



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,  
WENZHOU ZHEJIANG P.R. CHINA

Tel: +86-577-88905587

Fax: +86-577-88905567

Email: info@rayfull.com

sales@rayfull.com

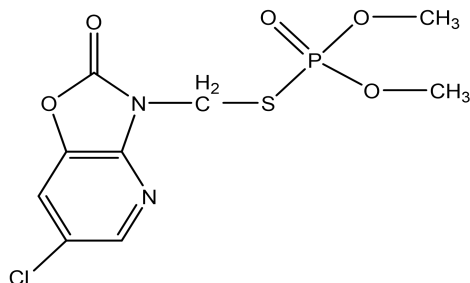
### 1. Chemical Product Identification

Product Name: Azamethiphos 98% TC

Molecular Formula:  $C_9H_{10}ClN_2O_5PS$

Molecular Weight: 324.68

Structural Formula:



Chemical Name: S-6-chloro-2,3-dihydro-2-oxo-1,3-oxazolo[4,5-b]pyridin-3-ylmethyl  
O,O-dimethyl phosphorothioate (IUPAC)

Form: Crystalline solid

Color: Off-white

Odor: Special foul odor.

CAS No: 35575-96-3

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Azamethiphos	35575-96-3	98.0
Other ingredients		2.0



---

### **3. Hazards Identification**

May be fatal if swallowed. Harmful if absorbed through skin. Cause substantial but temporary eye injury.

### **4. First Aid Measures**

If you have breathing problems or if you have felt persistently unwell after using a product containing an organophosphorus compound, you should consult your doctor before working with Azamethiphos. In case of accident or if you feel unwell, seek medical advice immediately. Tell the doctor you have been using Azamethiphos which contains azamethiphos, an organophosphorus compound.

**Ingestion:** In the case of ingestion, gastric aspiration followed by lavage should be preferably performed within 1 hour of ingestion. Activated charcoal may be effective for organophosphorus pesticides.

**Inhalation:** In massive overdoses, acute respiratory failure may occur. It is important to keep the airway open and to prevent spiration if nausea and vomiting occur. Oxygen should be administered early if necessary. The patient must be watched constantly and respiratory support should be instituted if necessary.

**Eye Contact:** Wash eyes for 15 to 20 minutes with running water. And then go to see the doctor immediately.

**Skin Contact:** The area should be washed carefully with soap and water. First-aid personnel should wear rubber or plastic gloves to avoid contamination, which should be changed frequently.

### **5. Fire-Fighting Measures**

**Extinguishing media:**

**Suitable:** Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. Specific

**Hazard(s):** Emits toxic fumes under fire conditions.

**Specials protective equipment for firefighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### **6. Accidental Release Measures**

**Procedure(s) of personal precaution(s) :**



---

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for cleaning up:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## **7. Handling And Storage**

Handling: Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage: Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room.

## **8. Exposure Controls / Personal Protection**

Personal protective equipment

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield.

Industrial hygiene: Adequate ventilation.

## **9. Physical And Chemical Properties**

Appearance: Off-white crystalline Solid

Melting point: 89~90°C (a.i.)

Boiling point: Decomposes before boiling.

Flash point: 150°C

Density: approx. 1.60 g/cm<sup>3</sup> at 20°C

Water solubility: 1.1 g/L in water at 20°C.

Organic solubility: 610 g/L in Dichloromethane, 130 g/L in Benzene, 100 g/L in Methanol, 5.8 g/L in n-Octanol, at 20°C.

Vapour pressure: 0.0049×10<sup>-3</sup> pa at 20°C.

pH: Not applicable .

## **10. Stability And Reactivity**

Stability: Stable at room temperature.



---

Hazardous polymerization: Will not occur.

Conditions to avoid: Oxidizing agents.

Combustion products of dry material: Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides, Hydrogen chloride gas, Sulfur oxides, Hydrogen sulfide gas, Phosphorous oxides.

## **11. Toxicological Information**

Acute oral LD<sub>50</sub> for rats is 1180 mg/kg.

Acute dermal LD<sub>50</sub> for rats is >2150 mg/kg.

Acute inhalation toxicity LC<sub>50</sub> (4 h) for rats is >0.56 mg/l.

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

Eye irritation: Slightly irritating to eyes (rabbits).

Skin sensitization for guinea pig: Not a skin sensitiser.

## **12. Ecological And Ecotoxicological Information**

Effect on birds: Acute oral LD<sub>50</sub> for Bobwhite quail is >30.2 mg/kg.

Effect on fish: Acute LC<sub>50</sub> (96 h) for Rainbow trout is >0.115 mg/l.

Effects on aquatic invertebrates: Acute EC<sub>50</sub> (48 h) for Daphnia magna is 0.00067 mg/l.

Effects on bees: Contact acute (48 h) LD<sub>50</sub> is >0.10 µg/bee.

## **13. Disposal Considerations**

Disposal: 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 an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## **14. Transport Information**

hazard class: 9

UN Number: 3077

Packing group: III

## **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.