

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Dihydrate EP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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

Product Name: Di-Calcium Phosphate Dihydrate

Grade: EP Grade

Chemical Formula: $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$

CAS No.: 7789-77-7

Synonyms: Calcium Monohydrogen Phosphate Dihydrate, DCP Dihydrate

Recommended Use: Pharmaceutical formulations, nutraceuticals, mineral supplements, food additive, excipient.

2. Hazard Identification

- Not classified as hazardous under GHS.
- May cause mild eye or skin irritation with prolonged exposure.
- Inhalation of dust may cause temporary respiratory discomfort.

GHS Label Elements:

No symbol required.

3. Composition / Information on Ingredients

Chemical Name: Di-Calcium Phosphate Dihydrate

Purity: ≥ 98% (EP Standard)

CAS No.: 7789-77-7

EINECS: 231-826-1

4. First Aid Measures

Inhalation: Move to fresh air; rinse mouth; seek medical attention if discomfort persists.

Skin Contact: Wash with soap and water.

Eye Contact: Rinse with plenty of water for several minutes.

Ingestion: Non-toxic; rinse mouth; drink water. Seek medical advice if needed.

5. Fire Fighting Measures

- Non-flammable.
 - Use water spray, foam or CO₂ for surrounding fire.
 - No special firefighting equipment required.
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6. Accidental Release Measures

- Avoid dust formation.
 - Sweep or vacuum without generating dust.
 - Dispose of according to local regulations.
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7. Handling and Storage

Handling:

- Avoid dust inhalation.
- Use minimal dust-generating methods.

Storage:

- Store in a cool, dry area.

- Keep container tightly closed.
- Protect from moisture.

8. Exposure Controls / Personal Protection

Exposure Limits: Not established.

Respiratory Protection: Dust mask recommended if airborne particles present.

Eye Protection: Safety glasses.

Skin Protection: Gloves (optional).

9. Physical and Chemical Properties

- **Appearance:** White, crystalline powder
 - **Odor:** Odorless
 - **pH:** 6.5 – 7.5
 - **Solubility:** Slightly soluble in water
 - **Melting Point:** Not applicable (decomposes)
 - **Density:** 2.3 – 2.4 g/cm³
 - **Bulk Density:** 0.6 – 0.9 g/cm³
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10. Stability and Reactivity

- Stable under normal conditions.
 - Avoid moisture and strong acids.
 - Decomposition may release phosphorous oxides at extreme temperatures.
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11. Toxicological Information

- Low toxicity.
- May cause mild mechanical irritation to eyes or respiratory tract.
- Not a skin sensitizer.

12. Ecological Information

- Not considered harmful to the environment.
- Inorganic compound, slowly biodegradable.
- No bioaccumulation expected.

13. Disposal Considerations

- Dispose according to local environmental regulations.
- Not classified as hazardous waste.

14. Transport Information (DETAILED)

UN Number: Not applicable (non-hazardous).

UN Proper Shipping Name: Not regulated for transport.

Transport Hazard Class: Not classified.

Packing Group: Not applicable.

Environmental Hazards: Not a marine pollutant.

Special Precautions for Transport:

- Keep packaged to prevent moisture absorption.
- Avoid tearing of bags to reduce dust emissions.

Transport Mode Specific Information

Road Transport (ADR/RID):

- Not regulated; no special labeling required.
- Transport in clean, sealed bags or containers.

Sea Transport (IMDG):

- Not classified as Dangerous Goods.
- No IMDG hazard class or packing instructions required.
- Keep away from moisture during marine shipment.

Air Transport (IATA):

- Not regulated under IATA Dangerous Goods Regulations.
- Can be shipped as general cargo.

Additional Notes:

- Material is stable during transport.
- Ensure cargo is protected from contamination, humidity, and mechanical damage.
- No segregation restrictions.

15. Regulatory Information

- Not listed as a hazardous chemical under major international regulations.
- Complies with EP Grade specifications.
- Not a controlled substance.

16. Other Information

Disclaimer:

Information is accurate to the best of current knowledge. No warranty is expressed or implied.
The user is responsible for safe handling and compliance with local regulations.

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