

Material Safety Data Sheet (MSDS)

Product Name: Mono Sodium phosphate Monohydrate USP 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:** Mono Sodium Phosphate Monohydrate
- **Synonyms:** Sodium phosphate monobasic monohydrate, MSP
- **Chemical Formula:** $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$
- **Recommended Use:** Pharmaceutical excipient, buffer, laboratory reagent.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Physical Hazards:** None.
- **Health Hazards:** May cause irritation to eyes, skin, and respiratory tract if exposed in large amounts.
- **Environmental Hazards:** Not expected to be harmful in normal use.
- **Signal Word:** None required.
- **Hazard Statements:** Not hazardous under normal handling conditions.

3. Composition/Information on Ingredients

- **Substance:** Mono Sodium Phosphate Monohydrate
- **CAS Number:** 10049-21-5
- **EINECS Number:** 231-449-2
- **Purity:** USP Grade ($\geq 99\%$)

4. First Aid Measures

- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Inhalation:** Move to fresh air. If breathing difficulty occurs, seek medical help.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Get medical advice if feeling unwell.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or CO₂.
- **Special Hazards:** Not flammable.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep or vacuum without creating dust.
- Place material in suitable container for disposal.
- Ensure adequate ventilation.

7. Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Prevent dust formation.

- **Storage:** Store in a tightly closed container in a cool, dry, well-ventilated area. Protect from moisture.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Use local exhaust ventilation if dust is generated.
- **Personal Protection:**
 - Eye: Safety glasses
 - Skin: Protective gloves
 - Respiratory: Dust mask in dusty conditions

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Soluble in water
- **pH (1% solution):** 4.0 – 4.5
- **Melting Point:** 60 °C (loss of water of crystallization)
- **Molecular Weight:** 137.99 g/mol

10. Stability and Reactivity

- **Stability:** Stable under recommended conditions.
- **Conditions to Avoid:** Moisture, high temperature.
- **Incompatible Materials:** Strong bases, strong oxidizers.
- **Hazardous Decomposition Products:** Sodium oxides, phosphorus oxides under fire conditions.

11. Toxicological Information

- **Acute Toxicity (Oral, Rat):** LD₅₀ > 17,000 mg/kg (low toxicity).

- **Irritation:** Mild eye/skin irritant.
- **Sensitization:** Not expected to be a sensitizer.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Eco-toxicity:** Not expected to be hazardous to the environment.
- **Persistence/Degradability:** Inorganic compound, stable.
- **Mobility:** Soluble in water, may leach into soil and water.

13. Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations.
- Do not dispose into the environment.

14. Transport Information (Detailed)

- **UN Number:** Not regulated (Non-hazardous for transport).
- **UN Proper Shipping Name:** Not applicable.
- **Transport Hazard Class:** Not classified.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** Not environmentally hazardous.
- **Special Precautions for User:** Avoid moisture exposure during transport. Keep containers sealed and upright.
- **DOT (US):** Not regulated.
- **IMDG (Sea Transport):** Not regulated as dangerous goods.
- **IATA (Air Transport):** Not regulated as dangerous goods.
- **ADR/RID (Road/Rail Transport – EU):** Not classified as hazardous.
- **Transport in Bulk (MARPOL/IBC Code):** Not applicable, not transported in bulk.

15. Regulatory Information

- **USA (TSCA):** Listed
- **EU (REACH):** Listed
- **India:** Permitted for pharmaceutical and food applications.
- **Other Regulations:** No special restrictions.

16. Other Information

- This information is believed to be correct but does not claim to be all-inclusive.
- It should be used only as a guide for safe handling, use, processing, storage, transportation, and disposal.
- The company shall not be held liable for any damage resulting from handling or contact with 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.