

MATERIAL SAFETY DATA SHEET

Spectrum Ethers Limited
Rasegaon Village, Nasik (M.S.)
Country: India, Pin-422202
Emergency Phone: 02557-228000

1.Product and Company identification:

Product name : Thiamethoxam Technical
Chemical Name : -3-[(2-chloro-5-thiazolyl) methyl] tetrahydro-5-methyl-N-nitro-4H-1, 3, 5-oxadiazin-4-imine
Chemical Formula : C₈H₁₀CIN₅O₃S
Chemical Family : Neonicotinoid Insecticide
CAS Number : 153719-23-4

2.Composition / Information On Ingredients :

Chemical Name	CAS No.	Percent or Content
Thiamethoxam	153719-23-4	Min 97 %

3. Health Hazards Identification:

Physical/chemical hazards :

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 vapours should be avoided. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Human health hazard : Irritating to eyes and skin May cause sensitization by skin contact May cause damage if aspirated into the lungs.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures:

Eyes – Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

Skin – Remove contaminated clothing. Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

Inhalation: Remove Victim to fresh air. Keep victim warm and rest. Immediately consult a doctor.

Ingestion: Wash out mouth with water Do NOT induces vomiting. Get immediate medical attention.

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 vapours 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.

6. Accidental Release Measures.

Personal precautions: Wear suitable protective clothing, gloves and eye/face protection. During cleaning activity, shut off ignition sources.

Environmental precautions: Dispose of this material and its container at hazardous or special waste collection point, if the product has contaminated surface water, inform the appropriate authorities.

Methods for cleaning up: Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination. In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. Handling and storage:

Handling: Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin Use flash proof and dust resistant goggles to prevent the contact with eyes.

Storage: Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition.

8. Exposure Control/Personal Protection:

Ingestion: Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material.

Eye protection: where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin protection: Where contact is likely wear chemical-resistant gloves, coverall, socks and chemical-resistant footwear.

Inhalation: Use approved chemical cartridge respirator with organic vapour cartridges and pre-filters or a supplied respirator.

9. Physical and Chemical properties:

Physical State	: White colour Granules
Odour	: Musty Odour
Specific gravity	: 0.471 at 20° C
Vapour pressure	: 2×10^{-11} mmHg (20°C)
Vapour Density	: Not known
Solubility in water	: Not soluble
PH value	: 9.4 (1% aqueous dispersion)
Flash point	: Not flammable

10. Stability and Reactivity:

Chemical stability	: Product is Stable under normal use storage condition.
Hazardous Polymerization	: Will not occur.
Hazardous Decomposition Products	: Can decompose at high temperatures forming toxic gases

11. Toxicological information:

Acute oral Toxicity	: LD ₅₀ (Rat) 5,000 mg/kg.
Acute dermal Toxicity	: LD ₅₀ (Rat) 2,000 mg/kg.
Eye irritant	: Rabbit: Sever irritant.
Skin irritant	: Rabbit: Slightly irritant.
Sensitization in guinea pig	: No skin sensitization

12. Ecological Information:

Fish (Rainbow Trout) 96-hour LC50 > 100 ppm

Bird (Mallard Duck) LD50 Oral 576 mg/kg

Invertebrate (Daphnia Magna) 48-hour EC50 > 106 ppm

Green Algae 4-day EC50 > 97 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.

14. Transport Information:

Proper shipping name.	Pesticide Solid, Toxic NOS
UN Number	3077
Marine Pollutant	Yes
Class	9
Flash Point	Non flammable
Hazard Label	TOXIC
Packing group	III
First Aid Code	NA

15. Regulatory Information:

Classification

This product is provisionally labeled by the supplier in accordance with suppliers understanding of the EU regulations:

Risk phrases:

- : Flammable.
- : Irritating to eyes and skin.
- : May cause sensitization by skin contact.
- : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- : Avoid contact with skin.
- : Wear suitable protective clothing, gloves and eye/face protection.
- : In case of contact with eyes, rinse immediately with plenty of water & seek medical advice.

16. Other Information:

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text