

Material Safety Data Sheet (MSDS)

Product Name: Mono Calcium Phosphate 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:** Mono Calcium Phosphate – Food Grade
- **Chemical Formula:** $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$
- **CAS No.:** 7758-23-8
- **EC No.:** 231-837-1
- **Recommended Use:** Food additive, leavening agent, mineral supplement.

2. Hazards Identification

- **GHS Classification:** Not classified as hazardous.
- **Hazard Statements:** Not considered hazardous under normal handling conditions.
- **Precautionary Statements:**
 - Avoid excessive inhalation of dust.
 - Use protective equipment to minimize contact.

- **Potential Health Effects:**
 - Eye Contact: May cause mild irritation.
 - Skin Contact: No significant irritation expected.
 - Inhalation: Dust may cause slight respiratory irritation.
 - Ingestion: Generally regarded as safe (GRAS) when used in food.
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3. Composition / Information on Ingredients

- **Substance Name:** Mono Calcium Phosphate
 - **Synonyms:** MCP, Calcium Dihydrogen Phosphate
 - **Purity:** Food Grade >98%
 - **Molecular Weight:** 234.05 g/mol
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes.
 - **Ingestion:** Rinse mouth with water; seek medical advice if large quantities are ingested.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water, CO₂, foam, or dry chemical.
 - **Special Hazards:** Non-flammable.
 - **Protective Equipment for Firefighters:** Wear protective clothing and self-contained breathing apparatus if involved in a fire with surrounding materials.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid creating dust, use PPE.
- **Environmental Precautions:** Prevent entry into drains.

- **Cleanup Methods:** Sweep or vacuum material and place in suitable container. Wash area with water.
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7. Handling and Storage

- **Handling:** Handle in accordance with good industrial hygiene. Avoid dust formation.
 - **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly closed.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
 - **Respiratory Protection:** Use dust mask if dust is generated.
 - **Hand Protection:** Gloves recommended.
 - **Eye Protection:** Safety glasses or goggles.
 - **Other Protection:** Normal protective clothing.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **pH (1% solution):** ~3.5 – 4.5
 - **Solubility:** Soluble in water
 - **Melting Point:** Decomposes above 200°C
 - **Density:** ~2.22 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Excessive heat and moisture.
- **Incompatible Materials:** Strong bases and oxidizing agents.
- **Hazardous Decomposition Products:** Phosphorus oxides, calcium oxides.

11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
- **Skin Irritation:** Not irritating.
- **Eye Irritation:** Mild irritation possible.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Mutagenicity / Teratogenicity:** No data indicating mutagenic effects.

12. Ecological Information

- **Ecotoxicity:** Low environmental impact.
- **Persistence and Degradability:** Inorganic compound, stable.
- **Bioaccumulation Potential:** Low.
- **Mobility in Soil:** Mobile in aqueous environments.

13. Disposal Considerations

- Dispose of according to local, state, and federal regulations.
- Can be disposed of as non-hazardous chemical waste.
- Avoid discharge into natural waters.

14. Transport Information (*Detailed Information*)

UN Number: Not regulated as hazardous material.

UN Proper Shipping Name: Mono Calcium Phosphate – Food Grade

Transport Hazard Class(es): Not classified as dangerous goods.

Packing Group: Not applicable

Environmental Hazards: Not environmentally hazardous.

Transport Labels Required: None

Special Precautions for User:

- Ensure packaging is secure to avoid spills.

- Prevent exposure to moisture during transit.
- Avoid transporting with incompatible materials (e.g., strong bases).

Additional Transport Information:

Mono Calcium Phosphate Food Grade is considered safe and stable for transport under normal conditions. Standard packaging (multi-wall bags, HDPE bags, or fiber drums) is acceptable. Ensure labeling complies with food safety and traceability standards.

15. Regulatory Information

- **US FDA:** GRAS (Generally Recognized as Safe) as a food additive.
 - **EU Regulation:** Listed as food additive E341(i).
 - **India FSSAI:** Permitted food additive.
 - Not classified as hazardous under GHS.
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16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and intended for guidance only. It does not guarantee specific properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.