



CROP LIFE SCIENCE LTD.

Material safety data sheet Thiamethoxam 25 % WG

1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name : Thiamethoxam 25% WG
Chemical Name : 3-[(2-chloro-5-thiazolyl) methyl] tetrahydro-5-methyl-N-nitro-4H-1, 3, 5-oxadiazin-4- imine
Brand Name : **ATHOXAM**
Users : Insecticide
Molecular Formula : C₈H₁₀ClN₅O₃S
Manufacturer : **CROP LIFE SCIENCE LTD.**
Address : Plot No. 5165, 5166, 5151, G.I.D.C., Ankleshwar-393002
Gujarat, India
Tele Fax Number : 91 2646 238479

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/W)
Thiamethoxam a.i.	153719-23-4	25.00 %
Other ingredients	---	75.00 %

3. HEALTH HAZARDS IDENTIFICATION

May be flammable dust-air mixture. Very toxic to aquatic life with long lasting effects.

4. FIRST AID MEASURES

Ingestion If swallowed, seek medical advice immediately. Do not induce vomiting.
Skin Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Inhalation Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Eye irritation Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.



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5. FIRE FIGHTING MEASURES

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide. Do not use solid water stream as it may scatter and spread fire. Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid dust formation
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal.

7. HANDLING AND STORAGE

Safe handling	this material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Breathing Protection	No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
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 (such as nitrile or butyl) gloves, coveralls, socks and chemical resistant footwear. To overhead exposure, wear chemical resistant headgear.
Ingestion	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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granules, beige to brown
Odour	musty
pH	7– 11 at 1% w/v
Bulk Density	0.42 to 0.52 gm/cm ³
Flammability	Not highly flammable
Explosive Properties	Not Explosive
Miscibility	Miscible

10. STABILITY AND REACTIVITY

Stability	Stable at normal ambient temperature and pressure
Hazardous Polymerization	Does not occur.
Conditions to avoid	at elevated temperatures it will undergo rapid, gas evolving thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rats) > 5000 mg/kg
Acute Dermal Toxicity	LD ₅₀ (Rats) > 5000 mg/kg
Acute Inhalation	LC ₅₀ (rats) : >5290 mg/m ³ , 4 h
Eye Irritation	Rabbit: Non irritant
Skin Irritant	Rabbit: Non irritant
Skin sensitization	Guinea pig: Not a skin sensitizer in animal tests.

12. ECOLOGICAL INFORMATION

Daphnia	EC ₅₀ (48 h) > 100 mg/l
Cleon	EC ₅₀ (48 h) > 100 mg/l
Fish	LC ₅₀ (96 h) for Rainbow trout > 100 mg/l
Green Algae	EC ₅₀ (72 h) > 100 mg/l



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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Do not contaminate ponds, water ways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration.

Contaminated Packing Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Rail/Road (RID/ADR)	
Proper Shipper Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.
Class	: 9
UN No.	: 3077
Packing Group	: III
Sea (IMDG – Code)	
Proper Shipper Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.

Class	: 9
UN No.	: 3077
Packing Group	: III
Air (IATA-DGR)	
Proper Shipper Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.
Class	: 9
UN No.	: 3077
Packing Group	: III

Packing Instructions: Packing instructions on sea: P002/LP02 Packing instructions on air: Y911/911

15. REGULATORY INFORMATION

Hazard Symbol	N	Dangerous for the environment
Special Risks (R-Phrases)	R22	Harmful if swallowed
	R 50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment



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Safety Advice (S- Phrases)	S2	Keep out of the reach of children
	S13	Keep away from food, drink and animal feeding stuffs
	S20/21	When using do not eat, drink or smoke
	S35	This material and container must be disposed in a safe way
	S57	Use appropriate container to avoid environmental contamination
International WHO Toxicity Classification	III	Slightly hazardous

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

