

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name : Thiamethoxam 97% TC
Chemical Name : (EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine
Type : Insecticide
Molecular formula : C₈H₁₀ClN₅O₃S

2. Composition/Information on ingredients

Chemical Name	CAS#	Percent or content(w/v)
Thiamethoxam a.i.	153719-23-4	97.0
Impurities/By-products	-	3.0

3. Health Hazards Identification

Symptoms of Acute Exposure:

Causes mild eye and skin irritation.

Hazardous Decomposition Products:

Can decompose at high temperatures forming toxic gases.

4. First Aid Measures

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call doctor for further treatment advice.

Ingestion: If swallowed: Call doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a doctor. Do not give anything by mouth to an unconscious person. **Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15- 20 minutes. Call doctor for treatment advice.

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call doctor for treatment advice.

Notes to Physician: There is no specific antidote if this product is ingested. Treat symptomatically.

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5. Fire Fighting Measures

Fire Hazard: This product is a combustible powder and like all combustible powders can ignite, burn and form explosive mixtures with air if not handled correctly. Mixtures of powder in air with flammable solvent vapors should be avoided. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire: Use dry chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Cool tank/container with water spray. Isolate area. Fight fire from maximum distance, use extreme caution as heat may decompose material and rupture containers. If area is exposed to fire and conditions permit, let fire burn itself out.

6. Accidental Release Measures

Personal cautions: Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation.

Environmental cautions: prevent the contamination of the floor and of beds of water.

Spills: 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 Section. 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.

7. Handling and Storage

Handling:

This product has minimum ignition energy between 30 and 100 mill joules. Mechanical sparks, open flames and certain hot surfaces can serve as ignition sources for this material. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material could form. This

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product can energetically decompose at approximately 284°F (140°C). Do not store or process at temperatures above 158°F (70°C). Do not store near sources of heat including steam lines.

Storage:

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. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8.Exposure Controls/Personal Protection

Applicable control measures, including engineering controls: This product is intended for use outdoors where engineering controls are not necessary. If necessary, ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV. Warehouses, production area, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Eye Contact: Where eye contact is likely, use chemical splash goggles.

9.Physical and Chemical Properties

Appearance:	White to beige crystalline Powder
Odour:	Musty
Density:	1.57 g/l (20°C)
pH :	5.5-9.5 (1% aqueous dispersion)
Flash point:	Non flammable
Vapor Pressure:	2×10^{-11} mmHg (20°C)
Solubility in H₂O:	4.1 g/l @ 77°F (25°C)

10. Stability and Reactivity

Stability :	Stable under normal use and storage conditions.
Hazardous Polymerization :	Will not occur.
Conditions to avoid :	None known.
Products to avoid :	None known.;
Hazardous decomposition products:	Can decompose at high temperatures forming toxic gases.

11. Toxicological Information

ACUTE TOXICITY:

Oral LD 50:	> 5,000 mg/kg b.w.(rat)
Dermal LD50:	> 2 000 mg/kg (mice)
Inhalation LC50:	> 2.79 mg/l air - 4 hours
Skin Irritation:	Slightly Irritant (Rabbit)
Eye Irritation:	Sever Irritant (Rabbit)
Sensitization in guinea pig:	No skin sensitization
WHO Classification:	Class III

12. Ecological Information

Practically non-toxic to fish, invertebrates and birds. Highly toxic to bees.

Bees EC50: 0.024 ug/bee

Invertebrates (Water Flea) LC50/EC50: > 100 ppm

Fish (Trout) LC50/EC50: > 100 ppm

Fish (Bluegill) LC50/EC50: > 114 ppm

Birds (8-day dietary - Bobwhite Quail) LC50/EC50: > 5,200 ppm

Birds (8-day dietary - Mallard Duck) LC50/EC50: > 5,200 ppm

13. Disposal Considerations

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with local requirements. Perforate empty container and do not use for any other purpose. Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

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CIN No: U51909DL2011PTC219722

14. Transport Information

Product Name	:	Environmentally Hazardous Substance, Solid, N.O.S.(Thiamethoxam Technical)
Flash point	:	Non flammable
UN No.	:	3077
UN Hazard Class	:	9
UN Packing Group	:	III
Marine Pollutant status	:	YES
EMS	:	F-A, S-A

15. Regulatory Information

WHMIS classification for product:	Exempt
Other regulations; restrictions and prohibitions	
Section 311/312 Hazard Classes:	Acute Health Hazard Chronic Health Hazard
Section 313 Toxic Chemicals:	Not Applicable

16. Other Information

The information herein is presented in good faith and believed to be accurate. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with Federal, State and Local laws and regulations.