

Material Safety Data Sheet (MSDS)

Product Name: Sodium Nitrate Powder Food 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 Nitrate Powder – Food Grade

Chemical Name: Sodium Nitrate

CAS No.: 7631-99-4

Application: Food additive, curing agent, preservative, fertilizer, laboratory reagent.

2. Hazards Identification

- **Classification (GHS):**

- Oxidizing Solid (Category 3)
- Eye Irritation (Category 2A)

- **Hazard Statements:**

- H272: May intensify fire; oxidizer.
- H319: Causes serious eye irritation.

- **Precautionary Statements:**
 - Keep away from heat and combustible materials.
 - Wear protective gloves and eye protection.

3. Composition / Information on Ingredients

Substance: Sodium Nitrate

CAS Number: 7631-99-4

Purity: ≥ 99% (Food Grade)

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with water. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for several minutes. Seek medical help if irritation continues.

Ingestion: Rinse mouth; do not induce vomiting. Seek medical attention if unwell.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam.
 - **Unsuitable Media:** CO₂ or dry chemical (ineffective).
 - **Specific Hazards:** Strong oxidizer; intensifies fire.
 - **Protective Equipment:** Wear full protective clothing and SCBA.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up carefully and collect for disposal.
 - Ventilate area properly.
 - Avoid contact with combustible materials.
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7. Handling and Storage

- Store in a cool, dry, well-ventilated area.
- Keep away from heat, sparks, and organic materials.
- Wear protective gloves and goggles during handling.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use local exhaust ventilation.
- **Personal Protective Equipment:**
 - Respiratory: Dust mask
 - Eyes: Safety goggles
 - Hands: Chemical-resistant gloves
 - Skin: Protective clothing

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Soluble in water
- **Melting Point:** 308°C
- **Boiling Point:** Decomposes
- **Density:** 2.26 g/cm³
- **pH (5% solution):** 6–8

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Organic materials, reducing agents, sulfur, metal powders.
- **Hazardous Decomposition Products:** NO_x, sodium oxide.
- **Conditions to Avoid:** Heat, flame, sparks.

11. Toxicological Information

- **Acute Toxicity:** Low–moderate toxicity.
- **Inhalation:** May irritate respiratory tract.
- **Skin:** Non-irritating.
- **Eyes:** Irritating; may cause redness and pain.
- **Ingestion:** May cause nausea, vomiting, dizziness.

12. Ecological Information

- **Toxicity:** High concentrations may cause eutrophication.
- **Persistence:** Highly soluble and mobile in water.
- **Bioaccumulation:** Not expected.

13. Disposal Considerations

- Dispose of in accordance with local, state, and national regulations.
- Do not dispose into drains or natural water bodies.

14. Transport Information (DETAILED)

UN Number: UN 1498

Proper Shipping Name: Sodium Nitrate

Transport Hazard Class: 5.1 – Oxidizing Substance

Packing Group: III

Label Required: Oxidizer (5.1)

Marine Pollutant: No

Environmental Hazards: Not classified as environmentally hazardous under transport rules.

Transport by Road (ADR/RID):

- **Classification Code:** O2
- **Hazard Identification Number:** 50

- **Tunnel Restriction Code:** E
- **Special Provisions:** None

Transport by Sea (IMDG):

- **IMDG Class:** 5.1
- **EmS Code:** F-A, S-Q
- **Stowage:** Keep away from combustible and reducing materials.
- **Segregation:** Must be segregated from flammable solids, organic substances, and acids.

Air Transport (ICAO/IATA):

- **IATA Class:** 5.1
- **Passenger Aircraft:** Allowed with quantity limits
- **Cargo Aircraft:** Allowed
- **Packaging Instructions:** Follow oxidizer packaging rules.

General Transport Precautions:

- Keep container tightly closed.
- Protect from moisture and physical damage.
- Do not transport with flammables or organics.

15. Regulatory Information

- Classified as an oxidizing solid under GHS.
- Conforms to food-grade regulatory requirements where applicable.

16. Other Information

- Information is based on available data and is provided for guidance in safe handling and use.
- User must determine suitability for specific applications.

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