

Material Safety Data Sheet (MSDS)

Product Name: Di-basic Calcium Phosphate Dihydrate BP/USP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Manufacturer / Supplier:

SBF Pharma

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Di Calcium Phosphate Dihydrate BP/USP Grade
- **Use of the Substance:** Nutritional supplement, pharmaceutical excipient, feed additive, food fortification.
- **Supplier Details:** As above.

2. Hazard Identification

- **Classification:** Non-hazardous under GHS criteria.
- **Physical Hazards:** None known.
- **Health Hazards:** Low toxicity. Inhalation of dust may cause mild respiratory irritation.
- **Environmental Hazards:** Not expected to be hazardous to the environment.
- **Label Elements:** No hazard pictogram required.

3. Composition / Information on Ingredients

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

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water. No serious effects expected.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Non-toxic, but seek medical attention in case of discomfort.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Specific Hazards:** Material is non-flammable.
- **Protective Equipment:** Use standard protective equipment; self-contained breathing apparatus if large amounts involved.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use PPE.
- **Environmental Precautions:** Prevent uncontrolled release to drains.
- **Methods for Cleaning Up:** Sweep or vacuum without creating dust. Collect in containers for disposal.

7. Handling and Storage

- **Handling:** Avoid dust inhalation. Use with adequate ventilation.

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

8. Exposure Controls / Personal Protection

- **Exposure Limits:** No specific exposure limits established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protection:**
 - **Respiratory:** Dust mask if airborne dust is generated.
 - **Skin:** Protective gloves if prolonged handling.
 - **Eyes:** Safety glasses with side shields.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH (10% solution):** 6.5 – 7.5
- **Solubility in water:** Slightly soluble
- **Melting Point:** > 200 °C (decomposes)
- **Bulk Density:** ~ 0.5 – 0.8 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Reactivity:** Non-reactive under normal conditions.
- **Hazardous Decomposition:** Calcium oxide, phosphorus oxides at high temperatures.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 10,000 mg/kg (low toxicity).
- **Skin Irritation:** Non-irritant.
- **Eye Irritation:** Mild temporary irritation possible.

- **Carcinogenicity:** Not listed as carcinogenic.
 - **Mutagenicity / Reproductive Toxicity:** No data indicating hazard.
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12. Ecological Information

- **Ecotoxicity:** Non-toxic to aquatic life.
 - **Persistence and Degradability:** Inorganic, stable.
 - **Bioaccumulation Potential:** Not expected.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
 - Product is not hazardous waste.
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14. Transport Information (Detailed Section)

- **UN Number:** Not applicable (not classified as hazardous).
 - **Proper Shipping Name:** Not regulated – Di Calcium Phosphate Dihydrate.
 - **Transport Hazard Class:** Not applicable.
 - **Packing Group:** Not applicable.
 - **Environmental Hazards:** Not considered hazardous for the environment.
 - **Special Precautions for Transport:**
 - Ensure packaging is well-sealed to avoid spillage and dust generation.
 - Store away from strong acids to prevent reaction.
 - **Regulatory Transport Information:**
 - **ADR/RID (Road/Rail):** Not regulated.
 - **IMDG (Maritime):** Not regulated.
 - **IATA/ICAO (Air):** Not regulated.
 - **DOT (US Transport):** Not regulated.
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15. Regulatory Information

- Not classified as hazardous under EU CLP, OSHA, or GHS.
- Exempt from REACH registration when used as food additive or pharmaceutical excipient.

16. Other Information

- The information provided is believed to be accurate and reliable, but no warranty is expressed or implied. Users should ensure suitability for their specific applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.sbfpharma.com
- MSDS are based on the manufacturer's provided information.