

Safety Data Sheet

1,3:2,4-DIBENZYLIDENE SORBITOL

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NUMBER

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

1.1 Product identifiers

Chemical Name	1,3:2,4-DIBENZYLIDENE SORBITOL
CAS NO.	19046-64-1

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

1. Can be used as nucleating agent.
2. DBS is used in asymmetric synthesis as a chiral auxiliary, which helps in the formation of enantiomerically pure compounds. It has been used in several reactions like Diels-Alder reactions, aldol reactions, Michael additions, and many more.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
 106, Chalaremprikiat, Lor 9, Soi 22, Yak
 5, Nongbon, Prawet, Bangkok
 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
Human Health	not classified
Environment	not classified

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Signal word	not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing.

2.3 Other hazards	s Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.
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3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name	1,3:2,4-Bis(O-benzylidene)-D-sorbitol
CAS NO	19046-64-1
EC Number	

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Molecular Formula C20H22O6

Molecular Weight 358.39

Concentration

4 FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

In case of eye contact Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

If swallowed Wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for additional information on health hazards

4.3 Indication of any immediate medical attention and special treatment needed

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

5.2 Special hazards arising from the substance or mixture Wear a self-contained breathing apparatus and chemical protective clothing.

5.3 Advice for firefighters Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely

5.4 Further information

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation

6.2 Environmental precautions

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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3 Methods and materials for containment and cleaning up

not available

6.4 Reference to other sections

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure.

Remove contaminated clothing and wash before reuse. Wash thoroughly after handling

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

store at 10°C - 25°C

7.4 Specific end use(s)

No data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure control

Does not contain any substances with occupational exposure limits

Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA

Hands protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure

Respiratory protection

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Control of environmental exposure

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

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9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	White powder
b) Odour	no data available
c) Odour Threshold	no data available
d) pH (% solution in water)	no data available
e) Melting point/freezing point	200-215
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid or gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Autoignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

9.2 Other safety information

10 STABILITY AND REACTIVITY

10.1 Reactivity	no data available
10.2 Chemical stability	no data available
10.3 Possibility of hazardous reactions	no data available
10.4 Conditions to avoid	incompatible materials
10.5 Incompatible materials	strong oxidizers
10.6 Hazardous decomposition products	carbon dioxide (CO ₂), carbon monoxide

11 TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects

Acute toxicity	No data available
Acute oral toxicity	No data available
Acute Inhalation toxicity	No data available
Acute dermal toxicity	No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	
Biodegradation	
No data available	
12.3 Bio accumulative potential	No data available
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	No data available
12.6 Other adverse effects	No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods

14.2 UN proper shipping name

ADR/RID	IMDG	IATA
Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA
Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods

14.4 Packaging group

ADR/RID	IMDG	IATA
Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods

14.5 Environmental hazards



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ADR/RID

IMDG Marine pollutant

IATA

Not Dangerous Goods

Not Dangerous Goods

Not Dangerous Goods

14.6 Special precautions for user

15 REGULATORY INFORMATION

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

not available

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027