

Safety Data Sheet
According to Hazard Communication Standard (29 CFR 1910.1200)

Dipentaerythritol

Version 1.1

Issue date: 29/05/2026

SDS record number: CSSS-TCO-010-151738

1. Identification

Product name Dipentaerythritol

Synonyms -

CAS # See section 3

Product code -

Product use -

Manufacturer/Supplier

Supplier(Manufacturer): PUYANG PENGXIN CHEMICAL CO., LTD.

Address: WEST SECTION OF SHENGLI ROAD, PUYANG CITY, HENAN, P.R.CHINA.

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2. Hazard(s) identification

GHS classification

Physical hazards Not classified

Health hazards Not classified

Environmental hazards Not classified

GHS label elements

Hazard Pictograms No hazard pictogram is used.

Signal word No signal word is used.

Hazard statement Not applicable.

Precautionary statement

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Other hazards Not available.

3. Composition / information on ingredients

Components	CAS#	Percent
Dipentaerythritol	126-58-9	≥85%
Pentaerythritol	115-77-5	≤5%
TRIPENTAERYTHRITOL	78-24-0	≤10%

4. First-aid Measures

First aid procedures

Eye contact None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.

Skin contact None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

Inhalation None expected to require first aid measures. If breathed in, remove victim to fresh

air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.

Ingestion

Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

Notes to physician

Treat symptoms.

5. Fire-fighting measures

Flammable properties

Not available.

Extinguishing media

Suitable extinguishing media

Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media

Not available.

Firefighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

Hazardous combustion products

Oxides of carbon.

6. Accidental release measures

Personal precautions

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin and eyes. For personal protection see section 8.

Environmental precautions

Avoid disposing into drainage/sewer system or directly into the aquatic environment.

Methods for cleaning up

Sweep up and shovel into suitable containers. Clean up affected area.

7. Handling and storage

Handling

Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls / personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Pentaerythritol (CAS115-77-5)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	
Pentaerythritol (CAS115-77-5)	TWA	10 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Pentaerythritol (CAS115-77-5)	TWA	5 mg/m ³	Respirable.
		10 mg/m ³	Total

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

Use in a well-ventilated area.

Individual protection measures, such as personal protective equipment:

Eye / face protection

No special requirements.

Skin protection	No special requirements. Wear gloves if necessary.
Respiratory protection	No special requirements.
General hygiene considerations	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state	Solid powder
Form	Crystalline
Color	White
Odor	Not available
Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Melting point/Freezing point	215 °C (CAS#126-58-9)
initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Density	1.36 (20 °C) (CAS#126-58-9)
Solubility (water)	2.4 g/L (20 °C) (CAS#126-58-9)
Partition coefficient	log Pow: -1.8 (23 °C) (CAS#126-58-9)
Auto-ignition temperature	> 400 °C (CAS#126-58-9)
Decomposition temperature	373 °C (CAS#126-58-9)
Specific gravity	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available
Upper/lower explosive limits	Not available
Surface tension	71 mN/m (20 °C) (CAS#126-58-9)

10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong oxidizing agents. Strong bases.
Hazardous decomposition products	Oxides of carbon.
Possibility of hazardous reactions	No dangerous reactions known.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Material name: Dipentaerythritol
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Non-human toxicological data:	Not available
Information on toxicological effects:	
Acute toxicity:	
Dipentaerythritol (CAS#126-58-9):	
LD50(Oral, Rat):	> 2000 mg/kg bw
LD50(Dermal, Rat):	Not available
LC50(Inhalation, Rat):	> 5.07 mg/L 4 h
Skin corrosion/Irritation:	Not classified.
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

12. Ecological information

Toxicity:

Dipentaerythritol (CAS#126-58-9):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 100 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 100 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	No known significant effects or critical hazards.

13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Basic shipping requirements:

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No

IATA

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated

Packing group Not regulated

Environmental hazards No

IMDG

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard class(es) Not regulated

Packing group Not regulated

Environmental hazards No

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

16. Other information, including date of preparation or last revision

HMIS® ratings Health: 0 Flammability: 1 Physical hazard: 0

NFPA ratings Health: 0 Flammability: 1 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

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