

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Anhydrous DC Granules IP/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 Granules
- **Synonyms:** Calcium hydrogen phosphate anhydrous
- **Grade:** IP/BP/USP, Direct Compression (DC)
- **Uses:** Pharmaceutical excipient, food additive, nutritional supplement, feed additive.

2. Hazards Identification

- **Classification:** Not classified as hazardous under GHS.
- **Primary Hazards:**
 - Dust may cause mild mechanical irritation to eyes and respiratory tract.
 - Non-flammable, non-explosive, non-toxic.
- **Routes of Exposure:** Inhalation, eye contact, ingestion (large amounts).
- **GHS Label Elements:**
 - **Signal Word:** None required.
 - **Hazard Statements:** Not hazardous under normal conditions of use.

3. Composition / Information on Ingredients

- **Chemical Name:** Calcium hydrogen phosphate anhydrous
- **Molecular Formula:** CaHPO_4
- **Molecular Weight:** 136.06 g/mol
- **CAS Number:** 7757-93-9
- **Content:** 100% (pharma/food grade).

4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical attention.
- **Eye Contact:** Rinse immediately with plenty of water. Seek medical help if irritation continues.
- **Skin Contact:** Wash with soap and water. No harmful effects expected.
- **Ingestion:** Rinse mouth. Non-toxic in normal quantities; seek medical advice if large amounts are ingested.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, CO_2 .
- **Fire Hazards:** Non-flammable.
- **Protective Equipment:** Firefighters should use protective clothing and self-contained breathing apparatus if decomposition fumes occur.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust generation, use dust mask if needed.
- **Environmental Precautions:** Non-hazardous; prevent large spillage into drains.
- **Cleanup Methods:** Sweep or vacuum. Collect in suitable container for reuse or disposal.

7. Handling and Storage

- **Handling:** Avoid dust formation. Use local exhaust ventilation if dusty.
- **Storage:** Store in tightly closed containers in a cool, dry, ventilated place. Protect from moisture and contaminants.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** No specific TLV established. Treat as nuisance dust (10 mg/m³).
- **Respiratory Protection:** Dust mask if airborne dust is generated.
- **Eye Protection:** Safety glasses recommended.
- **Skin Protection:** Normal work clothing.

9. Physical and Chemical Properties

- **Appearance:** White, free-flowing granules
- **Odor:** Odorless
- **pH (suspension):** ~6.5 – 7.5
- **Melting Point:** Decomposes > 800 °C
- **Solubility:** Practically insoluble in water; soluble in acids
- **Bulk Density:** 0.8 – 1.1 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Reactivity:** Non-reactive under normal use.
- **Incompatible Materials:** Strong acids, strong oxidizing agents.
- **Hazardous Decomposition Products:** Calcium oxide, phosphorus oxides on heating above decomposition point.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic (LD50 oral rat > 2000 mg/kg).
- **Irritation:** Dust may cause eye and respiratory irritation.
- **Chronic Effects:** No known effects with normal use.
- **Carcinogenicity/Mutagenicity:** Not classified as carcinogenic or mutagenic.

12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic or terrestrial life.
- **Persistence/Degradability:** Stable, non-biodegradable mineral.
- **Bioaccumulation:** Not bio accumulative.

13. Disposal Considerations

- **Product:** Dispose of in accordance with local regulations. Non-hazardous waste.
- **Packaging:** Recycle containers if possible, otherwise dispose as per local rules.

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not applicable (non-hazardous)
- **Transport Hazard Class:** Not classified as dangerous goods under ADR, RID, IMDG, ICAO/IATA.
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not classified as marine pollutant
- **Special Precautions for User:**
 - Avoid generating dust during transport.
 - Ensure containers are properly sealed and protected from moisture.
- **Transport in Bulk (Annex II MARPOL 73/78 & IBC Code):** Not applicable
- **Regulatory Transport Status:** Safe for air, sea, road, and rail transportation.
- **Additional Notes:** Product is stable and non-reactive during normal transport conditions.

15. Regulatory Information

- Complies with IP/BP/USP pharmacopeial standards.
- Not classified as hazardous under EU Regulation (EC) No. 1272/2008 [CLP].
- Not listed as hazardous under OSHA, TSCA, REACH.

16. Other Information

- **Training Advice:** Handle in accordance with good industrial hygiene practices.
- **Abbreviation Key:** ADR (European Road Transport), IMDG (International Maritime Dangerous Goods), IATA (International Air Transport Association).
- **Disclaimer:** Information is accurate to the best of our knowledge as of the revision date. The product should be used in accordance with intended applications and regulatory requirements.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.