Basekim
Chemical Production Co.Ltd

Food Grade Calcium Propionate MSDS

1. Product Identification

Product Name: Food Grade Calcium Propionate
Alternative Name: Calcium Propanoate, E282
Chemical Formula: C6H10CaO4
Molecular Weight: 186.22 g/mol
Recommended Use: Food preservative, bakery mold inhibitor, food additive
Supplier: Basekim

2. Hazard Identification

Food Grade Calcium Propionate is generally considered a low-hazard material under normal handling conditions.

However, dust may cause temporary irritation.

Potential Effects:

- Eye contact may cause mild irritation.
- Dust inhalation may irritate the respiratory tract.
- Prolonged skin contact may cause mild irritation.
- Ingestion of industrial quantities may cause gastrointestinal discomfort.

Avoid unnecessary dust formation during handling.

3. Composition / Information on Ingredients

Component	Concentration
Calcium Propionate	Typically ≥99%
Chemical Formula	C6H10CaO4
CAS No.	4075-81-4
Food Additive Number	E282

4. First Aid Measures

Eye Contact:
Rinse carefully with clean water for at least 15 minutes. Remove contact lenses if easy to do.

Skin Contact:
Wash affected skin with soap and water.

Inhalation:
Move the affected person to fresh air. Seek medical attention if irritation continues.

Ingestion:
Rinse the mouth and drink water. Seek medical advice if a large quantity has been swallowed or symptoms develop.

5. Fire Fighting Measures

Food Grade Calcium Propionate is not considered highly flammable.

Suitable Extinguishing Media:

- Water spray
- Dry chemical
- Foam
- Carbon dioxide

Firefighters should use appropriate protective equipment where large quantities are involved.

6. Accidental Release Measures

Avoid generating airborne dust.

Sweep or vacuum spilled material using suitable equipment. Transfer the collected material into a clean, labeled waste container.

Prevent unnecessary release into drains or surface water.

7. Handling and Storage

Handle in clean, dry conditions suitable for food ingredients.

Recommended practices:

- Avoid breathing dust.
- Prevent contact with eyes.

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- Keep packaging tightly closed.
- Protect the product from moisture.
- Store in a cool and dry warehouse.
- Keep away from contamination.
- Use clean handling equipment.
- Follow FIFO stock management.

8. Exposure Controls / Personal Protection

Under normal food-production handling, standard workplace hygiene is generally sufficient.

Where dust levels are high, use:

- Safety glasses
- Protective gloves
- Dust mask or suitable respiratory protection
- Protective work clothing

Provide adequate workplace ventilation.

9. Physical and Chemical Properties

Property	Typical Information
Appearance	White powder or granules
Odor	Mild characteristic odor
Solubility	Soluble in water
Molecular Weight	186.22 g/mol
Chemical Formula	C6H10CaO4
pH	Typically neutral to slightly alkaline in solution
Flammability	Low
Physical State	Solid

10. Stability and Reactivity

The product is stable under recommended storage and handling conditions.

Avoid:

- Excessive moisture

- Strong incompatible chemicals
- Contamination
- Extreme heat

Hazardous polymerization is not expected.

11. Toxicological Information

Food Grade Calcium Propionate is widely used as a food preservative when applied according to applicable regulations.

Excessive dust exposure may cause temporary irritation to the eyes, nose, throat, or respiratory system.

12. Ecological Information

Avoid uncontrolled release of large quantities into the environment.

No significant environmental hazard is expected under normal handling and disposal conditions.

13. Disposal Considerations

Dispose of unused material and contaminated packaging according to local regulations.

Do not discharge large quantities directly into drains or waterways.

14. Transport Information

Food Grade Calcium Propionate is generally not classified as dangerous goods for normal commercial transport.

Always confirm applicable transport requirements for the destination country and shipping method.

15. Regulatory Information

The product is commonly identified as **E282** for food applications.

Manufacturers and users must comply with the food-additive, labeling, purity, and dosage regulations applicable in their target market.

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16. Disclaimer

This MSDS provides general safety information for Food Grade Calcium Propionate. Actual specifications, handling requirements, and regulatory classifications may vary by producer, batch, and destination country.

Users should review the latest supplier documentation and local regulations before industrial use.