

Material Safety Data Sheet (MSDS)

Product Name: Calcium Stearate BP 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: $\text{Ca}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$

Molecular Weight: 607.04 g/mol

Use: Used as lubricant, anti-caking agent, stabilizer, and release agent in pharmaceuticals, cosmetics, and plastics.

2. Hazards Identification

Classification: Not classified as hazardous according to GHS criteria.

Hazard Statements:

- May cause mild irritation to eyes and skin.
- Dust may cause mechanical irritation to the respiratory tract.

Precautionary Statements:

- Avoid inhalation of dust.
- Use with adequate ventilation.
- Wash thoroughly after handling.

GHS Label Elements:

- **Pictogram:** None required
- **Signal Word:** None

3. Composition / Information on Ingredients

Chemical Name: Calcium Stearate

CAS No.: 1592-23-0

EINECS No.: 216-472-8

Purity: ≥ 98% (BP Grade)

4. First Aid Measures

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Wash affected area with soap and water. Seek medical advice if irritation develops.

Inhalation: Move to fresh air. If breathing difficulties occur, seek medical assistance.

Ingestion: Rinse mouth with water. Do not induce vomiting. Get medical attention if symptoms persist.

5. Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, foam, CO₂, or water spray.

Unsuitable Media: None known.

Special Hazards: Dust may form explosive mixture in air.

Protective Equipment: Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Personal Precautions: Avoid creating dust. Use personal protective equipment.

Environmental Precautions: Prevent entry into drains or waterways.

Methods for Cleaning Up: Sweep or vacuum up without generating dust. Dispose of in accordance with local regulations.

7. Handling and Storage

Handling:

- Avoid contact with eyes, skin, and clothing.
- Avoid generating dust.
- Use with adequate ventilation.

Storage:

- Store in a cool, dry, well-ventilated area.
- Keep containers tightly closed.
- Keep away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limits: Not established.

Engineering Controls: Provide adequate ventilation, especially in confined areas.

Personal Protective Equipment:

- **Respiratory Protection:** Dust mask if airborne concentrations are high.
- **Eye Protection:** Safety goggles.
- **Skin Protection:** Protective gloves and clothing.
- **Hygiene Measures:** Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance: Fine white powder

Odor: Faint fatty odor

pH (10% suspension): 7.0 – 9.0

Melting Point: 150 – 160°C

Solubility: Insoluble in water; soluble in hot ethanol and toluene

Specific Gravity: 1.08 – 1.15

Flash Point: Not applicable (non-flammable solid)

10. Stability and Reactivity

Stability: Stable under normal conditions.

Incompatible Materials: Strong oxidizing acids and bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and calcium oxide upon heating.

Conditions to Avoid: Excessive heat, sparks, open flames.

11. Toxicological Information

Acute Toxicity: Non-toxic under normal use conditions.

Skin Corrosion/Irritation: Mild, reversible irritation possible.

Eye Damage/Irritation: May cause transient irritation.

Inhalation: Dust may irritate the respiratory system.

Ingestion: May cause mild gastrointestinal discomfort.

Chronic Effects: No data indicating chronic toxicity.

12. Ecological Information

Ecotoxicity: Not expected to be hazardous to the environment.

Persistence and Degradability: Biodegradable.

Bioaccumulation: No potential for bioaccumulation.

Mobility in Soil: Low mobility due to insolubility in water.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations.

Do not dispose of into drains or natural waterways.

Waste material can be incinerated or sent to approved landfill sites.

14. Transport Information (Detailed)

UN Number: Not applicable (Non-hazardous material)

UN Proper Shipping Name: Calcium Stearate

Transport Hazard Class: Not classified as hazardous for transport

Packing Group: Not applicable

Environmental Hazards: Not environmentally hazardous

Special Precautions for User:

- Avoid generating dust during handling or transfer.
- Ensure containers are tightly closed to prevent spillage.
- Maintain good housekeeping to avoid dust accumulation.

Transport in Bulk (Annex II MARPOL 73/78 and IBC Code): Not applicable

Label for Transport: None required

Road/Rail (ADR/RID): Not regulated

Sea (IMDG): Not regulated

Air (IATA/ICAO): Not regulated

Remarks:

Calcium Stearate is considered **non-dangerous goods** under international transport regulations. It poses **no flammability, corrosivity, or toxicity risks** during normal transportation. Standard protective handling and secure packaging are recommended to prevent spillage or dust emission.

15. Regulatory Information

Regulation Compliance:

- Complies with BP/EP/USP standards.
- Not listed as hazardous under OSHA, REACH, or TSCA.
- No specific labeling required under GHS.

16. Other Information

Disclaimer:

The information provided above is believed to be accurate and represents the best data currently available to us. The user assumes all responsibility for using the product safely and in compliance with applicable regulations.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024

- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.