

# Material Safety Data Sheet (MSDS)

**Product Name:** Calcium Caseinate Food Grade

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

**Contact No.:** +91 97272 88479

**Email:** [info@rawpharmabiz.com](mailto:info@rawpharmabiz.com)

**Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)

---

## 1. Identification of the Substance/Preparation and Company

**Product Name:** Calcium Caseinate

**Synonyms:** Casein Calcium Salt, Milk Protein Calcium Salt

**Chemical Formula:** Variable (Protein Complex)

**Molecular Weight:** Not applicable

**CAS Number:** 9005-43-0

**Grade:** Food Grade

**Recommended Use:** Used as a food additive, nutritional supplement, protein source, and emulsifying/stabilizing agent in food and beverages.

---

## 2. Composition / Information on Ingredients

**Substance:** Calcium Caseinate

**Purity:**  $\geq 98\%$

**Hazardous Components:** None classified as hazardous under normal conditions.

**Impurities:** Trace minerals or lactose (naturally occurring).

---

### 3. Hazards Identification

- **GHS Classification:** Not classified as hazardous.
- **Primary Route of Exposure:** Inhalation, skin contact, eye contact.
- **Health Hazards:**
  - Inhalation of dust may cause irritation to respiratory tract.
  - Eye contact may cause mild irritation.
  - Skin contact is not expected to be harmful.
- **Environmental Hazards:** Not considered hazardous to the environment.

---

### 4. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with soap and water.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes.
- **Ingestion:** Rinse mouth with water. Non-toxic, but seek medical advice if discomfort occurs.

---

### 5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or CO<sub>2</sub>.
- **Special Hazards:** Combustible organic material; may form CO, CO<sub>2</sub> upon burning.
- **Protective Equipment:** Use self-contained breathing apparatus and protective clothing.

---

### 6. Accidental Release Measures

- Avoid generating dust.
- Sweep or vacuum without raising dust and collect in sealed containers.
- Wash spill area with water.
- Prevent material from entering drains.

---

## 7. Handling and Storage

- Handle in accordance with good industrial hygiene practices.
- Store in a cool, dry, and well-ventilated place.
- Keep container tightly closed.
- Avoid moisture, direct sunlight, and strong odors.

---

## 8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established.
- **Respiratory Protection:** Use dust mask if airborne concentration is high.
- **Eye Protection:** Safety goggles recommended.
- **Skin Protection:** Gloves and protective clothing recommended.
- **General Hygiene:** Wash hands after handling.

---

## 9. Physical and Chemical Properties

- **Appearance:** Off-white to cream-colored powder
- **Odor:** Slight milky odor
- **Taste:** Neutral, bland
- **Solubility:** Dispersible in water
- **pH (10% solution):** 6.0 – 8.0
- **Bulk Density:** 0.3 – 0.5 g/cm<sup>3</sup>
- **Melting Point:** Not applicable (decomposes)
- **Flash Point:** Not applicable
- **Stability:** Stable under recommended conditions.

---

## 10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.

- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide, nitrogen oxides.
- **Conditions to Avoid:** Excessive heat, humidity, and dust formation.

---

## 11. Toxicological Information

- **Acute Toxicity:** Non-toxic food-grade protein.
- **Skin Irritation:** Non-irritating.
- **Eye Irritation:** May cause mild irritation due to dust.
- **Sensitization:** No known sensitization effects.
- **Carcinogenicity:** Not listed as a carcinogen.
- **Mutagenicity / Reproductive Toxicity:** No data indicating adverse effects.

---

## 12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic life.
- **Persistence & Degradability:** Biodegradable.
- **Bioaccumulation:** Not bioaccumulative.
- **Mobility in Soil:** Low mobility; readily biodegradable.

---

## 13. Disposal Considerations

- Dispose of in accordance with local regulations.
- Non-hazardous waste; can be disposed of as ordinary organic waste.
- Avoid release to the environment.

---

## 14. Transport Information (Detailed)

**UN Number:** Not applicable

**UN Proper Shipping Name:** Not regulated as dangerous goods

**Transport Hazard Class:** Not applicable

**Packing Group:** Not applicable

**Marine Pollutant:** No

**Environmental Hazards:** None known

**Road (ADR/RID):**

- Not classified as dangerous for transport by road.
- Use clean, dry, and closed containers.
- Protect from moisture during transit.

**Sea (IMDG):**

- Not regulated under IMDG Code.
- Keep product tightly sealed and stored away from moisture and heat.
- No marine pollutant properties.

**Air (IATA):**

- Not classified as hazardous under IATA regulations.
- Ensure packaging prevents dust release.

**Precautions During Transport:**

- Handle with care to avoid container damage.
- Keep away from strong-smelling or chemical substances.
- Avoid exposure to extreme temperatures or humidity during transport.

---

## 15. Regulatory Information

- **Regulation Compliance:**
  - Food grade – complies with FDA/FAO/WHO standards for food ingredients.
  - Not classified as hazardous under the Globally Harmonized System (GHS).
- **Labelling Requirements:** None required for food-grade material.

---

## 16. Other Information

**Disclaimer:**

The information provided in this MSDS is based on current knowledge and intended to describe

the product for health, safety, and environmental purposes only. It should not be construed as guaranteeing specific properties. Users are responsible for ensuring safe handling and compliance with applicable regulations.

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