

1: IDENTIFICATION

Chemical Name	Thiamethoxam: (NE)-N-[3-[(2-chloro-1,3-thiazol-5-yl)methyl]-5-methyl-1,3,5-oxadiazinan-4-ylidene]nitramide Chlorantraniliprole: 3-bromo-N-[4-chloro-2-methyl-6-(methylcarbamoyl)phenyl]-1-(3-chloro-2-pyridinyl)pyrazole-5-carboxamide		
Synonyms	Thiamethoxam 1% + chlorantraniliprole 0.5% GR	Trade Name	ELEOS
Uses	Insecticide	Molecular Formula	$C_8H_{10}ClN_5O_3S + C_{18}H_{14}BrCl_2N_5O_2$
Manufacturer/Supplier	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		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Thiamethoxam	153719-23-4	1.00%
Chlorantraniliprole	500008-45-7	0.50%
Inert Ingredients	-	98.50%

3: HAZARD IDENTIFICATION

Hazard Classification:	Chlorantraniliprole: Aquatic Hazard Acute Category 1 Thiamethoxam: Aquatic Hazard Acute Category 1 & Chronic Category 1		
Human Health Hazard:	H332: Harmful if inhaled H313: May be harmful in contact with skin,		H302: Harmful if swallowed
Environmental Hazard:	P273 Avoid release to Environment.		

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. Allow patients to rest. Immediately seek medical attention.

Ingestion: Rinse mouth with water and give plenty of water to drink. Do not induce vomiting. 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

Specific Hazards: Contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.

Hazardous Thermal (de)composition: No data available

Special Procedures: Do not discharge extinguishing water into the drain or water bodies. Move containers away from area if it can be done without risk. If possible remove containers from fire zone, cool them with water spray

Protection of Fire Fighters: Do not breathe a fumes, Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area and no open flame, spark, and smoking. Avoid breathing fume. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning-up: Clean up any spills as soon as possible, using non-combustible absorbent material to collect it. Collect spilled material in sealed containers. Do not use equipment in clean up procedure, which may produce sparks. Remove according to national or local legislation clean the polluted area. Do not dump into the sewer, on the ground or into any body of water.

7: HANDLING & STORAGE

Handling: 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. Eliminate all sources of ignition from areas where the material is handled or used. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local exhaust ventilation. Full face protective mask.

Storage: Store in cool, well-ventilated area, and away from source of ignition and out of reach of children. Keep in original container and tightly closed when not in use. Do not contaminate water, food, or feed by storage or disposal.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure area is well-ventilated and there is 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: Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter. 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

Appearance: Granules	Specific Gravity: 0.47 - 0.57 g/cc	Physical State: Solid
Colour: Beige to Brown	Odour : Weak, uncharacteristic	Melting Point [°C]: Not applicable
Solubility in Water: Soluble	pH: 6 - 9 (1% Aqueous Solution)	

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances.

Conditions to Avoid: None known

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

Reactivity: None reasonably foreseeable.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >5000	Rat inhalation LC50 [mg/l/4h] : >4.16	Skin irritation (rabbit): Non-Irritant
Dermal (rat) LD50 [mg/kg]: >5000	Skin Sensitization (Guinea Pig): Not a skin sensitizer	Eye irritation (rabbit): Non-Irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow Trout LC50 (96 hrs) mg/L: >100	Daphnia magna EC50 (48 hrs) mg/L: 0.023	Algae EC50 (72 hrs) mg/L >100
--	---	-------------------------------

Bio-accumulation Potential: No data available.

Persistence, Degradability and Mobility in Soil: No data available.

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 before disposal thrice. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14: TRANSPORT INFORMATION

UN No. 3077 **Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S (Chlorantraniliprole + Thiamethoxam)

Land Transport (ADR/RID): Class-9, Packing Group-III

Sea Transport (IMO/IMDG): Class-9, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA/ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: GHS09, GHS07

Hazard Statements: H302, H332, H313, H400, H410

16: OTHER INFORMATION

DISCLAIMER OF LIABILITY The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

----- END -----