

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Anhydrous EP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
1101- City Centre 2,
Science City Road,
Sola Ahmedabad Gujarat,
India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and of the Company

Product Name: Di-Calcium Phosphate Anhydrous

Synonyms: DCP Anhydrous, Calcium Hydrogen Phosphate

Grade: EP Grade

Recommended Use: Pharmaceutical excipient, nutritional supplement, laboratory chemical.

2. Hazard Identification

- Not classified as hazardous according to GHS criteria.
- **Potential Health Effects:**
 - *Eye Contact:* May cause mild irritation.
 - *Skin Contact:* Non-irritant; prolonged contact may cause dryness.
 - *Inhalation:* Dust may cause temporary respiratory irritation.
 - *Ingestion:* Low toxicity; large doses may cause gastrointestinal discomfort.
- **Environmental Effects:** Non-hazardous; stable mineral compound.

3. Composition / Information on Ingredients

- **Chemical Name:** Di-Calcium Phosphate Anhydrous
- **Chemical Formula:** CaHPO_4
- **CAS Number:** 7757-93-9
- **Purity:** $\geq 98\%$ (EP Grade)

4. First-Aid Measures

- **Inhalation:** Move 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 10 minutes.
- **Ingestion:** Rinse mouth; drink water. Seek medical attention if symptoms occur.

5. Fire-Fighting Measures

- **Non-flammable.**
- Suitable extinguishing media: Water spray, dry chemical, CO_2 .
- Protective equipment: Standard firefighting gear; avoid dust inhalation.

6. Accidental Release Measures

- Avoid creating dust.
- Sweep or vacuum using equipment with dust control.
- Collect in labeled containers.
- Prevent spillage into drains.

7. Handling and Storage

- **Handling:** Avoid dust generation; use with good ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry place.
- **Incompatibilities:** Strong acids.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Respiratory:** Use dust mask if airborne dust is present.
- **Eyes:** Safety goggles recommended.
- **Hands:** Gloves optional.
- **Ventilation:** Normal room ventilation sufficient.

9. Physical and Chemical Properties

- **Appearance:** White, free-flowing powder
- **Odor:** Odorless
- **pH (10% solution):** ~7.0–8.0
- **Melting Point:** Decomposes
- **Bulk Density:** ~0.5–0.8 g/cm³
- **Solubility:** Slightly soluble in water
- **Stability:** Stable under normal storage

10. Stability and Reactivity

- **Chemical Stability:** Stable.
- **Hazardous Reactions:** None under normal conditions.
- **Incompatible Materials:** Strong acids may release phosphoric acid.
- **Decomposition Products:** Calcium oxide, phosphorus oxides.

11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
- **Skin Corrosion/Irritation:** Not expected.
- **Eye Irritation:** Mild mechanical irritation possible.

- **Carcinogenicity:** Not classified.
 - **Mutagenicity/Reproductive Toxicity:** No known effects.
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12. Ecological Information

- **Eco-toxicity:** Non-toxic to aquatic and terrestrial life.
 - **Persistence/Degradability:** Inorganic substance; does not degrade.
 - **Bioaccumulation:** Not expected.
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13. Disposal Considerations

- Dispose according to local regulations.
 - Non-hazardous material; may be landfilled.
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14. Transport Information (DETAILED)

UN Number: *Not applicable* – Non-hazardous, non-regulated.

UN Proper Shipping Name: *Not applicable*.

Transport Hazard Class: *Not classified as dangerous goods*.

Packing Group: *Not applicable*.

Label Requirements: None required.

Environmental Hazards: Not a marine pollutant.

Special Precautions for Transport:

- Transport in sealed containers to avoid moisture absorption and dust formation.
- Ensure bags or drums are stacked securely to prevent movement during transit.
- Avoid contamination with strong acids during transport.

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated.
- **IMDG (Sea):** Not regulated; safe for shipment by sea.
- **IATA (Air):** Not regulated; safe for air transport.
- **ICAO:** Not regulated.

*Di-Calcium Phosphate Anhydrous EP Grade is classified as **Non-Hazardous Cargo** for all modes of transport.*

15. Regulatory Information

- Not classified as hazardous under GHS.
 - Complies with major international pharmaceutical excipient guidelines.
 - No special regulatory restrictions.
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16. Other Information

This MSDS is based on available data and is believed to be accurate. It is intended for guidance on safe handling, storage, and use. Users must evaluate local conditions and regulations before use.

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