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CIN: U24230GJ2011PTC064654

Material Safety Data Sheet (MSDS)

Product Name: Di-basic Calcium Phosphate Dihydrate IP 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 Company

- **Product Name:** Di-basic Calcium Phosphate Dihydrate – IP Grade
- **Synonyms:** Calcium Hydrogen Phosphate Dihydrate
- **Molecular Formula:** $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$
- **Molecular Weight:** 172.09 g/mol
- **Intended Use:** Pharmaceutical, Nutraceutical, Food additive, Feed additive.

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Label Elements:** Not required under GHS.
- **Hazard Statements:** Non-hazardous under normal handling conditions.
- **Precautionary Statements:** Avoid inhalation of dust; use protective equipment.

3. Composition/Information on Ingredients

- **Chemical Name:** Calcium Hydrogen Phosphate Dihydrate
- **CAS No.:** 7789-77-7
- **EINECS No.:** 231-826-1
- **Purity:** ≥ 98%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water. No adverse effects expected.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation continues.
- **Ingestion:** Rinse mouth with water. Non-toxic, but seek medical advice in case of large ingestion.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, or CO₂.
- **Fire/Explosion Hazards:** Non-combustible.
- **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation, wear mask and gloves.
- **Environmental Precautions:** Prevent large amounts from entering drains.
- **Methods for Cleaning:** Sweep up and place in a suitable container for disposal.

7. Handling and Storage

- **Handling:** Avoid dust inhalation. Use PPE.
- **Storage:** Store in tightly closed containers, in a cool and dry place.

8. Exposure Controls/Personal Protection

- **Exposure Limit:** Not established.
- **Engineering Controls:** Ensure adequate ventilation.
- **PPE:** Safety glasses, dust mask, gloves.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Slightly soluble in water
- **pH (10% suspension):** 6.5 – 7.5
- **Melting Point:** Decomposes without melting
- **Density:** ~2.3 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong acids.
- **Hazardous Decomposition Products:** Calcium oxide, phosphorus oxides on extreme heating.

11. Toxicological Information

- **Acute Toxicity:** Non-toxic, LD₅₀ (oral, rat) > 10,000 mg/kg.
- **Skin/Eye Irritation:** Mild irritation possible.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Chronic Effects:** No known adverse effects.

12. Ecological Information

- **Eco-toxicity:** Not harmful to aquatic life in normal use.

- **Persistence/Degradability:** Inorganic substance; persists in soil/water.
 - **Bioaccumulation:** Not expected.
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13. Disposal Considerations

- Dispose of waste in accordance with local regulations.
 - Non-hazardous waste; can be landfilled if permitted.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable (not classified as dangerous goods).
 - **UN Proper Shipping Name:** Not regulated.
 - **Transport Hazard Class:** Not classified as hazardous.
 - **Packing Group:** Not applicable.
 - **Environmental Hazards:** None known.
 - **Special Precautions for Transport:**
 - Avoid creating dust during loading/unloading.
 - Ensure containers are well-sealed to prevent spillage.
 - Transport in clean, dry, covered conditions.
 - **ADR/RID (Road/Rail transport):** Not regulated.
 - **IMDG (Maritime transport):** Not regulated.
 - **IATA (Air transport):** Not regulated.
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15. Regulatory Information

- **Regulatory Status:** Listed in pharmacopeias (IP, BP, USP, etc.) and food regulations.
 - **Chemical Safety Assessment:** Not required for this product.
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16. Other Information

The information provided in this MSDS is believed to be correct at the time of publication. It is intended as guidance only and does not constitute a guarantee of product performance.

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