

Material Safety Data Sheet (MSDS)

Product Name: Disodium Hydrogen Phosphate Anhydrous 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

- **Product Name:** Disodium Hydrogen Phosphate Anhydrous
- **Synonyms:** Sodium phosphate dibasic anhydrous, Disodium hydrogenorthophosphate
- **CAS No.:** 7558-79-4
- **Recommended Use:** Pharmaceutical and laboratory reagent (BP Grade).

2. Hazards Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Hazard Statements:** May cause mild irritation to eyes, skin, and respiratory tract.
- **Precautionary Statements:** Avoid dust inhalation; wear protective eyewear and gloves.
- **Emergency Overview:** Non-flammable white crystalline powder; low health hazard.

3. Composition/Information on Ingredients

- **Chemical Name:** Disodium Hydrogen Phosphate Anhydrous
 - **CAS No.:** 7558-79-4
 - **Purity:** ≥ 98% (BP Grade)
 - **Chemical Formula:** Na_2HPO_4
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4. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation occurs.
 - **Ingestion:** Rinse mouth and drink water. Do not induce vomiting unless directed by a physician.
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5. Firefighting Measures

- **Extinguishing Media:** Use media suitable for surrounding fire (water, foam, dry chemical, CO_2).
 - **Specific Hazards:** Non-flammable; may release oxides of phosphorus at high temperatures.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; use protective gear and ensure ventilation.
 - **Environmental Precautions:** Avoid release into watercourses.
 - **Cleanup Methods:** Sweep or vacuum without creating dust. Collect for disposal according to local regulations.
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7. Handling and Storage

- **Handling:** Avoid contact with eyes and skin. Prevent dust generation.

- **Storage:** Store in tightly closed containers in a cool, dry, and ventilated area. Protect from moisture and strong acids.

8. Exposure Controls/Personal Protection

- **Exposure Limits:** No established limits. Handle as nuisance dust.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protection:**
 - **Respiratory:** Use a dust mask if dust levels are high.
 - **Skin:** Wear gloves and protective clothing.
 - **Eye:** Use safety goggles.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH (1% solution):** 8.5 – 9.5
- **Melting Point:** Decomposes on heating
- **Solubility:** Soluble in water
- **Boiling Point:** Not applicable
- **Flash Point:** Not applicable
- **Density:** Approx. 2.53 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Moisture and strong heat.
- **Incompatible Materials:** Strong acids (forms phosphoric acid).
- **Decomposition Products:** Oxides of phosphorus and sodium compounds.

11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
- **Skin Irritation:** May cause mild irritation.
- **Eye Irritation:** May cause serious irritation.
- **Respiratory:** Dust may irritate throat and lungs.
- **Carcinogenicity/Mutagenicity:** Not classified as carcinogenic or mutagenic.
- **Chronic Effects:** None known.

12. Ecological Information

- **Ecotoxicity:** Not toxic to aquatic life at low concentrations. May cause eutrophication if large quantities enter water.
- **Persistence:** Inorganic salt; stable.
- **Mobility:** Highly soluble and mobile in water.
- **Bioaccumulative Potential:** None expected.

13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations.
- **Packaging:** Empty containers should be cleaned and reused or disposed of safely.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (Not classified as dangerous goods).
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not regulated
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not classified as a marine pollutant.
- **Special Precautions for User:**
 - Ensure containers are well-sealed and properly labeled.
 - Prevent leakage or dust generation during handling and transport.

- Avoid contact with strong acids or reactive chemicals.
 - Use moisture-proof packaging for the anhydrous form.
 - Ensure compliance with local transport regulations.
 - **Transport Categories:**
 - **ADR/RID (Road/Rail):** Not dangerous goods.
 - **IMDG (Sea):** Not dangerous goods.
 - **IATA (Air):** Not dangerous goods.
 - **Additional Notes:**
 - Product is safe for transport under normal conditions.
 - Maintain documentation (MSDS copy) with shipment.
 - Confirm local regulatory status for international transport.
 - Handle with care to avoid spillage or moisture absorption.
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15. Regulatory Information

- **Regulatory Status:** Not classified as hazardous.
 - **Chemical Safety Assessment:** Not required for non-hazardous substances.
 - **Other Regulations:** Complies with BP standards for pharmaceutical use.
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16. Other Information

- **Disclaimer:** The information provided in this MSDS is accurate to the best of our knowledge as of the revision date. It is intended only as a guide for safe handling, use, and disposal.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.