

# Material Safety Data Sheet (MSDS)

## International (GHS)

### PENTAERYTHRITOL

#### Section 1 - Identification

**Product identifiers:****Product trade Name:** Pentaerythritol**CAS No.:** 115-77-5**Other means of identification:** Pentaerythritol in stock Factory; 2,2-bis(hydroxymethyl)-3-propanediol**Recommended use of the chemical and restrictions on use:****Uses:** Industrial use. Professional use. (eg: Mainly used in the production of alkyd resin, but also used as raw materials for the manufacture of inks, lubricants, plasticizers, surfactants, explosives and drugs)**Restrictions on use:** None identified**Details of the supplier:****Manufacturer/Supplier:** Wuhan Biet Co.,Ltd.**Address:** Room 1004, Block V, Wuhan Furniture Plaza, Qiaokou District, Wuhan, Hubei, China 430000.**For information,** call: +86 27 8369 8488**For technical support,** call: +86 27 8369 8488**For emergencies in China,** call: 112

#### SECTION 2 HAZARDS IDENTIFICATION

**Hazards Identification:**

According to GHS

Physical hazards: Not classified

Health hazards: Not classified

Environmental hazards: Not classified

**Emergency Overview:**

To the best of our knowledge, information and data, we have not yet known the health and environmental hazards.

#### SECTION 3 INFORMATION ON INGREDIENTS

**Product name:** PENTAERYTHRITOL; MONOPENTAERYTHRITOL; PENTAERYTHRITOL 98%

<b>Ingredient</b>	<b>Concentration</b>	<b>CAS No.</b>	<b>EC No.</b>
Pentaerythritol	≥95%	115-77-5	204-104-9
Dipentaerythritol	≤5%	126-58-9	204-794-1



## SECTION 4 FIRST-AID MEASURES

### Skin Exposure:

In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists call a caphysician.

### Eye Exposure:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

### Inhalation Exposure:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### Oral Exposure:

If swallowed, immediately wash out mouth with water provided person is conscious. Call a physician.

## SECTION 5 FIRE FIGHTING MEASURES

### Extinguishing Media:

Suitable: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

### Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Procedure of Personal Precaution:

Use personal protective equipment. Keep people away from and upwind of spi U/leak. Ensure adequate ventilation. Avoid breathing dust. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

### Methods for Cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Environmental precautions:

Do not let product enter drains.

## SECTION 7 HANDLING AND STORAGE

### Handling:

Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid formation of dust.



Avoid contact with eyes, skin and clothing. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides. Wash hands and face thoroughly after handling. No smoking at working site.

**Storage:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Incompatible: Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides.

**SECTION 8 EXPOSURE CONTROL/PPE****Engineering Controls:**

Mechanical exhaust required. Safety shower and eye bath.

**Personal Protective Equipment:**

Respiratory: Government approved respirator if needed.

Eye: Chemical safety goggles if needed.

Clothing: Wear appropriate protective clothing.

Hand: Protective gloves.

**Other Protect:**

No smoking, drinking and eating at working site. Wash thoroughly after handling.

**SECTION 9 PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** White powder

**Odor:** Weak odor

**Melting Point/°C:** >300°C

**pH Value:** 7.5-7.6

**Solubility:** Weak soluble in water

**SECTION 10 STABILITY AND REACTIVITY****Stability:**

Stable under normal temperatures and pressures.

**Materials to Avoid:**

Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides.

**Hazardous Polymerization:**

Will not occur.

**Hazardous Decomposition Products:**

Carbon oxides.

**SECTION 11 TOXICOLOGICAL INFORMATION****Acute toxicity:**

Pentaerythritol: Rat Oral LD<sub>50</sub>: 19500mg/kg

**Skin corrosion/irritation:** No data available.

**Serious eye damage/irritation:** No data available.



## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity:

Pentaerythritol:

Toxicity to fish semi-static test LC<sub>50</sub> - *Oryzias latipes* - > 100 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates EC<sub>50</sub> - *Daphnia magna* (Water flea) - 33600 mg/l - 48h Dipentaerythritol:

Toxicity to fish semi-static test LC<sub>50</sub> - *Oncorhynchus mykiss* (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EG<sub>50</sub> - *Daphnia magna* (Water flea)- > 100 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae static test EC<sub>50</sub> - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*)- > 100 mg/l - 72 h

(OECD Test Guideline 201)

### Persistence and degradability:

Pentaerythritol: Biodegradability aerobic - Exposure time 28 d

Result: 83.7 % - Readily biodegradable

(OECD Test Guideline 310)

Dipentaerythritol: Biodegradability aerobic - Exposure time 28 d Result: 7 % - Not readily biodegradable.

(OECD Test Guideline 301A)

### Bioaccumulative potential:

No data available.

### Biobility in soil:

No data available.

## SECTION 13 DISPOSAL CONSIDERATION

### Appropriate Method of Disposal of Substance:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## SECTION 14 REGULATORY INFORMATION

Air Transport: Non-hazardous

### Regulation (EO No. 1272/2008 and the amendments):

Sea Transport: Non-hazardous

Physical hazards: Not classified

Health hazards: Not classified

Environmental hazards: Not classified