

# 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:** GLYCEROL MONOSTEARATE (GMS)

**CAS Number:** 31566-31-1

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

Field	Information
Product Name	GLYCEROL MONOSTEARATE (GMS) MICRONIZED
CAS Number	31566-31-1
Relevant Identified Uses	Emulsifier, lubricant, antistatic agent, internal/external processing aid in plastics, masterbatches, films, adhesives, inks, and coatings
Uses Advised Against	Not intended for pharmaceutical or food use unless specifically tested and qualified
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 as hazardous under Regulation (EC) No. 1272/2008
Classification (67/548/EEC)	Not classified
Label Elements	No pictograms, signal words, or hazard statements required
Supplemental	EUH210: Safety data sheet available on request

### 3. Composition/Information on Ingredients

Substance	CAS No	EC No	Purity
Glycerol Monostearate (GMS)	31566-31-1	250-705-4	≥ 90% (typical GMS 90%)

### 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 develops, consult a doctor.

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- **Eye Contact:** Rinse cautiously with clean water. Remove contact lenses. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Non-toxic in small amounts. Seek medical help if discomfort occurs.

## 5. Firefighting Measures

- **Extinguishing Media:** Foam, dry chemical, CO<sub>2</sub>, or water spray
- **Fire Hazards:** Combustible solid; may release acrolein, CO, CO<sub>2</sub> on thermal decomposition
- **Protective Equipment:** Wear self-contained breathing apparatus and full protective clothing if involved in fire

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of dust. Use PPE such as gloves, goggles, and dust mask.
- **Environmental Precautions:** Prevent release to waterways or drains.
- **Clean-Up Methods:** Sweep or vacuum up without generating dust. Dispose of according to local regulations.

## 7. Handling and Storage

- **Handling:** Avoid contact with eyes and inhalation of dust. Use in well-ventilated area.
- **Storage:** Keep in tightly sealed containers in cool, dry, ventilated space away from direct sunlight and moisture.
- **Explosion Risk:** Fine dust may form explosive mixtures with air in extreme cases

## 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	Use local exhaust ventilation if dust is generated
PPE	Dust mask (P2), goggles, gloves
Environmental Controls	Avoid dispersal into the environment. Use appropriate containment methods

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## 9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white waxy powder or flakes
Odour	Mild fatty odour
pH	Not applicable
Melting Point	~55 – 65 °C
Boiling Point	Not applicable (decomposes)
Flash Point	>180 °C
Flammability	Combustible
Vapour Pressure	Negligible
Relative Density	~0.95 – 1.05
Solubility in Water	Practically insoluble (dispersible)
Auto-Ignition Temperature	>350 °C
Decomposition Temperature	>200 °C
Explosive Properties	Dust explosion possible under extreme airborne conditions
Oxidizing Properties	None

## 10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions
- **Hazardous Reactions:** None known
- **Incompatible Materials:** Strong oxidizing agents
- **Decomposition Products:** CO, CO<sub>2</sub>, acrolein under thermal degradation

## 11. Toxicological Information

Test	Result
Oral LD <sub>50</sub> (rat)	>5000 mg/kg
Skin Irritation	Not irritating
Eye Irritation	May cause mechanical irritation
Sensitization	Not expected
Carcinogenicity	Not classified as carcinogenic by IARC, NTP, or OSHA

## 12. Ecological Information

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

**Conclusion:** Not expected to be hazardous to aquatic organisms. Readily biodegradable. Low environmental impact.

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## 13. Disposal Considerations

- **Product Waste:** Dispose in accordance with local regulations. Not classified as hazardous.
- **Contaminated Packaging:** Clean before reuse or dispose of according to applicable laws.
- **Waste Code (EU):** 07 06 99 – Wastes not otherwise specified

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

## 16. Other Information – GMS (CAS 31566-31-1)

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