

Material Safety Data Sheet (MSDS)

Product Name: Calcium Stearate
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Supplier:

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

- Product Name: Calcium Stearate
 - Chemical Name: Calcium octadecanoate
 - Recommended Use: Lubricant, release agent, stabilizer, plastic additive
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2. Composition / Information on Ingredients

- **Chemical Name:** Calcium Stearate
 - **Purity:** $\geq 99\%$
 - **CAS Number:** 1592-23-0
 - **Impurities:** Minor amounts of free fatty acids and other metal salts
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3. Hazard Identification

- **GHS Classification:** Not classified as hazardous

- **Potential Hazards:**

- May cause mild irritation to eyes and skin on prolonged contact
- Dust may cause respiratory irritation

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 with plenty of water for at least 15 minutes; seek medical advice if irritation persists
- **Ingestion:** Rinse mouth; do not induce vomiting; seek medical attention if discomfort occurs

5. Fire Fighting Measures

- **Flammable Properties:** Non-flammable
- **Extinguishing Media:** Water spray, foam, dry powder, or CO₂
- **Special Fire Fighting Procedures:** Wear protective clothing and self-contained breathing apparatus if necessary
- **Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, calcium oxide, and irritating organic fumes.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation; use protective equipment
- **Environmental Precautions:** Prevent entry into drains or watercourses
- **Cleanup Methods:** Sweep or vacuum up material; store in suitable containers for disposal

7. Handling and Storage

- **Handling:** Avoid inhalation of dust; avoid contact with eyes and skin
- **Storage:** Store in a cool, dry, well-ventilated area away from strong oxidizing agents
- **Packaging:** Keep container tightly closed

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** No specific limits; follow general dust exposure limits
- **Engineering Controls:** Use local exhaust ventilation to minimize dust
- **Personal Protective Equipment:**
 - Respiratory protection: dust mask
 - Eye protection: safety goggles
 - Skin protection: gloves and protective clothing

9. Physical and Chemical Properties

- **Appearance:** White or off-white powder
- **Odor:** Slight fatty odor
- **Melting Point:** 120–130°C
- **Boiling Point:** Decomposes before boiling
- **Solubility:** Insoluble in water; soluble in hot alcohol
- **pH:** 9–10 (10% aqueous suspension)

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture
- **Incompatible Materials:** Strong oxidizing agents
- **Hazardous Decomposition Products:** Carbon oxides upon combustion

11. Toxicological Information

- **Acute Toxicity:** Low toxicity; LD50 oral (rat) > 5 g/kg
- **Skin and Eye Irritation:** Mild irritation possible
- **Sensitization:** Not known to cause sensitization

- **Chronic Effects:** No known chronic health effects
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12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic organisms
 - **Persistence and Degradability:** Biodegradable
 - **Bioaccumulation:** Not expected to bioaccumulate
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13. Disposal Considerations

- Dispose of in accordance with local regulations
 - Avoid release into the environment
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14. Transport Information (Detailed)

- **UN Number:** Not regulated
 - **UN Proper Shipping Name:** Not applicable
 - **Transport Hazard Class:** Not classified as dangerous
 - **Packing Group:** Not applicable
 - **Transport Mode:** Road, rail, sea, and air – standard procedures for powders
 - **Special Precautions:**
 - Ensure containers are tightly closed to avoid leakage and dust release
 - Avoid contamination with incompatible materials such as strong oxidizers
 - Handle with care to prevent spillage or dust cloud formation, which may cause slipping hazards
 - For bulk transportation, use closed or covered vehicles
 - Maintain good ventilation in transport containers
 - Emergency responders should wear dust masks and eye protection in case of accidental release during transit
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15. Regulatory Information

- Calcium Stearate should be handled in accordance with applicable occupational safety, environmental protection, pharmaceutical, food, and chemical handling regulations.
- The product is not classified as hazardous under the Globally Harmonized System (GHS) for normal industrial, pharmaceutical, or food-grade applications.

16. Other Information

- The information provided is based on current knowledge and intended to describe the product for safety purposes. It should not be construed as a warranty of any specific property.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.