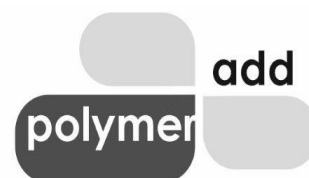


Polymer Add (Thailand) Co.,Ltd.

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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: CHLORO-DBS (Micronized)

CAS Number: 54686-94-1

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

Field	Information
Product Name	1,3:2,4-Di(p-chlorobenzylidene)-D-sorbitol (Micronized)
CAS Number	54686-94-1
Relevant Identified Uses	Clarifying agent and nucleating agent in polypropylene and other polyolefins
Uses Advised Against	Not intended 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
Factory Address	188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280
Mobile (Thai)	0804531391
Mobile (English)	0839415475
Email	contact@polymeradd.co.th

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(p-chlorobenzylidene)-D-sorbitol	54686-94-1	259-627-5	≥ 98%

4. First Aid Measures

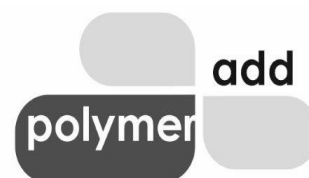
- General Advice:** No special measures required under normal conditions.
- Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.

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- **Skin Contact:** Wash skin with soap and water. Get medical advice if irritation develops.
- **Eye Contact:** Rinse thoroughly with water. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if discomfort occurs.

5. Firefighting Measures

- **Extinguishing Media:** Foam, dry powder, CO₂, or water spray
- **Fire Hazards:** Organic dust may form explosive mixtures in air. May release CO, CO₂, HCl, and chlorinated compounds on combustion.
- **Protective Equipment:** Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use appropriate PPE (mask, gloves, goggles).
- **Environmental Precautions:** Prevent material from entering drains or natural water sources.
- **Clean-Up Methods:** Sweep or vacuum carefully without generating airborne dust. Dispose of in accordance with local regulations.

7. Handling and Storage

- **Handling:** Use in well-ventilated areas. Avoid creating dust and contact with eyes and skin.
- **Storage:** Store in tightly sealed containers in a cool, dry, and well-ventilated place. Keep away from oxidizing agents.

8. Exposure Controls / Personal Protection

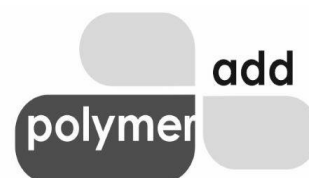
Field	Information
OEL (TWA)	No specific limits; follow general nuisance dust standards (10 mg/m ³ inhalable, 5 mg/m ³ respirable)
Engineering Controls	Use local exhaust ventilation
PPE	Dust mask (P2), safety goggles, gloves
Environmental Controls	Avoid uncontrolled release to the environment

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9. Physical and Chemical Properties

Property	Value
Appearance	White to slightly off-white crystalline powder
Odour	Odourless or faint aromatic
pH	Not applicable
Melting Point	~250 – 260 °C
Boiling Point	Not applicable (decomposes)
Flash Point	>250 °C
Flammability	Combustible as fine dust
Vapour Pressure	Negligible
Relative Density	~1.2 – 1.3
Solubility in Water	Practically insoluble
Auto-Ignition Temperature	>400 °C
Decomposition Temperature	>270 °C
Explosive Properties	Dust may pose explosion risk in air
Oxidizing Properties	None

10. Stability and Reactivity

- **Stability:** Stable under normal handling and storage conditions.
- **Hazardous Reactions:** None known.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** CO, CO₂, hydrochloric acid vapors, chlorinated organics.

11. Toxicological Information

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

12. Ecological Information

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

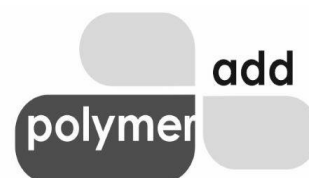
Conclusion: Low water solubility. Not expected to pose acute environmental hazards. Avoid direct release to the environment.

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13. Disposal Considerations

- **Product Waste:** Dispose of according to local/national regulations. Avoid release to the environment.
- **Contaminated Packaging:** Rinse thoroughly and recycle or dispose of as appropriate.
- **Waste Code (EU):** 07 02 13 – Waste from manufacturing of plastic additives

14. Transport Information

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

15. Regulatory Information

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

16. Other Information – 1,3:2,4-Di(p-chlorobenzylidene)-D-sorbitol

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

Abbreviations:

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

LD₅₀ – Median Lethal Dose

EC₅₀ – Half Maximal Effective Concentration

Disclaimer:

This SDS is intended for safe handling, transport, and storage of the product under industrial use. It is not a specification sheet. Polymer Add (Thailand) Co., Ltd does not accept liability for misuse or deviation from recommended applications.