

# 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](mailto:contact@polymeradd.co.th)



## SAFETY DATA SHEET (SDS)

**Product Name:** LITHIUM BENZOATE (Micronized)

**CAS Number:** 553-54-8

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

Field	Information
Product Name	LITHIUM BENZOATE (MICRONIZED)
CAS Number	553-54-8
Relevant Identified Uses	Nucleating agent, acid scavenger, and polymer additive in plastics, adhesives, coatings, and VCI films
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
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)	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
Lithium Benzoate	553-54-8	209-047-1	≥ 98%

### 4. First Aid Measures

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

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- **Eye Contact:** Rinse cautiously with clean water. Remove contact lenses. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if discomfort occurs.

## 5. Firefighting Measures

- **Extinguishing Media:** Foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>), or water spray
- **Fire Hazards:** Dust may form explosive mixtures in air. Decomposition may release CO, CO<sub>2</sub>, and lithium compounds.
- **Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of dust. Wear protective equipment such as mask, gloves, and goggles.
- **Environmental Precautions:** Avoid release to drains, watercourses, or soil.
- **Clean-Up Methods:** Sweep up or vacuum using non-sparking tools. Minimize dust generation. Collect in labeled containers and dispose according to local regulations.

## 7. Handling and Storage

- **Handling:** Handle in well-ventilated areas. Avoid dust formation and contact with eyes and skin.
- **Storage:** Store in a tightly closed container in a cool, dry, and well-ventilated place. Protect from moisture and strong oxidizers.

## 8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	Not specifically established; follow general dust limits: 10 mg/m <sup>3</sup> (inhalable), 5 mg/m <sup>3</sup> (respirable)
Engineering Controls	Provide adequate ventilation and dust control
PPE	Dust mask (P2), safety goggles, chemical-resistant gloves
Environmental Controls	Prevent dust dispersion and environmental release

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## 9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white micronized powder
Odour	Odourless
pH (1% soln)	~7–8
Melting Point	~300 °C (decomposes)
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Not flammable, but may form combustible dust
Vapour Pressure	Negligible
Relative Density	~1.2 – 1.3
Solubility in Water	Soluble
Auto-Ignition Temperature	Not determined
Decomposition Temperature	>300 °C
Explosive Properties	Dust may pose explosion hazard under specific conditions
Oxidizing Properties	None

## 10. Stability and Reactivity

- **Stability:** Stable under recommended storage and handling conditions.
- **Hazardous Reactions:** None known under normal use.
- **Incompatible Materials:** Strong oxidizing agents, acids
- **Decomposition Products:** CO, CO<sub>2</sub>, and lithium oxide fumes

## 11. Toxicological Information

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

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## 12. Ecological Information

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

### Conclusion:

- Poor water solubility, low bioaccumulation potential
- Not expected to be harmful to aquatic organisms under normal conditions
- Avoid uncontrolled release to environment

## 13. Disposal Considerations

- **Product Waste:** Dispose of in accordance with local/national regulations. Not classified as hazardous.
- **Contaminated Packaging:** Reuse or recycle if possible after thorough cleaning. Otherwise, dispose as industrial 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:** Registered or exempted as per polymer additive regulations
- **CLP (EC No. 1272/2008):** Not classified
- **Inventories:** Listed in TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC

## 16. Other Information – Lithium Benzoate (CAS 553-54-8)

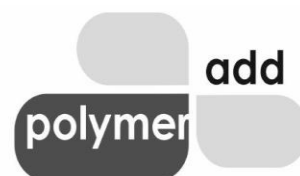
- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized technical grade

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## Abbreviations:

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

LD<sub>50</sub> – Median Lethal Dose

EC<sub>50</sub> – Half Maximal Effective Concentration

## Disclaimer:

This SDS is intended solely for safe industrial handling, storage, and transport. It is not a product specification. Polymer Add (Thailand) Co., Ltd disclaims liability for any misuse or misapplication. Final responsibility lies with the user.

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