

## 1: IDENTIFICATION

<b>Chemical Name</b>	(NE)-N-[3-[(2-chloro-1,3-thiazol-5-yl)methyl]-5-methyl-1,3,5-oxadiazinan-4-ylidene]nitramide		
<b>Synonyms</b>	Thiamethoxam 75% SG	<b>Trade Name</b>	<b>SHUTTER® (SHUTTER)</b>
<b>Uses</b>	Insecticide	<b>Molecular Formula</b>	C <sub>8</sub> H <sub>10</sub> ClN <sub>5</sub> O <sub>3</sub> S
<b>Manufacturer/ Supplier</b>	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
<b>Emergency Contact</b>	9503095030	<b>E-mail</b>	<a href="mailto:info@agrostar.in">info@agrostar.in</a>

## 2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Thiamethoxam	153719-23-4	75.0%
Other inert components	-	25.0%

## 3: HAZARD IDENTIFICATION

**Human Health Hazard:** Acute oral toxicity Category 4  
H302 Harmful if swallowed

## 4: FIRST AID MEASURES

**General:** Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

**Inhalation:** Move patients to fresh air. Keep the patients warm and at rest. If person is not breathing then give artificial respiration, preferably

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless told by doctor. Do not give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

**Skin Contact:** In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Call medical attention.

**Eye Contact:** Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

**Note to Physician:** No specific Antidote. Treat symptomatically.

## 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide

**Unsuitable Extinguishing Media:** Solid water stream as it may scatter or spread the fire

**Specific Hazards:** In the event of fire, dense black smoke containing hazardous products of combustion is produced as the product contains combustible organic components. Exposure to decomposition products may be a hazard to health.

**Hazardous Thermal (de)composition:** Toxic and irritating vapours or gases will release on combustion.

**Special Procedures:** Evacuate area and fight fire upwind from a safe distance. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Do not discharge extinguishing water into the drain or water bodies.

**Protection of Fire Fighters:** Do not breathe a fumes. Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

## 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with spilled products or contaminated surfaces. Avoid creating dust.

**Environmental Precaution:** Prevent entry to sewers and public waters. Notify the authorities if product enters sewers or public waters.

**Methods for Cleaning up:** Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spilled material in sealed containers. Clean contaminated floors and objects thoroughly with water and detergents. Avoid solvents. Dispose of in accordance with local regulations. If significant amount of product enters into drain, notify the local authorities.

## 7: HANDLING & STORAGE

**Handling:** General precautions: Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Good personal hygiene procedures must be practiced.

**Specific conditions:** Good local exhaust ventilation.

**Storage:** Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Store in locked room and away from children, seeds, fertilizer, foods and animal feeds.

## 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** Ensure area is well-ventilated and set up emergency exits and the risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

**General Protection:** Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

**Personal Protection:** Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

**Respiratory Protection:** Where concentrations are above recommended limits or are unknown, use NIOSH/MSHA approved respiratory protection equipment. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release.

**Skin Protection:** Wear suitable protective clothing, including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

**Hand Protection:** Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

**Eye Protection:** Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

**Others:** Wash clothing before reusing.

## 9: PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b> Granules	<b>Odour :</b> Characteristic odour	<b>Physical State:</b> Solid
<b>Colour:</b> Beige	<b>pH:</b> 6 - 8 (1% dispersion)	<b>Melting Point [°C]:</b> 140.002
<b>Solubility in water:</b> 3.9879 mg/L at 20°C		<b>Density[gm/L]:</b> 0.45 - 0.65

## 10: STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances.

**Hazardous Decomp. Products:** No hazardous decomposition products are known

**Conditions to Avoid:** None known

**Material to Avoid:** None known

## 11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : 1000	Rat inhalation LC50 [mg/l/4h] : > 4.11	Skin irritation (rabbit): Non-irritant
Dermal (rat) LD50 [mg/kg]: > 2000	Skin Sensitization (Guinea Pig): Non-sensitizer	Eye irritation (rabbit): Non-irritant

## 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Rainbow trout LC50 (96 hrs)[mg/L]: >100      Daphnia magna (Water flea) EC50 (48 hrs) [mg/L] >100      Algae EC50 (96 hrs)[ mg/L]: >100

**Bio-accumulation Potential:** Bio-accumulation potential is low.

**Persistence, Degradability and Mobility in soil:** Moderately persistent; Mobile in soil

## 13: DISPOSAL CONSIDERATION

**Waste-disposal Procedures:** Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated Packaging:** Empty remaining contents and the rinse containers thrice before disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers unless they are specifically designed to be refilled.

## 14: TRANSPORT INFORMATION

**UN No.** Not Applicable      **Proper Shipping Name:** Not classified

**Land Transport (ADR/RID):** Not classified      **Sea Transport (IMO) (IMDG):** Not classified

**Air Transport (IATA/ICAO):** Not classified

**Note:** Product is not classified as per current resolution on transportation of dangerous products for air, water and land modes

## 15: REGULATORY INFORMATION

**Hazard Symbol:** GHS07

**H-Statement:** H302 Harmful if swallowed

## 16: OTHER INFORMATION

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