

Stability: Stable under normal conditions

Incompatible Materials:

Acids, reducing agents, ammonium salts, organic materials

Hazardous Decomposition Products:

Nitrogen oxides (NO_x)

11. Toxicological Information

- Harmful if swallowed
- Causes skin and eye irritation
- Inhalation may irritate respiratory tract
- Prolonged exposure may affect blood (methemoglobinemia)

12. Ecological Information

- Toxic to aquatic organisms
- May cause long-term adverse environmental effects
- Avoid environmental release

13. Disposal Considerations

Dispose of contents and container in accordance with local, regional, and national regulations.

Do not dispose into drains or water bodies.

14. Transport Information (DETAILED)

UN Number: UN 1500

Proper Shipping Name: Sodium Nitrite

Transport Hazard Class:

Class 5.1 – Oxidizing Substances

Packing Group:

Packing Group III

Labels Required:

Oxidizer label and hazard warning label

Marine Pollutant:

Yes, environmentally hazardous substance

Transport Regulations:

- ADR/RID (Road/Rail): UN 1500, Class 5.1, PG III
- IMDG (Sea): UN 1500, Class 5.1, PG III, Marine Pollutant
- IATA (Air): UN 1500, Class 5.1, PG III

Special Transport Precautions:

Keep away from combustible materials, protect from moisture and heat, ensure containers are tightly sealed, and transport only in approved packaging.

15. Regulatory Information

Subject to applicable chemical safety, occupational health, and environmental protection regulations. Classified as an oxidizing and hazardous substance under transport laws.

16. Other Information

Disclaimer:

The information contained in this MSDS is based on current knowledge and is intended as a guide for safe handling, storage, transport, and disposal. It does not constitute a warranty. Users must ensure compliance with all applicable regulations.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.