

Material Safety Data Sheet (MSDS)

Product Name: Calcium Propionate Feed 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: Calcium Propionate

Synonyms: Calcium dipropionate, Propanoic acid calcium salt

Chemical Formula: $C_6H_{10}CaO_4$

CAS No.: 4075-81-4

Recommended Use: Preservative and mold inhibitor in animal feed.

Restrictions on Use: Not intended for pharmaceutical or cosmetic use.

2. Hazards Identification

Classification (GHS): Not classified as hazardous under normal use.

Hazard Statements: May cause mild irritation to eyes, skin, and respiratory tract.

Precautionary Statements:

- Avoid inhalation of dust.

- Wash hands thoroughly after handling.
- Use with adequate ventilation.

Emergency Overview: White crystalline powder, odorless or faint odor, non-combustible.

3. Composition / Information on Ingredients

Chemical Name: Calcium Propionate

CAS Number: 4075-81-4

Purity: ≥99%

Molecular Weight: 186.22 g/mol

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Rinse thoroughly with water for several minutes. Get medical attention if irritation continues.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice if large amounts are ingested.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, foam, CO₂.

Unsuitable Media: None known.

Special Hazards: May release carbon oxides under fire conditions.

Protective Equipment: Use self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation and inhalation. Wear mask and gloves.

Environmental Precautions: Prevent entry into drains and watercourses.

Cleanup Method: Sweep up and place in a labeled, sealed container for proper disposal.

7. Handling and Storage

Handling: Avoid contact with eyes and skin. Use adequate ventilation.

Storage: Store in a cool, dry, well-ventilated area. Keep container tightly closed.

Incompatibility: Avoid strong acids and oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limits: Not established.

Engineering Controls: Provide local exhaust ventilation.

Personal Protective Equipment:

- **Respiratory:** Dust mask recommended.
 - **Skin:** Protective gloves.
 - **Eyes:** Safety goggles.
 - **Other:** Lab coat or protective clothing.
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9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Faint propionic acid odor

pH (10% solution): 7 – 9

Melting Point: 300°C (decomposes)

Solubility: Soluble in water

Density: Approx. 1.59 g/cm³

Boiling Point: Not applicable

Flash Point: Not applicable

10. Stability and Reactivity

Stability: Stable under normal storage conditions.

Conditions to Avoid: Heat, moisture, and strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides.

Polymerization: Will not occur.

11. Toxicological Information

Acute Toxicity:

- Oral LD50 (rat): > 5000 mg/kg (low toxicity)
Irritation: Mild eye and skin irritation possible.
Sensitization: Not expected to cause sensitization.
Chronic Effects: No known significant effects.

12. Ecological Information

Ecotoxicity: Not classified as environmentally hazardous.

Persistence & Degradability: Biodegradable.

Bioaccumulation: Low potential.

Mobility: Readily soluble in water.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Avoid disposal in drains. Reuse or recycle when possible.

14. Transport Information (Detailed)

UN Number: Not regulated.

UN Proper Shipping Name: Calcium Propionate

Transport Hazard Class(es): Not applicable (Non-hazardous)

Packing Group: Not applicable

Environmental Hazards: Not classified as marine pollutant.

Special Precautions for User:

- Ensure packaging is properly sealed to prevent moisture absorption.
- Avoid generating dust during loading/unloading.
- Use clean, dry containers.
- Transport under dry, ventilated conditions.

Mode of Transport Guidance:

- **Road/Rail (ADR/RID):** Not restricted.
- **Sea (IMDG):** Not regulated as dangerous goods.

- **Air (IATA):** Not regulated as dangerous goods.
Bulk Transport (Annex II of MARPOL / IBC Code): Not applicable.
Transport in Non-Bulk Form: Use HDPE or laminated bags, properly labeled and secured to prevent leakage.

15. Regulatory Information

Regulation Compliance:

- Not classified as hazardous under GHS, REACH, or OSHA regulations.
- Permitted as a preservative in feed applications (as per BIS/FDA feed safety standards).

16. Other Information

Disclaimer: The information provided in this MSDS is believed to be accurate and reliable.

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