

Material Safety Data Sheet (MSDS)

Product Name: Calcium Stearate USP Grade

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

Synonyms: Octadecanoic acid calcium salt, Calcium distearate

Chemical Formula: $\text{Ca}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$

CAS No.: 1592-23-0

Molecular Weight: 607.04 g/mol

Intended Use: Used as lubricant, anti-caking agent, stabilizer, and release agent in pharmaceutical and food formulations.

2. Hazards Identification

Classification (GHS): Not classified as hazardous under GHS criteria.

Label Elements:

- **Signal Word:** None
- **Hazard Statements:** Not considered hazardous.

- **Precautionary Statements:** Avoid dust formation and inhalation.

Potential Health Effects:

- **Inhalation:** Dust may cause mild irritation to respiratory tract.
 - **Skin Contact:** May cause minor irritation on prolonged contact.
 - **Eye Contact:** Dust may cause mechanical irritation.
 - **Ingestion:** Low toxicity; large doses may cause mild gastrointestinal discomfort.
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3. Composition / Information on Ingredients

This product contains **Calcium Stearate** as the sole ingredient.

Chemical Name: Calcium Stearate

CAS Number: 1592-23-0

EINECS Number: 216-472-8

Purity: 100%

4. First Aid Measures

- **Inhalation:** Move to fresh air. If irritation persists, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Seek medical attention if irritation develops.
 - **Eye Contact:** Rinse immediately with plenty of water. Seek medical attention if symptoms persist.
 - **Ingestion:** Rinse mouth with water. Seek medical advice if discomfort occurs.
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5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, or CO₂.
- **Specific Hazards:** Product is combustible but not highly flammable.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and place in appropriate container for disposal.
- Provide adequate ventilation.
- Avoid discharge into drains or watercourses.

7. Handling and Storage

- **Handling:** Avoid generating dust. Use with adequate ventilation.
- **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly closed and away from moisture and heat sources.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** No specific exposure limits established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protection:**
 - **Respiratory Protection:** Use dust mask if dust is generated.
 - **Eye Protection:** Safety glasses recommended.
 - **Skin Protection:** Protective gloves.
 - **Hygiene Measures:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** Off-white to light brown free-flowing powder
- **Odor:** Slight fatty odor
- **Solubility:** Insoluble in water; soluble in hot ethanol and organic solvents

- **Melting Point:** 150–160°C
 - **Boiling Point:** Not applicable
 - **Density:** Approx. 1.08 g/cm³
 - **pH (1% dispersion):** 7.0–8.5
 - **Flash Point:** Not applicable
 - **Autoignition Temperature:** Not available
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10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
 - **Incompatible Materials:** Strong oxidizing agents and acids.
 - **Hazardous Decomposition Products:** Carbon oxides and calcium oxides.
 - **Conditions to Avoid:** Excessive heat, open flame, moisture.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic in normal handling conditions.
 - **Skin Irritation:** Mild, transient irritation possible.
 - **Eye Irritation:** Mild, mechanical irritation possible.
 - **Carcinogenicity:** Not classified as carcinogenic.
 - **Mutagenicity / Teratogenicity:** No known effects.
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12. Ecological Information

- **Ecotoxicity:** Non-toxic to aquatic life.
- **Persistence and Degradability:** Biodegradable.
- **Bioaccumulation:** Not expected to bioaccumulate.
- **Mobility in Soil:** Low mobility due to insolubility in water.

13. Disposal Considerations

- Dispose of in accordance with local, state, and national regulations.
 - Do not discharge into drains or the environment.
 - Can be incinerated in approved facility or landfilled according to local regulations.
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14. Transport Information (Detailed)

UN Number: Not applicable

UN Proper Shipping Name: Not regulated as a hazardous material

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Label Requirements: None

Transport in bulk (according to Annex II of MARPOL and the IBC Code): Not classified as dangerous goods.

Special Precautions for User:

- Avoid generation of dust during loading/unloading.
- Ensure containers are well sealed and secured to prevent spillage.
- Transport under dry conditions to prevent product degradation.
- Use clean, dry vehicles suitable for powder materials.

Road (ADR/RID): Not restricted

Sea (IMDG): Not restricted

Air (IATA): Not restricted

Inland Waterway (ADN): Not restricted

Environmental Hazards: Product is not considered a marine pollutant or environmentally hazardous for transport.

Transport Remarks:

- Ensure packaging is intact and labelled properly.
 - Avoid contact with oxidizing agents during transport.
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15. Regulatory Information

- **Regulation Compliance:** Complies with USP, FDA, and EU regulations for use in food and pharmaceutical applications.
 - **GHS Classification:** Non-hazardous
 - **Chemical Inventory:** Listed on TSCA, EINECS, and other major inventories.
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16. Other Information

Disclaimer:

The information provided in this MSDS is based on current knowledge and is intended to describe the product only in terms of health, safety, and environmental requirements. It should not be construed as guaranteeing any specific property of the product.

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