

Dipentaerythritol hexaacrylate

2025.03.01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Dipentaerythritol hexaacrylate

Product Number : /

Brand : /

CAS-No. : 29570-58-9

1.2 Details of the supplier of the safety data sheet

Company : Yixing Wencheng Chemical Co., Ltd.
CANGPU village, Yicheng street, Yixing City,
Jiangsu Province, China

Telephone : +86 0510 87501824

Fax : +86 0510 87501824

1.3 Emergency telephone

Emergency Phone # : +86 0510 87501824

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

Identified uses : For R&D and industrial use only. Not for pharmaceutical, household or other uses.

SECTION 2: Hazards identification

Summary of emergency

May cause skin allergic reaction. Causing serious eye irritation. It is harmful to aquatic organisms and has long-term and lasting effects.

2.1 GHS Classification

Skin sensitization, Sub-category 1A

Eye irritation, Category 2

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction

H319

Causes serious eye irritation

H412

Harmful to aquatic life with long lasting effects Precautionary statement(s)

Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P264	Wash ... thoroughly after handling.
P273	Avoid release to the environment.
Response	
P302+P352	IF ON SKIN: Wash with plenty of water/...
P333+P317	If skin irritation or rash occurs: Get medical help.
P321	Specific treatment (see ... on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	none
Disposal	
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Physical and chemical hazards
no data available

2.4 Health hazards

H319 Causes serious eye irritation.

2.5 Environmental hazards

H412 Harmful to aquatic life with long lasting effects Precautionary statement(s)

SECTION 3: Composition/information on ingredients

Substance / Mixture : Substance

3.1 Substances

Formula : C₂₈H₃₄O₁₃
CAS-No. : 29570-58-9

Hazardous ingredients

Component	Classification	Concentration
Dipentaerythritol hexaacrylate		
	Serious eye damage/eye irritation Category 2A; Skin irritation Category 1; Long-term (chronic) aquatic hazard Category 3; H319, H317, H412	≥ 80 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: Rinse your mouth and do not induce vomiting. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

4.4 Notes to physician

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon

oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes.

Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Biological limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flamm resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state	liquid
b) Color	colorless or yellowish
c) Odor	No data available
d) Melting point/freezing point	No data available
e) Initial boiling point and boiling range	640.7°C at 760 mmHg
f) Flammability (solid, gas)	No data available
g) Upper/lower flammability or explosive limits	No data available
h) Flash point	266.2°C
i) Autoignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	No data available
l) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: 4000-9000 mPa.s at 25 °C
m) Water solubility	No data available
n) Partition coefficient: n-octanol/water	No data available
o) Vapor pressure	No data available
p) Density Relative density	1.178g/cm ³ at 25 °C - lit.
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	No data available
t) Oxidizing properties	none
u) Acid value	≤0.3 mgKOH/g

SECTION 10: Stability and reactivity

10.1 Chemical stability

The product is stable when stored and used at normal ambient temperature.

10.2 Possibility of hazardous reactions

No data available

10.3 Conditions to avoid

Keep away from direct sunlight. Heat.
no information available

10.4 Incompatible materials

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available

Inhalation: No data
available

Dermal: No data available

Skin corrosion/irritation

no data available

Serious eyedamage/eye irritation

no data available

Respiratory or skin sensitization

No data available

Germ cell

mutagenicity No data
available

Carcinogenici

ty No data
available

Reproductive

toxicity No data
available

Specific target organ toxicity - single exposure No
data available

Specific target organ toxicity - repeated exposure No
data available

Aspiration

hazard No data
available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish no data available

Toxicity to daphnia and other aquatic invertebrates: no data

available Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2 Persistence and degradability

Biodegradability
No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

