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## MATERIAL SAFETY DATA SHEET

#### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

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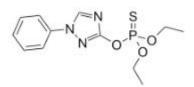
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### 1. Chemical Product Identification

Product Name: Triazophos 90% TC Molecular Formula: C<sub>12</sub>H<sub>16</sub>N<sub>3</sub>O<sub>3</sub>PS

Molecular Weight: 313.3 g/mol

Structural Formula:



Chemical Name: O,O-diethyl O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate

Form: liquid

Color: yellowish Odor: odorless

CAS No.: 24017-47-8

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Triazophos	24017-47-8	90.0
Other ingredients		10.0

#### 3. Hazards Identification

Flammable.



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Harmful by inhalation and in contact with skin.

Toxic if swallowed.

Risk of serious damage to eyes.

#### 4. First Aid Measures

General information: Remove soiled or soaked clothing immediately. Seek medical advice immediately.

After inhalation: Move the patient to fresh air and keep at rest. Do not use mouth-to-mouth or mouth-to-nose resuscitation. When vapors are intensively inhaled, seek medical advice immediately.

After contact with skin: In case of contact with skin wash off immediately with soap and water.

After contact with eyes: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion: Do not induce vomiting. Seek URGENT medical advice.

### 5. Fire-Fighting Measures

Suitable extinguishing media: Water mist foam, carbon dioxide, dry powder

Special protective equipment for firefighting: Use self-contained breathing apparatus.

Further information: Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Collect contaminated firefighting water separately, must not be discharged into the drains.

#### 6. Accidental Release Measures

Personal precautions:

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapors/dust/aerosol.

Environmental precautions:

Do not allow to enter drains or waterways.

Methods for cleaning up/taking up

Take up with absorbent material (e.g. sand, kieselguhr, universal binder).

Send in suitable containers for recovery or disposal.



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#### 7. Handling And Storage

Handling

Hints on safe handling: Provide exhaust ventilation. Observe the usual precautions for

handling chemicals.

Hints for protection against fire and explosion: Keep away from sources of ignition - refrain

from smoking. Store and handle only in the open air or in explosion-proof areas.

Storage

Requirements for storage rooms and vessels. Store in the original container only.

Hints on storage assembly: Do not store together with foodstuffs or animal feedstocks.

Do not store together with foodstuffs.

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place, open and handle carefully. Protect against moisture. Protect from

direct sunlight. Protect from warmth.

### 8. Exposure Controls / Personal Protection

General protective measures: Avoid contact with eyes and skin. Do not inhale vapors.

Cholinesterase activity of the worker should be supervised.

Hygienic measures: Observe the usual precautions when handling chemicals. Do not eat,

drink or smoke during work time. Remove soiled clothing immediately. Clean hands and

face at work intervals and after work. Store work clothing separately.

Respiratory protection: Full mask.

Hand protection: Gloves (solvent-resistant).

Eye protection: safety glasses.

Skin protection: protective clothing.

#### 9. Physical And Chemical Properties

Form: liquid

Color: yellowish

Odor: odorless

Melting point: 2-5°C

Boiling point: Decomposes before boiling

Density: 1.25 g/ml



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Vapour pressure: 1.33 m pa at 25°C

Moisture: ≤0.2%

Acidity( $H_2SO_4$ ):  $\leq 0.5\%$ 

### 10. Stability And Reactivity

Stability: Stable

Conditions to avoid: None

Incompatibility (Materials to avoid): None known

Hazardous decomposition products: Burning may yield Carbon monoxide, carbon dioxide,

nitrogen oxide, oxide phosphorus, oxide sulfur.

Hazardous polymerization: will not occur.

#### 11. Toxicological Information

Acute oral LD<sub>50</sub> for rats is 66 a.i.mg/kg.

Acute percutaneous LD<sub>50</sub> for rats is >2000 a.i.mg/kg.

Acute inhalation toxicity LC<sub>50</sub> (4 h) for rats is 0.53 a.i.mg/l.

Skin irritation: Non-irritating to skin (rabbits).

Eye irritation: Strong- irritating to eyes (rabbits).

Skin sensitization for guinea pig: Not a skin sensitiser.

#### 12. Ecological And Ecotoxicological Information

Effect on birds: high toxicity to birds, acute oral LD<sub>50</sub> for Colinus virginianus is 8.3 a.i.mg/kg.

Effect on fish: high toxicity to fish, acute 96 hour LC<sub>50</sub> for Rainbow trout is 0.038 a.i.mg/L.

Effect on aquatic invertebrates: high toxicity to aquatic invertebrates, acute 48 hour EC<sub>50</sub> for Daphnia magna is 0.0026 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC<sub>50</sub> for Scenedemus subspicatus is 9.1 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, contact acute 48 hour LD<sub>50</sub> is 59.8 a.i.μg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC<sub>50</sub> for Eisenia foetida is 466 a.i.mg/kg.



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### 13. Disposal Considerations

Waste Disposal Method

Pesticide Disposal: Pesticides that cannot be used according to label must be disposed of according to applicable Federal, State and local regulations.

Container Disposal: Container may be triple rinsed then offered for recycling or reconditioning, or punctured and disposed of in a sanitary landfill or by other approved State and local procedures.

### 14. Transport Information

Not applicable

#### 15. Regulatory Information

Not applicable

#### 16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.