

Material Safety Data Sheet

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Liaocheng Ruijie Chemical Co.,Ltd TaishanRd,Developzone,Liaocheng,Shandong ,China 252000 Phone:86-635-2939688	Revision number	1.1

PRODUCT NAME: PENTAERYTHRITOL TETRAOLEATE MSDS NUMBER: PETO

PRODUCT CODE: PETO

MSDS DATE: August 18,2005

1 Identification of substance:

- Product details:
- Trade name: Pentaerythritol Tetraoleate
- Application of the substance / the preparation: Lubricant/Plasticizer/Oil additive
- Supplier/Manufacturer:
Liaocheng Ruijie Chemical Co.,Ltd
TaishanRd,Developzone,Liaocheng,Shandong,China 252000
- Information department: Technology Department Phone:86-635-2939688
Fax:86-635-8378586

2 Composition/Data on components:

- Chemical characterization:
- CAS #:19321-40-5
Fatty acids esters with pentaerythritol
- Identification number(s):
- EINECS Number: 242-960-5

3 Hazards identification

- Hazard description: This product is biodegradable and is not considered hazardous under normal using conditions.

4 First aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.

5 Fire fighting measures

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure.

6 Accidental release measures

• Person-related safety precautions:

Wear protective clothing.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

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Avoid formation of dust.

• **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

• **Measures for cleaning/collecting:**

Pick up mechanically.

Ensure adequate ventilation.

Avoid dust formation absolutely. If necessary pick up with a tested and approved industrial vacuum cleaner.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

7 Handling and storage

- Handling

- Information for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed.

Do not smoke. Keep ignition sources away.

- Information about protection against explosions and fires:

Keep ignition sources away -Do not smoke.

- Storage

• Requirements to be met by storerooms and receptacles: Store at ambient temperatures and at dry conditions.

- Information about storage in one common storage facility: Not required.

- Further information about storage conditions: None.

8 Exposure controls and personal protection

- General protective and hygienic measures:

The usual precautionary measures should be adhered to when handling chemicals.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

- Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

9 Physical and chemical properties:

- General Information

APPEARANCE: Liquid

COLOR: yellow

ODOR: none

FLASH POINT, °C: > 270

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AUTO FLAMMABILITY: None

EXPLOSIVE PROPERTIES: None

OXIDIZING PROPERTIES: None

SOLUBILITY IN WATER: Negligible

VISCOSITY AT 40 °C cSt: 65~75

TOTAL ACID NUMBER, mgKOH/g: <1

POUR POINT °C , < -20

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

No decomposition if used according to specifications.

- Materials to be avoided: Oxidants
- Dangerous products of decomposition:

In the case of fire or at high temperatures the formation of the following decomposition products is possible.

Carbon monoxide and carbon dioxide

11 Toxicological information

- on the skin: No irritation
- on the eye: Eye irritation is possible after mechanical influence (dust).
- Sensitization: No sensitizing effects known.
- Experience with humans:

If used according to instructions no negative effects have been reported due to many years of experience.

12 Ecological information

- Aquatic toxicity: Presently there are no ecotoxicological values available.

13 Disposal considerations

- Recommendation: Disposal according to instructions of local authorities.

If not officially regulated non contaminated packagings can be used for recycling or treated like household garbage.

14 Transport information

- ADR/RID class: No hazardous goods according to the regulation.
- IMDG Class: No hazardous good according to the regulation.
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: No hazardous good according to the regulation.

15 Regulations

• Markings according to EC guidelines:

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals

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· **National regulations**

· **Water hazard class:**

Water hazard class 1 (Self-assessment):no hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Note: The above information is accurate to the best of our knowledge. However,Ruijie Chemical Co. makes no warranty expressed or implied with respect to this information and disclaims all liability for reliance thereon. The information and recommendations are offered for the user's consideration and examination; it is the user's responsibility to satisfy themselves that they are suitable and complete for a particular use.

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