

MATERIAL SAFETY DATA SHEET OF

THIAMETHOXAM 98% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

Street address: Room 1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

FAX: +86 21 63065878

TEL: +86 21 63065878

Product name: Thiamethoxam 98% TC

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity, Hazard Category 4

Hazardous to the aquatic environment – Acute Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

GHS label elements, including precautionary statements

Pictograms



Signal word : Warning

Hazard statement(s)

H302: Harmful if swallowed.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

Response

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P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P391: Collect spillage.

Storage

none

Disposal

P501: Dispose of contents/container at designated place

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Technical grade

Active Ingredients: Thiamethoxam

Chemical Abstracts name:

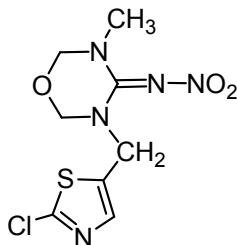
3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro-4H-1,3,5-oxadiazin-4-imine

CAS NO. : 153719-23-4

Molecular Formula: C₈H₁₀ClN₅O₃S

Molecular Weight: 291.7

Structural Formula:



Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION
Thiamethoxam	153719-23-4	98% min.
Inerts	Not available	2% max.

4. FIRST AID MEASURES

General: Have the product container, label or Material Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Skin contact: Wash with plenty of soap and flowing water for at least 15 minutes while removing

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contaminated clothing. Wash clothing before reuse.

Eye contact: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation occurs.

Ingestion: If swallowed, drink several glasses of water. DO NOT induce vomiting unless patient has induced high doses. Seek medical advice.

Inhalation: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.

Note to physician: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point: Not flammable.

Flammable Limits (LFL-UFL): N/A.

Fire and Explosion Hazards: During a fire, product may generate irritating or toxic gasses through thermal decomposition.

Means of Extinction: Use water spray, foam or dry chemical.

Fire Fighting Instructions: Evacuate area and fight fire from a safe distance. Approach from upwind to avoid hazardous vapors and decomposition products. A foam or dry chemical fire extinguishing system is preferred to prevent environmental damage from excessive water run off. If water is used, avoid heavy hose streams. If possible, dike and collect water used to fight fire to prevent/minimize run off.

Fire Fighting Equipment: Self-contained breathing apparatus with full face piece. Wear full firefighting turn-out gear (Bunker gear).

Hazardous Combustion Products: Carbon monoxide, nitrogen oxides, phosphorous oxides.

6. ACCIDENT RELEASE MEASURES

Personal precautions: Wear protective clothing and personal protective equipment as prescribed in Section 8. Keep unprotected persons and animals out of area.

Environmental precautions: Do not allow to enter drains or water courses.

Method for cleaning up: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment

Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

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7. HANDLING AND STORAGE

Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Wash thoroughly after handling this product. Keep product from crystallizing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: No exposure limits have been established for this material.

Engineering controls: To keep exposure to airborne contaminants below exposure limits, proper ventilation is required when handling or using this product. Local mechanical exhaust ventilation may be required. Facilities storing or using this material should be equipped with an eyewash facility and a safety shower.

Personal protective equipment (PPE):

Skin protection: All pesticide handlers must wear a long-sleeved shirt and long pants and shoes plus socks.

Waterproof gloves are recommended when mixing, loading or cleaning equipment.

Eye protection: Safety goggles are recommended when mixing, loading or cleaning equipment.

User safety recommendations: Do not get in eyes or get in or on clothing. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white powder

pH: NA

S.g./density: NA

Solubility: 4.1g/L in water at 25°C

Flash point: 247.6°C

10. STABILITY AND REACTIVITY

Chemical stability: Product is normally stable.

Hazardous decomposition: Heat and fire may result in thermal decomposition and the release of nitrogen oxides, phosphorous oxides and carbon monoxide.

Incompatible materials: Strong oxidizers and bases, mild and galvanized steel.

Hazardous reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD₅₀ (rat): 1563 mg/kg

Dermal: LD₅₀ (rat): >2,000 mg/kg



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Inhalation: LC₅₀ (rat): >3.7 mg/L

Irritant properties:

Skin: (Rabbit) No irritation

Eye: (Rabbit) No irritation

Allergenic and sensitizing effects: Not considered to be a skin sensitizer (Guinea pig).

12. ECOLOGICAL INFORMATION

Birds Acute oral LD₅₀ for bobwhite quail 1552, mallard ducks 576 mg/kg. Dietary LC₅₀ for bobwhite quail and mallard ducks >5200 mg/kg.

Fish LC₅₀ (96 h) for rainbow trout >100, bluegill sunfish >114, sheepshead minnows >111 mg/l.

Daphnia EC₅₀ (48 h) >100 mg/l.

Algae EC₅₀ (96 h) for green algae >100 mg/l.

Other aquatic spp. LC₅₀ (96 h) for mysid shrimps 6.9 mg/l; EC₅₀ (96 h) for eastern oysters >119 mg/l.

Bees LD₅₀ for honeybees (oral) 0.005 µg/bee; (contact) 0.024 µg/bee.

Worms LC₅₀ (14 d) for Eisenia foetida >1000 mg/kg soil.

13. DISPOSAL CONSIDERATION

Pesticide disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Container disposal: For plastic containers, triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. For refillable containers, do not reuse the container except for refill in accordance with Toll Repackaging Agreement. If not refilled or returned to the authorized repackaging facility, triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. For bulk containers, triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

14. TRANSPORT INFORMATION

UN Number: 3077

UN Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Thiamethoxam)

Transport hazard class: 9

Packing group: III



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15. REGULATORY INFORMATION

Follow all local and international laws and regulations related to chemicals.

16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the way the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.

-- END OF MSDS --