

Material Safety Data Sheet (MSDS)

Product Name: Di Calcium Phosphate Dihydrate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Di Calcium Phosphate Dihydrate (Food Grade)

Chemical Name: Calcium Phosphate Dibasic Dihydrate

Synonyms: DCP Dihydrate, Dibasic Calcium Phosphate Dihydrate

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

CAS No.: 7789-77-7

Recommended Use: Food additive, nutritional supplement, mineral fortification

2. Hazards Identification

GHS Classification: Not classified as hazardous under GHS.

Hazard Nature:

Low toxicity material

Dust may cause mild irritation to eyes and respiratory tract

Label Elements:

No hazard pictogram required

Avoid excessive dust formation

3. Composition / Information on Ingredients

Substance Name: Calcium Phosphate Dibasic Dihydrate

CAS No.: 7789-77-7

Purity: $\geq 98\%$

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

Molecular Weight: 172.09 g/mol

No hazardous impurities present as per food grade specification.

4. First Aid Measures

Inhalation: Move person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with soap and water.

Eye Contact: Rinse immediately with clean water for at least 15 minutes.

Ingestion: Rinse mouth with water. If large quantity ingested, seek medical advice.

5. Fire Fighting Measures

Flammability: Non-flammable

Suitable Extinguishing Media: Water spray, foam, dry chemical, CO_2

Hazardous Combustion Products: May release phosphorus oxides at very high temperatures

Protective Equipment: Standard fire-fighting protective equipment

6. Accidental Release Measures

Avoid dust generation

Use suitable protective equipment

Sweep or vacuum and collect in suitable container

Avoid discharge into drains in large quantities

7. Handling and Storage

Handling:

Avoid breathing dust

Use appropriate ventilation

Maintain good industrial hygiene

Storage:

Store in cool, dry, well-ventilated area

Protect from moisture

Keep container tightly closed

8. Exposure Controls / Personal Protection

Exposure Limits: Not specifically established

Engineering Controls: Local exhaust ventilation recommended

Personal Protective Equipment (PPE):

Dust mask (if dust generated)

Safety glasses

Protective gloves

9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Odorless

pH (1% solution): 6.5 – 7.5

Solubility: Slightly soluble in water

Molecular Weight: 172.09 g/mol

Density: Approx. 2.3 g/cm³

Melting Point: Decomposes on heating

10. Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Excess moisture, extreme heat

Incompatible Materials: Strong acids

Hazardous Decomposition Products: Phosphorus oxides (on strong heating)

11. Toxicological Information

Acute Toxicity: Low toxicity

Skin Irritation: May cause mild irritation

Eye Irritation: Dust may cause irritation

Chronic Effects: No known significant effects

12. Ecological Information

Not expected to be environmentally hazardous

Large releases may affect water phosphate levels

Low bioaccumulation potential

13. Disposal Considerations

Dispose in accordance with local regulations

Non-hazardous waste

Avoid large-scale release into water bodies

14. Transport Information (Detailed)

UN Number: Not regulated

UN Proper Shipping Name: Not applicable

Transport Hazard Class: Not classified as dangerous goods

Packing Group: Not applicable

Environmental Hazard: No

Transport by Road (ADR/RID):

Not classified as hazardous material

No special transport labeling required

Transport in clean, dry, sealed bags

Transport by Sea (IMDG):

Not classified as dangerous goods under IMDG Code

No marine pollutant classification

Protect from moisture during shipment

Transport by Air (IATA):

Not classified as dangerous goods

No special packaging requirements

Special Precautions:

Avoid moisture exposure

Prevent dust generation during loading/unloading

Ensure packaging integrity during transit

15. Regulatory Information

Food Grade material

Complies with applicable food safety standards (as per supplier specification)

Not classified as hazardous chemical under GHS

16. Other Information

The information provided in this MSDS is believed to be accurate and represents the best information currently available. However, no warranty, expressed or implied, is made regarding its accuracy or completeness. Users are responsible for ensuring safe handling and compliance with local regulations.

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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.