

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Anhydrous Food 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 Anhydrous (Food Grade)
- **Chemical Formula:** CaHPO_4
- **Synonyms:** Calcium Hydrogen Phosphate, DCP Anhydrous
- **Intended Use:** Food additive, nutritional supplement, pharmaceutical excipient.

2. Hazards Identification

- **GHS Classification:** Not classified as hazardous.

- **Hazard Statements:** Not considered hazardous under normal handling and use.
 - **Precautionary Statements:** Avoid inhalation of dust; use in well-ventilated areas.
 - **Emergency Overview:** White, odorless powder/granules.
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3. Composition / Information on Ingredients

- **Chemical Name:** Di Calcium Phosphate Anhydrous
 - **CAS Number:** 7757-93-9
 - **EC Number:** 231-826-1
 - **Purity:** ≥ 98%
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4. First Aid Measures

- **Inhalation:** Move person to fresh air; seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse with plenty of water for at least 15 minutes; seek medical advice if irritation persists.
 - **Ingestion:** Non-toxic in small quantities; rinse mouth with water.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water, CO₂, foam, or dry chemical.
 - **Special Hazards:** Not combustible; may release calcium oxide and phosphorus oxides upon decomposition.
 - **Protective Equipment:** Firefighters should wear suitable protective gear.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up and collect in suitable container.
 - Wash spill area with water.
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7. Handling and Storage

- **Handling:** Avoid creating dust; use appropriate PPE.
 - **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
 - **Engineering Controls:** Provide adequate ventilation.
 - **Personal Protective Equipment (PPE):**
 - Respiratory: Dust mask if airborne dust is present.
 - Eyes: Safety glasses.
 - Skin: Gloves and protective clothing.
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9. Physical and Chemical Properties

- Appearance: White crystalline powder/granules
- Odor: Odorless
- Solubility: Slightly soluble in water
- pH (10% suspension): ~6.5 – 7.5
- Melting Point: > 200°C (decomposes)
- Bulk Density: 0.5 – 1.0 g/cm³

10. Stability and Reactivity

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

- **Acute Toxicity:** Non-toxic at typical exposure levels.
 - **Irritation:** May cause mild mechanical irritation to eyes and respiratory tract.
 - **Chronic Effects:** No known adverse chronic effects.
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12. Ecological Information

- **Environmental Impact:** Not harmful to the environment.
 - **Persistence/Degradability:** Inorganic compound, stable in nature.
 - **Bioaccumulation:** Not expected.
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13. Disposal Considerations

- Dispose of in accordance with local regulations.
 - Can be disposed of as non-hazardous solid waste.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable (Non-hazardous).

- **UN Proper Shipping Name:** Di Calcium Phosphate Anhydrous (Food Grade).
 - **Transport Hazard Class:** Not classified as dangerous for transport.
 - **Packing Group:** Not applicable.
 - **Label Requirements:** None required.
 - **Marine Pollutant:** No.
 - **Special Precautions for User:** Avoid generating dust during loading/unloading. Ensure packaging is secure to prevent spillage.
 - **Transport by Road (ADR/RID):** Not restricted.
 - **Transport by Air (IATA):** Not restricted.
 - **Transport by Sea (IMDG):** Not restricted.
 - **Inland Waterways (ADN):** Not restricted.
 - **Bulk Transport (MARPOL/IBC Code):** Not applicable as substance is non-hazardous.
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15. Regulatory Information

- **Regulation (EC) No 1272/2008 (CLP):** Not classified.
 - **OSHA Hazard Communication:** Not hazardous.
 - **Food Grade Approval:** Complies with IP/BP/USP/Food Grade standards as applicable.
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16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and experience. It does not constitute a legally binding assurance of product properties. Users must ensure suitability for intended use.
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