

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



MSDS-Safety Data Sheet

1,3:2,4-Bis-(4-methylbenzylidene)sorbitol (MDBS)

Revision Date: July 2025

Version: 1.0

Page: 1/7

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name: 1,3:2,4-Bis-(4-methylbenzylidene)sorbitol

CAS No.: 135861-56-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Clarifying agent for polyolefins such as PP, HDPE
- Used to improve transparency, stiffness, and cycle time of molded plastic parts

Details of the supplier of the safety data sheet

Company: Polymer Add (Thailand) Co., Ltd.

106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok – 10250, Thailand

Telephone: 0804531391

Email: contact@polymeradd.co.th

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical and Chemical Hazards: Not classified as hazardous

Human Health: Not classified as hazardous

Environment: Not classified as hazardous

2.2 Label elements (CLP Regulation EC No. 1272/2008)

Label elements: No pictogram, signal word, or hazard statement required

2.3 Other hazards

This substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII

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



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component 1:

- **Chemical Name:** 1,3:2,4-Bis-(4-methylbenzylidene)sorbitol
- **CAS No.:** 135861-56-2
- **EC Number:** Not available
- **Molecular Formula:** C₂₀H₂₄O₆
- **Molecular Weight:** 360.40 g/mol
- **Concentration:** Min. 99%

4. FIRST AID MEASURES

4.1 Description of first aid measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin contact:** Wash off with soap and plenty of water. Remove contaminated clothing.
- **Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Seek medical advice if symptoms occur.

4.2 Most important symptoms and effects

Mild irritation to eyes, skin, or respiratory tract

4.3 Immediate medical attention and special treatment

Treat symptomatically

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

5.2 Special hazards arising from the substance

Thermal decomposition can lead to release of carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

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



6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid dust formation. Avoid inhalation of dust. Use personal protective equipment

6.2 Environmental precautions

Do not allow product to enter drains

6.3 Methods for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid dust generation

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation. Minimize dust generation

7.2 Conditions for safe storage

Store in a cool, dry, well-ventilated place. Keep container tightly closed

7.3 Specific end uses

Used in polymer processing as clarifying agent

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No occupational exposure limits available

Personal protective equipment:

- **Eyes:** Safety glasses with side-shields
- **Skin:** Protective gloves
- **Respiratory:** Dust mask (P1 filter or equivalent) if dust is generated
- **Environmental exposure controls:** Avoid release into the environment

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



9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Powder, off-white to pale yellow
Odour	Slight characteristic
pH (1% solution in water)	Not applicable
Melting point	~245–255 °C
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not flammable
Solubility in water	Insoluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	> 400 °C
Bulk density	Approx. 300–500 kg/m ³

10. STABILITY AND REACTIVITY

- **Reactivity:** No data available
- **Chemical stability:** Stable under normal conditions
- **Hazardous reactions:** None under normal processing
- **Conditions to avoid:** Moisture, heat, ignition sources
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:** Carbon oxides

11. TOXICOLOGICAL INFORMATION

- **Acute oral toxicity:** LD50 > 2000 mg/kg (rat)
- **Skin irritation:** Not irritating
- **Eye irritation:** Slight irritation possible
- **Respiratory irritation:** Dust may cause irritation
- **Carcinogenicity / Mutagenicity / Reproductive toxicity:** No known effects
- **Sensitization:** Not known to be a sensitizer

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



12. ECOLOGICAL INFORMATION

- **Toxicity to aquatic life:** No data available
- **Persistence and degradability:** Not readily biodegradable
- **Bioaccumulative potential:** Low
- **Mobility in soil:** Low, insoluble in water
- **PBT/vPvB assessment:** Not applicable
- **Other adverse effects:** Avoid release to environment

13. DISPOSAL CONSIDERATIONS

- **Waste treatment methods:** Dispose of in accordance with local regulations
- **Contaminated packaging:** Dispose of as unused product

14. TRANSPORT INFORMATION

UN Number	Not regulated
UN Proper Shipping Name	Not dangerous goods
Transport hazard class	Not applicable
Packaging group	Not applicable
Environmental hazards	None
Special precautions	None

15. REGULATORY INFORMATION

- This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
- Not classified as hazardous under CLP

16. OTHER INFORMATION

Further information:

The information above is believed to be accurate and represents the best information currently available. However, Polymer Add (Thailand) Co., Ltd. makes no warranty, expressed or implied, with respect to such information and disclaims any liability resulting from its use.

Month of Revision: July 2025