

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: BARIUM STEARATE (Micronized)

CAS Number: 6865-35-6

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

Field	Information
Product Name	BARIUM STEARATE (MICRONIZED)
CAS Number	6865-35-6
Relevant Identified Uses	Lubricant, stabilizer, processing aid, and flow enhancer in PVC, rubber, coatings, inks, masterbatches, and thermoplastics
Uses Advised Against	Not intended for food, pharma, or cosmetics unless explicitly tested and approved
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
Factory Address	188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280
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2. Hazards Identification

Field	Description
Classification (CLP)	Acute Toxicity (Oral) – Category 4 under Regulation (EC) No. 1272/2008
Signal Word	Warning
Hazard Statement(s)	H302: Harmful if swallowed
Precautionary Statements	P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301+P312: If swallowed, call a POISON CENTER or doctor if you feel unwell.
Supplemental	EUH210: Safety data sheet available on request

3. Composition/Information on Ingredients

Substance	CAS No	EC No	Purity
Barium Stearate	6865-35-6	229-962-1	≥ 98%

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4. First Aid Measures

- **General Advice:** If symptoms persist, seek medical attention.
- **Inhalation:** Move to fresh air. Seek medical advice if breathing difficulty develops.
- **Skin Contact:** Wash with soap and water. Seek medical advice if irritation occurs.
- **Eye Contact:** Rinse immediately with clean water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical help immediately.

5. Firefighting Measures

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

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use PPE (gloves, mask, goggles).
- **Environmental Precautions:** Prevent entry into waterways, drains, or soil.
- **Clean-Up Methods:** Use non-sparking tools. Collect in labelled containers. Dispose as per local regulations.

7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Do not breathe dust. Handle in well-ventilated area.
- **Storage:** Store in tightly closed containers in a dry, cool, and ventilated place away from acids and moisture.

8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	0.5 mg/m ³ (as Ba, inhalable, ACGIH TLV)
Engineering Controls	Use local exhaust ventilation

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PPE	Dust mask (P2), chemical-resistant gloves, goggles, protective clothing
Environmental Controls	Avoid dust release to the environment

9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white fine powder
Odour	Odourless
pH	Not applicable
Melting Point	~200–210 °C (decomposes)
Boiling Point	Not applicable
Flash Point	>200 °C
Flammability	Combustible solid
Vapour Pressure	Negligible
Relative Density	~1.1 – 1.3
Solubility in Water	Practically insoluble
Auto-Ignition Temperature	>400 °C
Decomposition Temperature	>250 °C
Explosive Properties	Dust explosion risk under airborne conditions
Oxidizing Properties	None

10. Stability and Reactivity

- **Stability:** Stable under recommended handling and storage conditions
- **Hazardous Reactions:** Reacts with strong acids to release toxic barium salts
- **Incompatible Materials:** Strong acids, oxidizing agents
- **Decomposition Products:** CO, CO₂, barium oxide

11. Toxicological Information

Test	Result
Oral LD ₅₀ (rat)	300–2000 mg/kg (harmful if swallowed)
Skin Irritation	Not irritating
Eye Irritation	May cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not listed as carcinogen (IARC, NTP, OSHA)

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12. Ecological Information

Organism	Test	Result
Fish	LC ₅₀ (96 h)	>100 mg/L
Daphnia	EC ₅₀ (48 h)	>100 mg/L
Algae	EC ₅₀ (72 h)	>100 mg/L

Conclusion: Not readily biodegradable. Avoid release to environment. Potential accumulation in aquatic systems.

13. Disposal Considerations

- **Product Waste:** Dispose as hazardous waste under local regulations.
- **Contaminated Packaging:** Dispose according to local/national regulations.
- **Waste Code (EU):** 06 03 14 – Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

14. Transport Information

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

15. Regulatory Information

- **REACH:** Registered or exempt
- **CLP (EC No. 1272/2008):** Acute Toxicity Category 4 (Oral)
- **Inventories:** Listed in TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC

16. Other Information – Barium Stearate (CAS 6865-35-6)

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

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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.

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