



# Green Chemicals Co., Ltd.

Address: No.6,DingLan Road, AoYang Industrial Park, FuNing,YanCheng, P.R.China  
Contact: Manager Jiang Tel: +86-515-87883661 E-mail:market@greenchem-china.com

## MATERIAL SAFETY DATA SHEET

Verison 2.0

Revision Date:05/13/2019

### 1. CHEMICAL PRODUCT & COMPANY INFORMATION

Company Information	Green Chemicals Co., Ltd No.6, DingLan Road, AoYang Industrial Park, FuNing, YanCheng, P.R.China
Phone Number:	+86-515-87883661
Email:	market@greenchem-china.com
Website:	www.greenchem-china.com/
Use:	For industrial use only

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Acute toxicity, Oral (Category 4), H302  
Skin sensitisation (Category 1), H317  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410  
For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2. GHS Label elements, including precautionary statements

Pictogram



Signal Word:

Warning

Hazard statement(s)

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.



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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents and container in accordance with local, regional, national regulations

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms:	Pentaerythritol tetrakis(3-mercaptopropionate)
Formula:	C <sub>17</sub> H <sub>28</sub> O <sub>8</sub> S <sub>4</sub>
Molecular weight	488.66 g/mol
CAS-No.	7575-23-7
EC-No.	231-472-8

### 3.2 Hazardous components

Component	Classification	Concentration
Pentaerythritol tetrakis(3-mercaptopropionate)	-	≅ 100 %

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

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Inhalation: Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Ingestion: Rinse mouth with water. Do not induce vomiting. Never give



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anything by mouth to an unconscious person. Call a doctor or  
Poison Control Center immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing Media: Use dry chemical, carbon dioxide or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No data available

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  
For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

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.

Store under nitrogen.

Storage class (TRGS 510): Non Combustible Liquids



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### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal Protective Equipment:	
Eye/Face Protection:	Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).
Skin Protection:	Wear fire/flare 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. Wash and dry hands.
Body Protection:	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection:	If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.
Control of environmental exposure:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	clear, viscous liquid
Color:	colourless
Odor:	Stench.
Initial boiling point and boiling range:	275 °C
Freezing/Melting Point:	N/A
Water solubility :	N/A
Vapor Density:	N/A
Vapor Pressure:	N/A
Relative density:	1.28 g/cm <sup>3</sup> at 25 °C
Specific Gravity:	N/A
Viscosity:	N/A
PH:	N/A
Partition Coefficient (Octanol/Water):	N/A
Flash point:	> 110 °C - closed cup

### 10. STABILITY AND REACTIVITY



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Chemical stability :	Stable under recommended storage conditions.
Conditions to Avoid:	No data available
Incompatible materials:	Strong oxidizing agents
Possibility of Hazardous	No data available
Hazardous decomposition products :	No data available In the event of fire: see section 5

### 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	No data available
Eye Irritation:	No data available
Skin Irritation:	No data available
Respiratory or skin sensitisation :	No data available
Carcinogenicity (IARC; NTP; OSHA; ACGIH):	No data available
Mutagenicity:	No data available
Reproductive Toxicity:	No data available
Teratogenicity:	No data available
Neurotoxicity:	No data available
Subacute Toxicity:	No data available
Subchronic Toxicity:	No data available
Chronic toxicity:	No data available
Absorption / Distribution / Excretion / Metabolism:	No data available
Additional Information:	No data available

### 12. ECOLOGICAL INFORMATION

Toxicity to Fish:	No data available
Toxicity to daphnia and other aquatic invertebrates:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment t:	No data available
Other adverse effects:	No data available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product :	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging:	Dispose of as unused product.

### 14. TRANSPORT INFORMATION



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U.S. Department of Transportation (DOT): Not dangerous goods

International Maritime Dangerous Goods (IMDG): UN number: 3082 Class: 9 Packing group: III  
 EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Pentaerythritol tetrakis(3-mercaptopropionate))

International Air Transportation Authority (IATA): Marine pollutant: Marine pollutant  
 UN number:3334 Class: 9 Packing group: III

Further information: Proper shipping name: Aviation regulated liquid, n.o.s.(Pentaerythritol tetrakis(3-mercaptopropionate))  
 EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Pentaerythritol tetrakis(3-mercaptopropionate)	Pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7	231-472-8
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

## 16. OTHER INFORMATION

### Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Green Chemicals Co.,Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.