

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 SULFATE (MICRONIZED)

CAS Number: 7727-43-7

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

Field	Information
Product Name	BARIUM SULFATE (MICRONIZED)
CAS Number	7727-43-7
Relevant Identified Uses	Functional filler in plastics, coatings, adhesives, rubber, and paints
Uses Advised Against	Not suitable for pharmaceutical, cosmetic or food applications
Supplier	Polymer Add (Thailand) Co., Ltd
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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 as dangerous
Label Elements (CLP)	No pictograms, signal words, or hazard statements
Supplemental	EUH210: Safety data sheet available on request

3. Composition/Information on Ingredients

Substance	CAS No	EC No	Purity
Barium Sulfate	7727-43-7	231-784-4	≥ 98% (micronized)

4. First Aid Measures

- **General Advice:** No acute hazards expected. Remove from exposure and seek medical attention if symptoms occur.
- **Inhalation:** Move to fresh air. Seek medical advice if coughing or breathing difficulty occurs.
- **Skin Contact:** Wash with soap and water. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse thoroughly with clean water for several minutes. Remove contact lenses if present.

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- **Ingestion:** Rinse mouth. Non-toxic in small amounts. Seek medical advice if symptoms appear.

5. Firefighting Measures

- **Extinguishing Media:** Use appropriate media for surrounding fire. Barium sulfate is non-combustible.
- **Hazards:** Inert inorganic compound. No known fire hazard.
- **Protective Equipment:** Use standard firefighting protective gear.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use dust mask and goggles if necessary.
- **Environmental Precautions:** Prevent large quantities from entering drains or watercourses.
- **Clean-Up Methods:** Sweep or vacuum up material without creating airborne dust. Dispose of in accordance with local regulations.

7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Use in well-ventilated areas or with dust extraction systems.
- **Storage:** Store in a dry, well-ventilated place in tightly sealed containers.
- **Explosion/Fire Risk:** Low explosion risk, but fine powder can become airborne under extreme conditions.

8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	10 mg/m ³ (total dust – ACGIH)
Engineering Controls	Local exhaust ventilation recommended
PPE	Safety glasses, gloves, P2 dust mask for airborne dust
Environmental Controls	Prevent entry into waterways or sewers

9. Physical and Chemical Properties

Property	Value
Appearance	Fine white powder
Odour	Odourless
pH (in slurry)	6.5 – 9.5

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Melting Point	>1580 °C
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Non-flammable
Vapour Pressure	Not applicable
Relative Density	~4.3 – 4.6
Solubility in Water	Insoluble
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	Not determined
Explosive Properties	Negligible unless suspended as airborne dust in high concentration
Oxidizing Properties	None

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Hazardous Reactions:** None known
- **Incompatible Materials:** Strong acids may release toxic hydrogen sulfide gas
- **Decomposition Products:** None under normal use

11. Toxicological Information

Test	Result
Oral LD ₅₀ (rat)	>5000 mg/kg (expected)
Skin Irritation	Not irritating
Eye Irritation	May cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not listed as carcinogenic (inhalation of non-respirable form only)

12. Ecological Information

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

Conclusion: Inert, naturally occurring mineral. Not hazardous to aquatic life. Not bioaccumulative.

13. Disposal Considerations

- **Product Waste:** Dispose of according to local, regional, and national regulations. Not classified as hazardous waste.

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- **Contaminated Packaging:** Clean before reuse or dispose as per applicable regulations.
- **Waste Code (EU):** 01 04 99 – Other wastes from processing of non-metals

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 (naturally occurring mineral, not chemically modified)
- **CLP (EC No. 1272/2008):** Not classified
- **Global Inventories:** Listed or exempt (TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC)

16. Other Information – Barium Sulfate (CAS 7727-43-7)

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** Initial SDS in harmonized GHS format

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 intended as guidance for safe handling and does not constitute a product specification. Polymer Add (Thailand) Co., Ltd assumes no liability for improper use. Final responsibility lies with the end user.