

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



SAFETY DATA SHEET (SDS)

Product Name: CALCIUM STEARATE (Micronized)

CAS Number: 1592-23-0

1. Identification of the Substance/Mixture and of the Company/Undertaking

Field	Information
Product Name	CALCIUM STEARATE (MICRONIZED)
CAS Number	1592-23-0
Relevant Identified Uses	Internal/external lubricant, release agent, flow aid, hydrophobic agent in plastics, rubber, coatings, inks, and masterbatches
Uses Advised Against	Not intended for pharmaceutical or food use unless specifically tested and qualified
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
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2. Hazards Identification

Field	Description
Classification (CLP)	Not classified as hazardous under Regulation (EC) No. 1272/2008
Classification (67/548/EEC)	Not classified
Label Elements	No pictograms, signal words, or hazard statements required
Supplemental	EUH210: Safety data sheet available on request

3. Composition/Information on Ingredients

Substance	CAS No	EC No	Purity
Calcium Stearate	1592-23-0	216-472-8	≥ 98%

4. First Aid Measures

- **General Advice:** No specific hazards under normal industrial use.
- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. If irritation develops, consult a doctor.

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- **Eye Contact:** Rinse cautiously with clean water. Remove contact lenses. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Non-toxic in small amounts. Seek medical help if discomfort occurs.

5. Firefighting Measures

- **Extinguishing Media:** Foam, dry chemical, CO₂, or water spray
- **Fire Hazards:** Combustible; may emit calcium oxide, CO, and CO₂ upon thermal decomposition
- **Protective Equipment:** Use self-contained breathing apparatus and full protective gear

6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of dust. Use PPE such as gloves, goggles, and dust mask.
- **Environmental Precautions:** Avoid entry into drains or waterways.
- **Clean-Up Methods:** Sweep or vacuum without generating dust. Dispose in accordance with local regulations.

7. Handling and Storage

- **Handling:** Avoid eye contact and inhalation of dust. Use in well-ventilated areas.
- **Storage:** Store in tightly sealed containers in a cool, dry, ventilated area away from moisture and ignition sources.
- **Explosion Risk:** Fine dust may form explosive mixtures with air under severe conditions.

8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	General dust limits: 10 mg/m ³ (inhalable), 5 mg/m ³ (respirable)
Engineering Controls	Provide local exhaust ventilation where dust is generated
PPE	Dust mask (P2), goggles, gloves
Environmental Controls	Prevent dust dispersion. Use appropriate containment measures

9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white fine powder

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Odour	Mild fatty odour
pH	Not applicable
Melting Point	~150–160 °C
Boiling Point	Not applicable
Flash Point	>200 °C
Flammability	Combustible
Vapour Pressure	Negligible
Relative Density	~1.0 – 1.1
Solubility in Water	Practically insoluble
Auto-Ignition Temperature	>400 °C
Decomposition Temperature	>300 °C
Explosive Properties	Dust explosion possible under airborne conditions
Oxidizing Properties	None

10. Stability and Reactivity

- **Stability:** Stable under normal handling and storage conditions
- **Hazardous Reactions:** None known
- **Incompatible Materials:** Strong oxidizing agents, acids
- **Decomposition Products:** Calcium oxide, CO, CO₂

11. Toxicological Information

Test	Result
Oral LD ₅₀ (rat)	>5000 mg/kg
Skin Irritation	Not irritating
Eye Irritation	May cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not classified by IARC, NTP, or OSHA

12. Ecological Information

Organism	Test	Result
Fish	LC ₅₀ (96 h)	>1000 mg/L
Daphnia	EC ₅₀ (48 h)	>1000 mg/L
Algae	EC ₅₀ (72 h)	>1000 mg/L

Conclusion: Not expected to pose significant environmental hazard. Poorly soluble. Not readily biodegradable.

13. Disposal Considerations

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- **Product Waste:** Dispose in accordance with local regulations. Not classified as hazardous.
- **Contaminated Packaging:** Rinse and reuse or dispose as per applicable laws.
- **Waste Code (EU):** 07 06 99 – Wastes not otherwise specified

14. Transport Information

Mode	Classification	Remarks
ADR/RID (Road/Rail)	Not regulated	Non-dangerous goods
IMDG (Sea)	Not regulated	Not a marine pollutant
ICAO/IATA (Air)	Not regulated	Not restricted
DOT (USA)	Not regulated	Not hazardous

15. Regulatory Information

- **REACH:** Exempt (inorganic compound)
- **CLP (EC No. 1272/2008):** Not classified
- **Inventories:** Listed (TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC)

16. Other Information – Calcium Stearate (CAS 1592-23-0)

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized industrial grade

Abbreviations:

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

LD₅₀ – Median Lethal Dose

EC₅₀ – Half Maximal Effective Concentration

Disclaimer:

This SDS is provided for safe handling, storage, and transport of the material. It does not constitute a product specification. Polymer Add (Thailand) Co., Ltd assumes no responsibility for misuse or handling outside of recommended use. Final responsibility remains with the user.