

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Dihydrate IP 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:** Di Calcium Phosphate Dihydrate – IP Grade
- **Synonyms:** Calcium Hydrogen Phosphate Dihydrate
- **Molecular Formula:** $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$
- **Molecular Weight:** 172.09 g/mol
- **Intended Use:** Pharmaceutical, Nutraceutical, Food additive, Feed additive.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Label Elements:** Not required under GHS.
- **Hazard Statements:** Non-hazardous under normal handling conditions.
- **Precautionary Statements:** Avoid inhalation of dust; use protective equipment.

3. Composition/Information on Ingredients

- **Chemical Name:** Calcium Hydrogen Phosphate Dihydrate
 - **CAS No.:** 7789-77-7
 - **EINECS No.:** 231-826-1
 - **Purity:** ≥ 98%
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if irritation persists.
 - **Skin Contact:** Wash with soap and water. No adverse effects expected.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation continues.
 - **Ingestion:** Rinse mouth with water. Non-toxic, but seek medical advice in case of large ingestion.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, or CO₂.
 - **Fire/Explosion Hazards:** Non-combustible.
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation, wear mask and gloves.
 - **Environmental Precautions:** Prevent large amounts from entering drains.
 - **Methods for Cleaning:** Sweep up and place in a suitable container for disposal.
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7. Handling and Storage

- **Handling:** Avoid dust inhalation. Use PPE.
 - **Storage:** Store in tightly closed containers, in a cool and dry place.
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8. Exposure Controls/Personal Protection

- **Exposure Limit:** Not established.

- **Engineering Controls:** Ensure adequate ventilation.
 - **PPE:** Safety glasses, dust mask, gloves.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **Solubility:** Slightly soluble in water
 - **pH (10% suspension):** 6.5 – 7.5
 - **Melting Point:** Decomposes without melting
 - **Density:** ~2.3 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Incompatible Materials:** Strong acids.
 - **Hazardous Decomposition Products:** Calcium oxide, phosphorus oxides on extreme heating.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic, LD₅₀ (oral, rat) > 10,000 mg/kg.
 - **Skin/Eye Irritation:** Mild irritation possible.
 - **Carcinogenicity:** Not classified as carcinogenic.
 - **Chronic Effects:** No known adverse effects.
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12. Ecological Information

- **Eco-toxicity:** Not harmful to aquatic life in normal use.
- **Persistence/Degradability:** Inorganic substance; persists in soil/water.
- **Bioaccumulation:** Not expected.

13. Disposal Considerations

- Dispose of waste in accordance with local regulations.
- Non-hazardous waste; can be landfilled if permitted.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (not classified as dangerous goods).
- **UN Proper Shipping Name:** Not regulated.
- **Transport Hazard Class:** Not classified as hazardous.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None known.
- **Special Precautions for Transport:**
 - Avoid creating dust during loading/unloading.
 - Ensure containers are well-sealed to prevent spillage.
 - Transport in clean, dry, covered conditions.
- **ADR/RID (Road/Rail transport):** Not regulated.
- **IMDG (Maritime transport):** Not regulated.
- **IATA (Air transport):** Not regulated.

15. Regulatory Information

- **Regulatory Status:** Listed in pharmacopeias (IP, BP, USP, etc.) and food regulations.
- **Chemical Safety Assessment:** Not required for this product.

16. Other Information

The information provided in this MSDS is believed to be correct at the time of publication. It is intended as guidance only and does not constitute a guarantee of product performance.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024

- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.