

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Dihydrate 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 Dihydrate DC Granules Grade (IP/BP/USP)
- **Synonyms:** Calcium Hydrogen Phosphate Dihydrate, DCP Dihydrate
- **Recommended Use:** Pharmaceutical excipient, nutritional supplement, food additive
- **Company Identification:** As per details above.

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous under GHS criteria.
- **Hazard Statements:** Not a hazardous substance.
- **Precautionary Statements:** Avoid dust formation. Handle with standard hygiene practices.
- **Physical Hazards:** None under normal conditions.
- **Health Hazards:** Low toxicity; dust may cause mild respiratory irritation.

- **Environmental Hazards:** Not expected to pose significant hazard.
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3. Composition / Information on Ingredients

- **Chemical Name:** Di Calcium Phosphate Dihydrate
 - **CAS Number:** 7757-93-9
 - **Molecular Formula:** $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$
 - **Molecular Weight:** 172.09 g/mol
 - **Purity:** $\geq 98\%$ (Pharma/food grade compliance IP/BP/USP).
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4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with water. No significant irritation expected.
 - **Eye Contact:** Rinse with plenty of water. If irritation continues, seek medical help.
 - **Ingestion:** Safe in regulated amounts. For accidental overdose, seek medical advice.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water, CO_2 , foam, dry chemical.
 - **Special Hazards:** Non-combustible material.
 - **Protective Equipment:** Wear protective clothing and respiratory equipment in case of fire.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep up and collect in suitable container for disposal.
 - Wash area with water after collection.
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7. Handling and Storage

- **Handling:** Avoid dust generation. Use in well-ventilated area.

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

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Local exhaust ventilation recommended.
- **Personal Protection:**
 - Respiratory: Dust mask if dust generated.
 - Skin: Gloves recommended.
 - Eyes: Safety glasses.

9. Physical and Chemical Properties

- **Appearance:** White, free-flowing granules
- **Odor:** Odorless
- **pH (10% solution):** 6.0 – 7.5
- **Solubility:** Slightly soluble in water
- **Melting Point/Decomposition:** Loses water at ~100°C
- **Bulk Density:** 0.7 – 0.9 g/ml

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Reactivity:** Non-reactive with most substances.
- **Conditions to Avoid:** Excessive heat, moisture.
- **Incompatible Materials:** Strong acids may release phosphoric acid.
- **Hazardous Decomposition Products:** None significant.

11. Toxicological Information

- **Acute Toxicity:** Practically non-toxic.

- **Inhalation:** Dust may cause mild respiratory tract irritation.
- **Skin/Eyes:** May cause mild mechanical irritation.
- **Ingestion:** Safe in permitted levels; large doses may cause digestive discomfort.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Ecotoxicity:** Not toxic to aquatic or terrestrial life.
- **Persistence/Degradability:** Inorganic salt, stable in environment.
- **Bioaccumulation:** Not expected.
- **Mobility in Soil:** Low mobility.

13. Disposal Considerations

- Dispose according to local regulations.
- Can be disposed of as non-hazardous chemical waste.
- Avoid release into sewage or natural water systems.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous material).
- **UN Proper Shipping Name:** Not regulated for transport.
- **Transport Hazard Class:** Not classified.
- **Packing Group:** Not applicable.
- **Environmental Hazards:** None.
- **Special Precautions for User:**
 - Avoid generating dust during handling and transport.
 - Keep bags or containers tightly sealed to prevent contamination.
 - Handle with care to prevent moisture absorption which may affect flow properties.

- **Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code):** Not applicable.
- **Land Transport (ADR/RID):** Not regulated.
- **Sea Transport (IMDG):** Not regulated.
- **Air Transport (IATA/ICAO):** Not regulated.
- **Additional Information:**

Di Calcium Phosphate Dihydrate Granules are considered safe, non-flammable, and chemically stable during normal transportation conditions. It does not require special labeling, hazard warnings, or temperature control. Standard packaging in HDPE bags or fiber drums with liner is recommended.

15. Regulatory Information

- Complies with IP/BP/USP pharmacopeia standards.
- Not listed as hazardous under international chemical regulations.
- GRAS (Generally Recognized as Safe) status for food/pharma use.

16. Other Information

- Information provided is believed to be accurate but is given without warranty.
- Users are responsible for ensuring suitability for specific applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.