

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: ZINC BENZOATE (Micronized)

CAS Number: 553-72-0

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

Field	Information
Product Name	ZINC BENZOATE (MICRONIZED)
CAS Number	553-72-0
Relevant Identified Uses	Nucleating agent, acid scavenger, heat stabilizer, polymer additive in plastics, adhesives, coatings, and VCI applications
Uses Advised Against	Not intended for pharmaceutical or food use unless specifically tested and certified
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 under Regulation (EC) No. 1272/2008
Classification (67/548/EEC)	Not classified
Label Elements	No hazard pictograms or signal words required
Supplemental	EUH210: Safety data sheet available on request

3. Composition/Information on Ingredients

Substance	CAS No	EC No	Purity
Zinc Benzoate	553-72-0	209-045-0	≥ 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 occurs, consult a physician.
- **Eye Contact:** Rinse with clean water for several minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if discomfort occurs.

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5. Firefighting Measures

- **Extinguishing Media:** Use dry chemical, foam, CO₂, or water spray
- **Fire Hazards:** May emit zinc oxide, benzoic acid, CO, and CO₂ upon thermal decomposition. Fine powder may form explosive dust-air mixtures.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Avoid generating dust. Use personal protective equipment (mask, goggles, gloves).
- **Environmental Precautions:** Avoid release to water bodies or drains.
- **Clean-Up Methods:** Sweep or vacuum without raising dust. Collect in suitable containers. Dispose according to local regulations.

7. Handling and Storage

- **Handling:** Avoid inhalation and contact with eyes or skin. Use in well-ventilated areas. Prevent dust formation.
- **Storage:** Store in a cool, dry, well-ventilated area. Keep containers tightly closed and away from moisture and oxidizing agents.

8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	No specific limit; follow general dust limits (10 mg/m ³ inhalable, 5 mg/m ³ respirable)
Engineering Controls	Use local exhaust ventilation and dust collection systems
PPE	Dust mask (P2), chemical-resistant gloves, safety goggles
Environmental Controls	Prevent environmental contamination or release to drains

9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white fine powder
Odour	Odourless
pH (1% solution)	~7–8
Melting Point	~280 °C (decomposes)

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Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Combustible as fine powder
Vapour Pressure	Negligible
Relative Density	~1.4 – 1.5
Solubility in Water	Slightly soluble (~0.1 g/L)
Auto-Ignition Temperature	Not determined
Decomposition Temperature	>280 °C
Explosive Properties	Dust explosion risk under airborne conditions
Oxidizing Properties	None

10. Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Hazardous Reactions:** None known under normal processing.
- **Incompatible Materials:** Strong oxidizing agents and acids
- **Decomposition Products:** CO, CO₂, zinc oxide, benzoic acid vapors

11. Toxicological Information

Test	Result
Oral LD ₅₀ (rat)	>2000 mg/kg
Skin Irritation	Not irritating
Eye Irritation	May cause mild mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not listed by IARC, NTP, or OSHA

12. Ecological Information

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

Conclusion:

- Not expected to bioaccumulate
- Poor water solubility
- Not readily biodegradable
- Avoid direct discharge into the environment

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13. Disposal Considerations

- **Product Waste:** Dispose in accordance with applicable local/national regulations.
- **Contaminated Packaging:** Clean thoroughly before reuse or dispose as solid waste.
- **Waste Code (EU):** 07 06 99 – Wastes not otherwise specified

14. Transport Information

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

15. Regulatory Information

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

16. Other Information – Zinc Benzoate (CAS 553-72-0)

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized technical 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 industrial handling and transportation purposes only. It does not serve as a product specification or guarantee. Polymer Add (Thailand) Co., Ltd shall not be held liable for misuse or mishandling. Final responsibility lies with the user.