

Material Safety Data Sheet (MSDS)

Product Name: Sodium Dihydrogen Phosphate Monohydrate Pure 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 Dihydrogen Phosphate Monohydrate
- **Grade:** Pure Grade
- **Chemical Name:** Monosodium Phosphate Monohydrate
- **CAS No.:** 10049-21-5
- **Molecular Formula:** $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$
- **Recommended Use:** Laboratory reagent, pharmaceutical, food, and industrial applications

2. Hazard Identification

- **Classification:** Not classified as hazardous under GHS
- **Hazard Description:** Mildly acidic substance; may cause irritation on prolonged exposure
- **Potential Health Effects:**

- **Eyes:** May cause irritation
- **Skin:** Slight irritation with prolonged contact
- **Inhalation:** Dust may cause respiratory discomfort
- **Ingestion:** May cause gastrointestinal irritation

3. Composition / Information on Ingredients

- **Substance:** Sodium Dihydrogen Phosphate Monohydrate
- **Purity:** ≥ 99%
- **CAS No.:** 10049-21-5

4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if symptoms persist
- **Skin Contact:** Wash with plenty of water
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes
- **Ingestion:** Rinse mouth with water; do not induce vomiting

5. Fire Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂
- **Hazards from Combustion:** May release phosphorus oxides
- **Protective Equipment:** Self-contained breathing apparatus

6. Accidental Release Measures

- Avoid dust formation
- Sweep up and collect in suitable containers
- Wash contaminated area with water
- Use personal protective equipment

7. Handling and Storage

- **Handling:** Handle in well-ventilated area; avoid inhalation of dust
- **Storage:** Store in a cool, dry place in tightly closed containers

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment (PPE):**
 - Safety goggles
 - Protective gloves
 - Dust mask if required

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH (1% solution):** Acidic (approx. 4.1–4.5)
- **Solubility:** Soluble in water
- **Melting Point:** Decomposes on heating

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture
- **Incompatible Materials:** Strong alkalis, strong oxidizing agents
- **Hazardous Decomposition Products:** Phosphorus oxides

11. Toxicological Information

- **Acute Toxicity:** Low toxicity

- **Skin/Eye Irritation:** Mild irritation possible
 - **Chronic Effects:** No known chronic effects under normal use
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12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful
 - **Persistence and Degradability:** Readily soluble in water
 - **Bioaccumulation:** Not expected
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
 - Small quantities may be diluted with water and disposed as per regulatory approval
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14. Transport Information (Detailed)

- **UN Number:** Not applicable
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Mode-wise Transport Details:

- **Road Transport (ADR/RID):** Not regulated as hazardous
- **Rail Transport:** Not classified as dangerous goods
- **Sea Transport (IMDG):** Not regulated; no special labeling required
- **Air Transport (IATA):** Non-hazardous; permitted for air shipment

Special Transport Precautions:

- Ensure packaging is tightly sealed to prevent moisture absorption
- Protect from contamination and physical damage during transit
- Transport in dry, clean containers

15. Regulatory Information

- Not classified as hazardous under GHS
- Complies with general chemical safety regulations
- Observe applicable local and international regulations

16. Other Information

- **Disclaimer:**

The information contained in this MSDS is believed to be accurate and reliable. Users must determine suitability for their 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.