

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Dihydrate Unmilled

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 Unmilled
 - **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:** Used in pharmaceuticals, food industry, animal feed, and nutraceutical applications.
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2. Hazards Identification

- **Classification:** Not classified as hazardous under GHS.
- **Hazard Statements:** Non-toxic, generally regarded as safe. May cause irritation if inhaled in excessive amounts.
- **Precautionary Statements:**
 - Avoid dust formation.

- Use with adequate ventilation.
- Wear suitable protective equipment.

3. Composition/Information on Ingredients

- **Chemical Name:** Di Calcium Phosphate Dihydrate (Unmilled)
- **CAS No.:** 7789-77-7
- **EC No.:** 231-826-1
- **Purity:** ≥ 98%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water.
- **Eye Contact:** Rinse thoroughly with water for several minutes.
- **Ingestion:** Rinse mouth, drink water. Seek medical attention if discomfort occurs.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, CO₂, dry chemical powder.
- **Special Hazards:** Non-flammable.
- **Protective Equipment:** Standard protective gear for surrounding fire.

6. Accidental Release Measures

- Avoid dust generation.
- Sweep up and collect in suitable container.
- Provide adequate ventilation.
- Prevent spillage into drains and watercourses.

7. Handling and Storage

- **Handling:** Avoid dust inhalation. Handle with care to prevent contamination.
 - **Storage:** Store in cool, dry, well-ventilated area. Keep container tightly closed.
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8. Exposure Controls/Personal Protection

- **Engineering Controls:** Use adequate ventilation.
 - **Personal Protective Equipment:**
 - Respiratory: Dust mask if dust is generated.
 - Eye Protection: Safety goggles.
 - Hand Protection: Protective gloves.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **pH (1% solution):** ~6.0–7.5
 - **Melting Point:** Decomposes before melting
 - **Solubility:** Slightly soluble in water
 - **Density:** ~2.31 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under recommended conditions.
 - **Conditions to Avoid:** Excess moisture, strong acids.
 - **Incompatible Materials:** Strong oxidizers, strong acids.
 - **Hazardous Decomposition Products:** None under normal conditions.
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11. Toxicological Information

- **Acute Toxicity:** Not toxic.
- **Irritation:** Dust may cause eye and respiratory irritation.

- **Carcinogenicity:** Not classified.
 - **Mutagenicity/Teratogenicity:** No data indicating hazard.
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12. Ecological Information

- **Eco-toxicity:** Non-toxic to aquatic and terrestrial organisms.
 - **Persistence/Degradability:** Inorganic compound, environmentally stable.
 - **Bioaccumulation:** Not expected.
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13. Disposal Considerations

- Dispose of in accordance with local, state, and federal regulations.
 - Avoid release to the environment.
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14. Transport Information (Detailed)

- **UN Number:** Not regulated (Non-hazardous for transport).
- **Proper Shipping Name:** Di Calcium Phosphate Dihydrate (Unmilled).
- **Transport Hazard Class:** Not classified as dangerous goods.
- **Packing Group:** Not applicable.
- **Labeling Requirements:** No special hazard label required.
- **Transport by Road (ADR/RID):** Not regulated.
- **Transport by Air (IATA):** Not regulated. Safe for air shipment.
- **Transport by Sea (IMDG):** Not regulated. No marine pollutant.
- **Special Precautions:**
 - Transport in clean, dry, well-sealed packaging.
 - Avoid moisture exposure during transport.
 - Protect from contamination with strong acids/alkalis.
- **Additional Information:** Product is considered safe for all modes of transport (road, rail, air, sea) under standard conditions.

15. Regulatory Information

- Complies with international standards (IP/BP/USP/FCC).
- Not classified as hazardous under OSHA, EU CLP, or GHS regulations.

16. Other Information

- This MSDS is prepared in compliance with GHS guidelines.
- **Disclaimer:** The information provided is believed to be accurate but does not constitute a guarantee. Users are responsible for ensuring suitability for intended use.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.