

Material Safety Data Sheet (MSDS)

Product Name: Sodium dihydrogen phosphate dihydrate BP 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

- **Chemical Name:** Sodium Dihydrogen Phosphate Dihydrate
- **Synonyms:** Monosodium Phosphate Dihydrate, Sodium Phosphate Monobasic Dihydrate
- **CAS Number:** 10049-21-5
- **BP Grade:** Complies with British Pharmacopoeia standards

2. Composition/Information on Ingredients

- Sodium Dihydrogen Phosphate Dihydrate (CAS: 10049-21-5), BP Grade, purity $\geq$ 99%

3. Hazards Identification

- **Classification:** Non-hazardous according to GHS for solids.
- **Health Hazards:** May cause eye and skin irritation upon contact; ingestion may cause gastrointestinal discomfort.

- **Environmental Hazards:** Not classified as environmentally hazardous; large quantities may affect water pH.
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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water; remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes; seek medical advice.
 - **Ingestion:** Rinse mouth; do not induce vomiting; seek medical attention.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, CO₂.
 - **Unsuitable Extinguishing Media:** None known.
 - **Special Hazards:** Decomposes on heating producing toxic fumes of phosphorus oxides.
 - **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; use PPE (gloves, mask, goggles).
 - **Environmental Precautions:** Prevent release into water bodies.
 - **Methods for Cleanup:** Sweep up and collect in suitable containers; avoid dust generation.
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7. Handling and Storage

- **Handling:** Avoid dust formation; handle in well-ventilated areas.
 - **Storage:** Store in a cool, dry place; keep container tightly closed.
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended.

- **Personal Protective Equipment:**
 - **Respiratory:** Dust mask if exposure limits exceeded.
 - **Hand:** Chemical-resistant gloves.
 - **Eye:** Safety goggles.
 - **Skin:** Protective clothing.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder or granules
 - **Odor:** Odorless
 - **pH (10% solution):** 4.5–5.5
 - **Solubility:** Soluble in water, insoluble in ethanol
 - **Melting Point:** 73–80 °C (dehydrates on heating)
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10. Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions.
 - **Conditions to Avoid:** Moisture, excessive heat, incompatible substances.
 - **Incompatible Materials:** Strong oxidizing agents, strong bases.
 - **Hazardous Decomposition Products:** Phosphorus oxides when heated to decomposition.
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity; LD50 (oral, rat) > 2 g/kg
 - **Skin/Eye Irritation:** May cause mild irritation
 - **Sensitization:** Not reported
 - **Chronic Effects:** None known
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12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic organisms at low concentrations
- **Persistence and Degradability:** Readily soluble; may affect water pH in large amounts
- **Bioaccumulation:** Low potential

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Do not release large amounts into waterways.
- Incineration or landfill in approved facilities recommended.

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Sodium Dihydrogen Phosphate Dihydrate
- **Transport Hazard Class:** Not classified as hazardous
- **Packing Group:** Not applicable
- **Transport Mode:**
 - **Road/Rail (ADR/RID):** Not restricted
 - **Air (IATA/ICAO):** Not restricted
 - **Sea (IMDG):** Not restricted
- **Precautions for Transport:**
 - Keep container tightly closed and dry.
 - Avoid contamination with moisture and incompatible substances.
 - Ensure secure stowage to prevent shifting during transport.
- **Special Transport Requirements:** No special transport requirements; standard handling procedures suffice.

15. Regulatory Information

- Complies with BP (British Pharmacopoeia) standards.

- Not classified as hazardous under GHS regulations.
- Follow local and national regulations for chemical handling and storage.

16. Other Information

- **Disclaimer:** The information provided in this MSDS is based on current knowledge and is intended to describe the product for safety purposes. It should not be construed as guaranteeing any specific property of the product.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.