

Tel: +86-577-88905587,88908857 Fax: +86-577-88905567 EMAIL: info@rayfull.com sales@rayfull.com

## **MATERIAL SAFETY DATA SHEET**

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

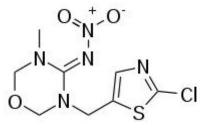
ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT, WENZHOU ZHEJIANG P.R. CHINA Tel: +86-577-88905587 Fax: +86-577-88905567

Email: info@rayfull.com

sales@rayfull.com

## 1. Chemical Product Identification

Product Name: Thiamethoxam 98% TC Molecular Formula: C<sub>8</sub>H<sub>10</sub>ClN<sub>5</sub>O<sub>3</sub>S Molecular Weight: 291.71 g/mol Structural Formula:



Chemical Name:

(EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine Form: Powder

Colour: Pale yellow to white

CAS No.: 153719-23-4

## 2. Composition / Information On Ingredients

Composition	Chemical name	Content (% w/w)
Active ingredient	Thiamethoxam	98%
Other ingredient		2%



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#### 3. Hazards Identification

More important danger for the man: none Dangers for the environment: high toxic to honeybees. Physical-chemical dangers: none.

#### 4. First Aid Measures

Skin: wash thoroughly with soap and water.

Eyes: flush with plenty of water for at least 15 minutes.

Inhalation: move to fresh air.

Ingestion: Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear.

#### 5. Fire-Fighting Measures

Extinguishing media

To be used: Water, sand, foam, carbon dioxide, dry powder

Don't use: not applicable

Particular risk: not applicable

Measures of personal protection: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

#### 6. Accidental Release Measures

Personal cautions: Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Cleaning methods

EX: 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.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

### 7. Handling And Storage

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



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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: goggles Industrial hygiene: not applicable

### 9. Physical And Chemical Properties

Appearance: Pale yellow to white Density: 1.57 g/ml Acidity:  $\leq 0.5\%$ Melting Point: 139.1°C Boiling point: Decomposes before boiling Partition Coefficient: log P= -0.13 Vapour pressure:  $6.60 \times 10$ -9 Pa (25°C) Solubility: Slightly soluble in water: 41 g/l at 20°C; Soluble in other Solvents: acetone 48 g/l, methanol 13 g/l.

### 10. Stability And Reactivity

Conditions to avoid: fire, feed, food and beds of water Products to avoid: Acid,alkalis and strong oxidizers Thermal decomposition: not applicable Hazardous decomposition products: not applicable Hazardous reaction: none

### 11. Toxicological Information

Acute oral LD<sub>50</sub> (rat): >1563 a.i. mg/kg Acute dermal LD<sub>50</sub> for rats: >2000 a.i. mg/kg Acute inhalation toxicity:LC<sub>50</sub> (4h) for rat: 3.72 a.i.mg/l



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Skin irritation: Non irritating for rabbits Eye irritation: Non irritating for rabbits Skin Sensitization: Non-sensitive (Guinea Pig)

## 12. Ecological And Ecotoxicological Information

Effects on bees: Oral acute 48 hour  $LD_{50}$  is 0.024 a.i.µg/bee Effects on fish: Acute 96 hour  $LC_{50}$  for Rainbow trout is >100 a.i.mg/l Effect on Aquatic invertebrates: Acute 48 hour  $EC_{50}$  for Daphnia magna: >100 a.i.mg/l Effects on birds: Acute oral  $LD_{50}$  for Japanese quail is 1552 a.i.mg/kg Effect on Algal: Acute 72 hour  $EC_{50}$  is >100 a.i.mg/l

### 13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Packs that cannot be cleaned should be disposed of in the same manner as the contents. Contaminated packaging should be emptied as far as possible and disposed of in accordance with official regulations after being thoroughly cleaned.

Uncontaminated packaging may be treated as household waste.

#### 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



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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.