

# 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:** 1,3:2,4-DI(3',4'-DIMETHYLBENZYLIDENE)SORBITOL (Micronized)

**CAS Number:** 135861-95-5

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

Field	Information
Product Name	1,3:2,4-Di(3',4'-dimethylbenzylidene)sorbitol (Micronized)
CAS Number	135861-95-5
Relevant Identified Uses	Clarifying agent and nucleating agent in polypropylene and polyolefins
Uses Advised Against	Not for pharmaceutical, food, or medical use unless tested and approved
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
1,3:2,4-Di(3',4'-dimethylbenzylidene)sorbitol	135861-95-5	Not listed	≥ 98%

### 4. First Aid Measures

- **General Advice:** No significant risk under normal industrial use.
- **Inhalation:** Move to fresh air. Get medical attention if symptoms persist.
- **Skin Contact:** Wash skin thoroughly with soap and water.

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- **Eye Contact:** Rinse immediately with clean water for several minutes. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth. Seek medical attention if symptoms occur.

## 5. Firefighting Measures

- **Extinguishing Media:** Foam, dry powder, carbon dioxide, or water spray
- **Fire Hazards:** Organic dust may form explosive mixtures in air. Combustion may produce CO, CO<sub>2</sub>, and other toxic vapors.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of dust. Use personal protective equipment.
- **Environmental Precautions:** Prevent from entering drains, surface water, or soil.
- **Clean-Up Methods:** Collect spilled material mechanically. Avoid creating dust. Dispose according to local regulations.

## 7. Handling and Storage

- **Handling:** Use in well-ventilated area. Avoid dust formation. Wear protective equipment.
- **Storage:** Keep container tightly closed in a cool, dry, and well-ventilated place. Protect from direct sunlight and moisture.

## 8. Exposure Controls / Personal Protection

Field	Information
OEL (TWA)	Not established; use general dust limits (10 mg/m <sup>3</sup> inhalable, 5 mg/m <sup>3</sup> respirable)
Engineering Controls	Use local exhaust ventilation
PPE	Dust mask (P2), safety goggles, gloves
Environmental Controls	Prevent release to the environment

## 9. Physical and Chemical Properties

Property	Value
Appearance	White to off-white fine crystalline powder
Odour	Odourless or faint

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pH	Not applicable
Melting Point	~240–250 °C
Boiling Point	Not applicable (decomposes)
Flash Point	>250 °C
Flammability	May form combustible dust
Vapour Pressure	Negligible
Relative Density	~1.15 – 1.25
Solubility in Water	Insoluble
Auto-Ignition Temperature	>400 °C
Decomposition Temperature	>270 °C
Explosive Properties	Dust explosion risk under airborne conditions
Oxidizing Properties	None

## 10. Stability and Reactivity

- **Stability:** Stable under normal storage and use conditions
- **Hazardous Reactions:** None under normal processing
- **Incompatible Materials:** Strong oxidizing agents
- **Decomposition Products:** Carbon monoxide, carbon dioxide, and aromatic vapors

## 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 by IARC, NTP, or OSHA

## 12. Ecological Information

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

**Conclusion:** Low bioaccumulation potential. Not readily biodegradable. Avoid environmental release.

## 13. Disposal Considerations

- **Product Waste:** Dispose of in accordance with local regulations. Not classified as hazardous waste.

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- **Contaminated Packaging:** Clean containers thoroughly before reuse or recycling.
- **Waste Code (EU):** 07 02 13 – Waste from manufacture of plastic additives

## 14. Transport Information

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

## 15. Regulatory Information

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

## 16. Other Information – 1,3:2,4-Di(3',4'-dimethylbenzylidene)sorbitol

- **SDS Version:** 1.0 / 2025
- **Date of Preparation:** July 2025
- **Reason for Issue:** First SDS issued for micronized 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, transport, and industrial use only. It does not constitute a product specification. Polymer Add (Thailand) Co., Ltd disclaims liability for improper use or misuse. Final responsibility remains with the user.