

# 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) ZINC GLYCEROLATE (Micronized) CAS Number: 557-48-0

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

Field	Information
Product Name	<b>ZINC GLYCEROLATE (MICRONIZED)</b>
CAS Number	557-48-0
Relevant Identified Uses	Nucleating agent for PLA and biopolymers; crystallization modifier; processing aid for biodegradable plastics; functional additive in masterbatches
Uses Advised Against	Not intended for pharmaceutical or direct food use unless specifically tested and certified
Supplier	Polymer Add (Thailand) Co., Ltd
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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 Glycerolate	557-48-0	209-184-5	≥ 98%

### 4. First Aid Measures

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

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

## 5. Firefighting Measures

- **Extinguishing Media:** Dry chemical, foam, CO<sub>2</sub>, or water spray.
- **Fire Hazards:** Thermal decomposition may release zinc oxide fumes, glycerol vapours, CO, and CO<sub>2</sub>. Fine powder may form explosive dust–air mixtures.
- **Protective Equipment:** Self-contained breathing apparatus and full protective clothing should be worn.

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use PPE (mask, goggles, gloves).
- **Environmental Precautions:** Prevent release to drains, soil, or waterways.
- **Clean-Up Methods:** Sweep or vacuum without generating dust. Collect in sealed containers for disposal per local regulations.

## 7. Handling and Storage

- **Handling:** Avoid inhalation of dust. Avoid contact with eyes or skin. Use with adequate ventilation.
- **Storage:** Store in a cool, dry, ventilated area. Keep containers tightly closed. Protect from moisture, acids, and oxidizing agents.

## 8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	No specific limit; follow general dust limits (10 mg/m <sup>3</sup> inhalable, 5 mg/m <sup>3</sup> respirable)
Engineering Controls	Local exhaust ventilation, dust collection systems
PPE	Dust mask (P2), chemical-resistant gloves, safety goggles
Environmental Controls	Prevent contamination of drains and water bodies

## 9. Physical and Chemical Properties

Property	Value
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Appearance	White to off-white fine powder
Odour	Odourless to faint
pH (1% dispersion)	~6–8
Melting Point	>300 °C (decomposes)
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Combustible as fine powder
Vapour Pressure	Negligible
Relative Density	~1.9–2.1
Solubility in Water	Insoluble
Auto-Ignition Temperature	Not determined
Decomposition Temperature	>300 °C
Explosive Properties	Dust explosion risk when airborne
Oxidizing Properties	None

## 10. Stability and Reactivity

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

## 11. Toxicological Information

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

## 12. Ecological Information

Organism	Test	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
- Not expected to bioaccumulate

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- Not readily biodegradable
- Avoid uncontrolled release into environment

## 13. Disposal Considerations

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

## 14. Transport Information

Mode	Classification	Remarks
ADR/RID	Not regulated	Not classified as dangerous goods
IMDG	Not regulated	Not a marine pollutant
ICAO/IATA	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:** Expected to be listed in TSCA, DSL, AICS, IECSC, ENCS, KECI, PICCS, NZIoC

## 16. Other Information – Zinc Glycerolate (CAS 557-48-0)

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** December 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

LD<sub>50</sub> – Median Lethal Dose

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

### Disclaimer:

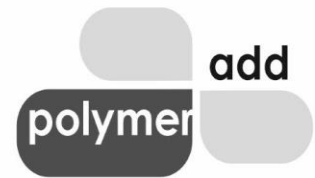
This SDS is provided for industrial handling and transportation purposes only. It does not constitute a

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