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**CIN:** U24230GJ2011PTC064654

# Material Safety Data Sheet (MSDS)

**Product Name:** Di Calcium Phosphate Dihydrate EP Grade

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## **Manufacturer / Supplier:**

SBF Pharma

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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.

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## **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.*

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**3. Composition / Information on Ingredients**

**Chemical Name:** Di-Calcium Phosphate Dihydrate

**Purity:** ≥ 98% (EP Standard)

**CAS No.:** 7789-77-7

**EINECS:** 231-826-1

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**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.

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**5. Fire Fighting Measures**

- Non-flammable.
  - Use water spray, foam or CO<sub>2</sub> 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.

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## 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).

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## 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/cm<sup>3</sup>
  - **Bulk Density:** 0.6 – 0.9 g/cm<sup>3</sup>
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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.

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## 12. Ecological Information

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

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## 13. Disposal Considerations

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

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## 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.

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## **15. Regulatory Information**

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

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## **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.sbfpharma.com](http://www.sbfpharma.com)
- MSDS are based on the manufacturer's provided information.