

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Anhydrous BP/USP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Di Calcium Phosphate Anhydrous BP/USP Grade
- **Chemical Name:** Calcium hydrogen phosphate anhydrous
- **Synonyms:** DCP Anhydrous, Calcium phosphate dibasic anhydrous
- **CAS No.:** 7757-93-9
- **EINECS No.:** 231-826-1
- **Intended Use:** Pharmaceutical excipient, Nutritional supplement, Food additive.

2. Hazards Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Physical Hazards:** None.
- **Health Hazards:** Low toxicity, may cause slight irritation to eyes, skin, or respiratory tract in dust form.

- **Environmental Hazards:** Not expected to pose significant environmental risks.
- **Signal Word:** Not applicable.
- **Pictogram:** Not required.

3. Composition / Information on Ingredients

- **Chemical Formula:** CaHPO_4
- **Molecular Weight:** 136.06 g/mol
- **Purity:** $\geq 98\%$
- **Grade:** BP/USP

4. First Aid Measures

- **Inhalation:** Remove to fresh air. If irritation persists, seek medical attention.
- **Skin Contact:** Wash with soap and water.
- **Eye Contact:** Rinse with plenty of water. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth, drink water. Not considered toxic in small quantities.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, CO_2 .
- **Specific Hazards:** Non-combustible. May release irritating fumes under high heat.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and place in suitable container for disposal.
- Ventilate area and wash spill site after material pickup.

7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Use adequate ventilation.
 - **Storage:** Store in tightly closed containers, in cool, dry, well-ventilated area. Protect from moisture and contamination.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
 - **Engineering Controls:** Local exhaust ventilation if dust is generated.
 - **Personal Protection:**
 - Respiratory Protection: Dust mask.
 - Eye Protection: Safety goggles.
 - Hand Protection: Protective gloves.
 - Clothing: Lab coat or protective work clothing.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **pH (10% solution):** 6.5 – 7.5
 - **Melting Point:** Decomposes > 200°C
 - **Solubility:** Practically insoluble in water, soluble in dilute acids
 - **Density:** ~2.9 g/cm³
 - **Stability:** Stable under normal conditions
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10. Stability and Reactivity

- **Stability:** Stable under recommended conditions.
- **Conditions to Avoid:** High humidity, extreme heat.
- **Incompatible Materials:** Strong acids.
- **Hazardous Decomposition:** Calcium oxide, phosphorus oxides under fire conditions.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 2000 mg/kg (low toxicity).
- **Skin/Eye Irritation:** Mild mechanical irritation possible.
- **Carcinogenicity:** Not classified.
- **Mutagenicity / Reproductive Toxicity:** No data indicating harmful effects.

12. Ecological Information

- **Eco-toxicity:** Not expected to be harmful.
- **Persistence and Degradability:** Inorganic compound, not biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Low mobility, insoluble in water.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Can be disposed as non-hazardous solid waste.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (Non-hazardous for transport).
- **UN Proper Shipping Name:** Not regulated for transport.
- **Transport Hazard Class(es):** Not applicable.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** Not classified as marine pollutant.
- **Special Precautions for User:** Avoid generating dust during handling and transfer. Ensure containers are sealed properly.
- **Transport in Bulk (per IBC Code):** Not intended for bulk transport.
- **Regulatory Information by Mode of Transport:**

- **ADR/RID (Road/Rail, Europe):** Not regulated.
- **IMDG (Sea):** Not regulated, not dangerous for sea transport.
- **IATA/ICAO (Air):** Not regulated, not dangerous for air transport.
- **DOT (USA):** Not regulated.
- **TDG (Canada):** Not regulated.

15. Regulatory Information

- **Regulatory Status:** Not classified as hazardous under GHS.
- **Applicable Regulations:** Complies with BP/USP standards for pharmaceutical and food use.

16. Other Information

- **Abbreviations:** ADR – European Road Transport; IMDG – International Maritime Dangerous Goods; IATA – International Air Transport Association.
- **Disclaimer:** The information provided is believed to be accurate and represents the best information currently available.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.