

Material Safety Data Sheet (MSDS)

Product Name: Calcium Propionate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Product Identification

- **Chemical Name:** Calcium Propionate
- **Synonyms:** Calcium salt of propionic acid
- **CAS Number:** 4075-81-4
- **EC Number:** 223-907-3
- **Food Additive Code:** E282
- **Recommended Use:** Food preservative, anti-fungal agent in bakery and dairy products.

2. Composition / Information on Ingredients

- **Chemical Formula:** $C_6H_{10}CaO_4$
- **Purity:** $\geq 99\%$ (Food Grade)
- **Hazardous Components:** None under normal food-grade usage.

3. Hazards Identification

- **Emergency Overview:** White crystalline powder. Non-flammable and non-explosive.
 - **Potential Health Effects:**
 - **Ingestion:** May cause mild gastrointestinal discomfort in sensitive individuals.
 - **Skin Contact:** Non-irritant in most cases.
 - **Eye Contact:** Dust may cause temporary irritation.
 - **Inhalation:** Dust may cause minor respiratory irritation.
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.
 - **Ingestion:** Drink water. Do not induce vomiting. Seek medical advice if symptoms persist.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, carbon dioxide (CO₂), foam.
 - **Unsuitable Extinguishing Media:** None known.
 - **Special Hazards:** Emits carbon oxides on combustion.
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of dust. Wear protective gloves and mask.
 - **Environmental Precautions:** Prevent entry into water bodies.
 - **Methods for Cleaning:** Sweep up and place in suitable container for disposal. Wash contaminated area with water.
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7. Handling and Storage

- **Handling:** Avoid dust formation. Use personal protective equipment.
 - **Storage:** Store in a cool, dry, ventilated area. Keep container tightly closed. Protect from moisture and sunlight.
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established for food-grade use.
 - **Engineering Controls:** Adequate ventilation.
 - **Personal Protective Equipment:** Gloves, dust mask, safety goggles.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Slight characteristic odor
 - **pH:** 6.0 – 8.0 (5% aqueous solution)
 - **Melting Point:** 300°C (decomposes)
 - **Solubility:** Soluble in water, insoluble in alcohol and organic solvents
 - **Density:** 1.5 g/cm³
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Moisture, high temperature, strong acids.
 - **Incompatible Materials:** Strong oxidizers, strong acids.
 - **Hazardous Decomposition Products:** Carbon oxides when heated to decomposition.
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
- **Chronic Toxicity:** No known chronic effects at food-use concentrations.
- **Carcinogenicity:** Not classified as carcinogenic.

- **Mutagenicity / Teratogenicity:** No data available.
 - **Routes of Exposure:** Inhalation, ingestion, skin contact.
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12. Ecological Information

- **Persistence and Degradability:** Biodegradable
 - **Bioaccumulative Potential:** Low potential
 - **Ecotoxicity:** Practically non-toxic to aquatic life at expected concentrations
 - **Mobility:** Soluble in water; may disperse in the environment
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13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local regulations. Avoid disposal to water bodies.
 - **Packaging Disposal:** Recycle or incinerate empty containers following local regulations.
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14. Transport Information (Detailed)

- **UN Number:** Not classified as hazardous for transport
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not regulated
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not classified as environmentally hazardous
- **Transport in Bulk:** Not applicable
- **Precautions for Transport:**
 - Keep dry and protected from moisture.
 - Avoid mechanical shocks and friction.
 - Ensure containers are properly sealed to prevent dust release.
 - During transportation, avoid contact with strong acids and oxidizers.

- Follow all standard local and international guidelines for transporting food-grade powders.
- If transported by road, rail, or ship, secure the cargo to prevent movement.
- In case of spillage during transport, sweep the material and prevent entry into drains.
- No special vehicle requirements are needed since it is non-flammable and non-toxic in normal quantities.
- Ensure proper labeling for food-grade substances if required by law.

15. Regulatory Information

- **Food Additive Status:** Approved as a food preservative (E282)
- **Safety, Health and Environmental Regulations:** Complies with Indian food safety regulations and international food additive standards.
- **Labeling Requirements:** Handle as a food additive; store in dry conditions.

16. Other Information

- **Disclaimer:** The information provided in this MSDS is based on current knowledge and is intended to describe the product for safety purposes. It should not be considered a specification or guarantee of product properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.