

# SAFETY DATA SHEETS

## Thiamethoxam 98%TC

No.: 111035  
Version: 4  
Date: April, 2022

### SECTION 1: IDENTIFICATION

|                               |   |
|-------------------------------|---|
| Product identifier            | Thiamethoxam 98%TC  |
| Other means of identification | N/A   |
| Recommended use               | Insecticide   |
| Supplier's details            | Zhejiang Heben Pesticide & Chemicals Co., Ltd                             |
| Address                       | Liandun Road, Houjing, Yanjiang Industrial Area, Wenzhou, Zhejiang, China |
| Telephone No                  | +86-577-88797730; +86-577-88797721  |
| Fax No.                       | +86-577-88797739  |
| E-mail                        | info@hb-p.com   |
| Emergency phone number        | +86-532-83889090  |

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 GHS classification of the substance or mixture (Ninth Revised Edition, 2021)

|                       |  |      |
|-----------------------|--|------|
| Physical hazards      | None   | None |
| Health hazards        | Acute toxicity, oral, Category 4                                 | H302 |
| Environmental hazards | Very toxic to aquatic life with long lasting effects, Category 1 | H410 |

#### 2.2 GHS label elements, including precautionary statements

Hazard pictograms



Signal word

Warning

Hazard statement (s)

H302

Harmful if swallowed

H410

Very toxic to aquatic life with long lasting effects

### Prevention statements

|      |  |
|------|--|
| P264 | Wash hands and face thoroughly after handling      |
| P270 | Do not eat, drink or smoke when using this product |
| P273 | Avoid release to the environment                   |

### Response statements

|           |                                 |
|-----------|---------------------------------|
| P301+P317 | IF SWALLOWED: Get medical help. |
| P330      | Rinse mouth                     |
| P391      | Collect spillage                |

### Storage statements

|      |      |
|------|------|
| None | None |
|------|------|

### Disposal statements

|      |   |
|------|---|
| P501 | Dispose of contents/container to LOCAL REGULATION |
|------|---|

### 2.3 Other hazards which do not result in classification

No other hazards known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Common name, synonyms           | Chemical identity  | CAS number and other unique identifiers | The concentrations of the ingredients |
|---------------------------------|--|---|---------------------------------------|
| Thiamethoxam                    | 3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine (IUPAC) | CAS No.: 153719-23-4;<br>EC No.:N/A     | ≥ 98.0%                               |
| Other non-hazardous ingredients |  |   | < 2.0%                                |

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of necessary first-aid measures

**Skin:** Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

**Eyes:** For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with normal saline during transport.

**Inhalation:** Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

**Ingestion:** Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

#### **4.2 Most important symptoms/effects, acute and delayed**

No such information is reported.

#### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

No antidote, no special treatment, please treat it symptomatically.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **5.1 Suitable extinguishing media**

Use dry chemical, carbon dioxide, water spray, and foam.

#### **5.2 Specific hazards arising from the chemical**

May produce toxic fumes of carbon monoxide, and oxides of nitrogen if burning.

#### **5.3 Special protective equipment for firefighters**

Should wear full-protective clothing, and self-contained breathing apparatus. Fight fire from safe distance and protected location. Avoid (reject) fire-fighting water to enter environment.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

In the event of major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Though launder protective clothing before storage or re-use. Stop leak is safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage.

#### **6.2 Environmental precautions**

After spills, wash area, preventing runoff from entering drains.

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

If there is contamination of crops or waterways, advise emergency services or state department of agriculture.

### **SECTION 7: HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

Avoid direct or prolonged contact with skin and eyes. Do not breathe dust. Do not breathe vapors and mists. Do not ingest. It is recommended that wear full protective clothing including face mask, face shield and gauntlets, all skin areas should be covered, when handling this product.

Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. And take a bath or wash hands completely with soap after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Contain no substances with occupational exposure limit values.

### 8.2 Appropriate engineering controls

Use only in an enclosed system. Use local exhaust ventilation. Safety shower. Use explosive dust handling controls.

### 8.3 Individual protection measures

**Industrial hygiene:** Remove and wash contaminated clothing promptly. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

#### Personal protective equipment

##### Respiratory protection:

Wear respirator with a particle filter mask (protection factor 20) conforming to European Norm EN149FFP3 or EN140P3 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Protective gloves:** rubber gloves;

