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MATERIAL SAFETY DATA SHEET

PRODUCT : Thiamethoxam 30% FS

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name	:	Thiamethoxam
Grade	:	Formulation
Active Ingredient	:	Thiamethoxam
Chemical Name of Active Ingredient (IUPAC)	:	(EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl) -5-methyl-1,3,5-oxadaizinan-4-ylidene (nitro) amine
Chemical Family of A. I.	:	Neonicotinoid
Molecular Formula of A. I.	:	$C_8H_{10}ClN_5NO_3S$
Molecular Mass of A. I.	:	291.71 g/mol
Manufacturer & Supplier	:	**M/s United Chemicals** **Head office**:B-371, 1st Floor, Meera Bagh, New Delhi, **Factory**:15/1, 15/2, 15/3, industrial Estate, Vidisha, (M.P)
Telephone Number	:	+91-11-25258770

Section 2. Composition / Information on Ingredients

Identity	**% W/W content**
Thiamethoxam, a.i.	30.00%w/w
Other Components	70.00% w/w
Total	**100.00**

Section 3. Hazards Identification

Causes mild skin irritation.

Very toxic to aquatic life with long lasting effects.

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Section 4. First Aid Measures

Emergency and First Aid Procedure –

If in Eyes: Immediately flush eyes with copious amounts of clean, cold water for at least 15 to 20 minutes, holding the eyelid(s) open. Obtain medical attention if irritation persists.

If on Skin: Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with clean, cold water and non-abrasive soap. Obtain medical attention if irritation persists.

If Inhaled: If irritation has developed, remove the source of contamination or move victim to fresh air. The patient should be kept under observation and obtain medical attention if irritation persists.

If Swallowed: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Obtain medical attention immediately and make the container, or label or Safety Data Sheet available.

Note to Physician No specific antidote is available. Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

Unsuitable extinguishing media: High Pressure water jets may scatter spilled material.

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

Special Protective Equipment: Wear self-contained breathing apparatus and protective suit. Use standard fire fighting procedures and consider the hazards of involved material.

Section 6. Accidental Release Measures

Wear protective gloves/protective clothing/eye protection/face protection.

Personal Precautions: Avoid dust/mist formation. Do not eat, drink or smoke while using this product. Avoid contact with skin and eyes. Avoid breathing dust/mist. Keep unnecessary people away. Isolate area. Keep out of low areas.

Environmental Precautions: Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

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Steps to be taken in case of a spill: Pick and arrange disposal without creating dust. Sweep up and shovel into suitable container for disposal. Follow all label instructions regarding spill clean-up and residual disposal methods.

Section 7. Handling & Storage

Precautions in Handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust/mist. Ensure adequate ventilation. Wash thoroughly after handling. Avoid release to environment. Empty containers may contain hazardous residues. Do not reuse empty container

Precautions in Storage: Store in accordance with local regulation. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible material. Do not store in unlabeled containers. Do not store material near food, feed or drinking water.

Incompatibles: Decomposed in alkaline and strong acid.

Section 8. Exposure Control, Personal Protection

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Local authorities should be advised if significant spillage cannot be contained.

Eye Protection: Avoid contact with eyes. Where there is potential for eye contacts have eye flushing equipment available. Tightly fitting safety goggles. Face-shield.

Skin Protection: Wear protective gloves/clothing. Long-sleeved clothing.

Engineering Control: Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Exposure Guidelines: Apply technical measures to comply with the occupational exposure limit.

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General hygiene considerations: Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Section 9. Physical and Chemical Properties

Appearance / state	:	Liquid
Colour	:	Light red to dark red
Odour	:	Characterstic odor
Melting point	:	NA
Boiling point	:	NA
pH	:	4 - 8 at 1 % w/v
Density	:	1.1785 g/cm3 at 20 - 25 °C
Viscosity	:	NA
Flash Point	:	200°C

Section 10. Stability & Reactivity

Hazardous decomposition products Combustion or thermal decomposition will evolve toxic and irritant vapors. Hazardous reactions None known.

Hazardous polymerization does not occur. Stable under normal conditions.

Section 11. Toxicological Information

Acute oral LD50: > 2000 mg/kg in rats.

Acute dermal LD50: > 2000 mg/kg in rats.

Acute inhalation LC50: > 3.5 mg/l /4 hours (rat).

Eye Irritation: Rabbit (male/female) Mild- irritating

Skin Irritation: Rabbit (male/female) Non-irritating

Skin Sensitization: Guinea Pig, Non-Sensitizer

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Section 12. Ecological Information

Toxicity to bees: LD50 for honeybees (oral) 0.005 µg/bee; (contact) 0.024 µg/bee.

Toxicity to fish and other aquatic organisms: LC50 (96 hours): Bluegill sunfish: >114 ppm. Rainbow trout: >100 ppm.

Toxicity to birds: Dietary LD50: Quail :> 5200 mg/kg

Toxicity to earthworms and soil micro-organisms: LC50 (14 d) for Eisenia foetida>1000 mg/kg soil. Toxicity to other non-target organisms: Daphnia: LC50 (48 hour) >100 ppm. 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.

Section 13. Disposal Consideration

Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Section 14. Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Toxic substances under the applicable, ICAO/IATA, IMO, ADG.

IMDG Classification

Shipping name	:	Environmentallu Hazardous Substance,liquid N.O.S.
Class	:	9
Packing group	:	III
UN number	:	3082
Marine pollutant	:	Yes

Section 15. Regulatory Information

Symbol: Xi, N

Indication of danger: Irritating substance Harmful substance

Risk phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

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R 36/38 Irritating to yes and skin.

R 51/R 53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S 1/2 Keep locked up and out of reach children.

S 13 Keep away from food, drink and animal feeding stuffs.

S 24/25 Avoid contact with skin and eyes. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets

Section 16. Other Information

United Chemicals Believes That The Information And Recommendations Contained Herein (Including Data And Statements) Are Accurate As Of The Date Hereof. No Warranty Of Fitness For Any Particular Purpose, Warranty Of Merchantability, Or Any Other Warranty, Expressed Or Implied, Is Made Concerning The Information Provided Herein. The Information Provided Herein Relates Only To The Specific Product Designated And May Not Be Valid Where Such Product Is Used In Combination With Other Materials Or In Any Process. Further, Since The Conditions And Methods Of Use Are Beyond The Control Of United Chemical And United Chemicals Expressly Disclaims Any And All Liability As To Any Results Obtained Or Arising From Any Use Of The Product Or Reliance On Such Information.

Safety Division : UNITED CHEMICALS, SAFETY DIVISION