**Eye protection:** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |                                  |
|--|----------------------------------|
| Physical state   | Solid                            |
| Color  | White                            |
| Odor   | Characteristic odor              |
| Melting point / freezing point                           | 139.1 °C                         |
| Boiling point or initial boiling point and boiling range | Decompose before boiling         |
| Flammability   | Not highly flammable             |
| Lower and upper explosion limit/ flammability limit      | No information                   |
| Flash point  | Not expected to self ignite      |
| Auto-ignition temperature                                | Not expected to self ignite      |
| Decomposition temperature                                | 147 °C                           |
| pH value   | Not determined                   |
| Kinematic viscosity                                      | Not applicable                   |
| Solubility   | In water 4.1 g/l (25 °C).        |
| Partition coefficient n-octanol/water (log value)        | logP = -0.13 (25 °C)             |
| Vapour pressure  | $6.6 \times 10^{-6}$ mPa (25 °C) |

|                                 |                  |
|---------------------------------|------------------|
| Density and/or relative density | 1.24g/ml (25 °C) |
| Relative vapor density          | Not applicable   |
| Particle characteristics        | Not known        |

## 9.2 Other information

Further safety related physical-chemical data are not known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No reactivity under normal conditions.

### 10.2 Chemical stability

This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Avoid fire, feed, food and beds of water.

### 10.5 Incompatible materials

Not compatible with strong oxidizing agents.

### 10.6 Hazardous decomposition products

Formation of toxic gases is possible during heating or in case of fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

|  |  |
|--|--|
|  | Acute oral LD <sub>50</sub> for rat 1563 mg/kg ( <i>Data From The e-pesticide manual (Thirteenth Edition) Version 3.0</i> )                          |
|  | Acute dermal LD <sub>50</sub> for rats >2000 mg/kg ( <i>Data From The e-pesticide manual (Thirteenth Edition) Version 3.0</i> )                      |
|  | Acute inhalation LC <sub>50</sub> (4h) for rats >3720 mg/m <sup>3</sup> ( <i>Data From The e-pesticide manual (Thirteenth Edition) Version 3.0</i> ) |
| <b>Acute toxicity</b>                    |  |
| <b>Skin corrosion/irritation</b>         | Not irritant to skin (Rabbit) ( <i>Data From The e-pesticide manual (Thirteenth Edition) Version 3.0</i> )   |
| <b>Serious eye damage/irritation</b>     | Not irritant to eyes. (Rabbit) ( <i>Data From The e-pesticide manual (Thirteenth Edition) Version 3.0</i> )  |
| <b>Respiratory or skin sensitization</b> | Not a skin sensitizer ( <i>Data From The e-pesticide manual (Thirteenth Edition) Version 3.0</i> )   |
| <b>Germ cell mutagenicity</b>            | No information   |

|                               |   |
|-------------------------------|---|
| <b>Carcinogenicity</b>        | No carcinogenic potential. (Data from PPDB)   |
| <b>Reproductive toxicity</b>  | Known not to cause a problem (Data from PPDB) |
| <b>STOT-single exposure</b>   | No available data.                            |
| <b>STOT-repeated exposure</b> | No available data.                            |
| <b>Aspiration hazard</b>      | No information                                |
| <b>Further information</b>    | No available data.                            |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Eco-toxicity

|                |  |
|----------------|--|
| <b>Birds</b>   | Acute oral LD <sub>50</sub> for bobwhite quail 1552, mallard ducks 576 mg/kg. Dietary LC <sub>50</sub> for bobwhite quail and mallard ducks >5200 mg/kg. (The e-pesticide manual (Thirteenth Edition) Version 3.0) |
| <b>Fish</b>    | LC <sub>50</sub> (96 h) for rainbow trout >100, bluegill sunfish >114, sheepshead minnow >111 mg/l. (The e-pesticide manual (Thirteenth Edition) Version 3.0)  |
| <b>Daphnia</b> | EC <sub>50</sub> (48 h) >100 mg/l. (The e-pesticide manual (The e-pesticide manual (Thirteenth Edition) Version 3.0)   |
| <b>Algae</b>   | EC <sub>50</sub> (96 h) for green algae >100 mg/l. (The e-pesticide manual (Thirteenth Edition) Version 3.0)   |
| <b>Bees</b>    | LD <sub>50</sub> for honeybees (contact) 0.024 µg/bee. (The e-pesticide manual (Thirteenth Edition) Version 3.0)   |
| <b>Worms</b>   | LC <sub>50</sub> (14 d) >1000 mg/kg soil. (The e-pesticide manual (Thirteenth Edition) Version 3.0)  |

### 12.2 Persistence and degradability

Moderate persistent in soil degradation.

### 12.3 Bio-accumulative potential

Low risk

#### **12.4 Mobility in soil**

Mobile.

#### **12.5 Other adverse effects**

None

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **13.1 Product**

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

#### **13.2 Contaminated packaging**

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

### **SECTION 14: TRANSPORT INFORMATION**

#### **IMO/IMDG:**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S  
(Thiamethoxam 98%)

UN NO. 3077

Class: 9

Packing group: III

### **SECTION 15: REGULATORY INFORMATION**

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

WHO-classification: NL(Not listed)

This product is not subject to any prohibitions or restrictions in China.

### **SECTION 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 produces 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.

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