



MATERIAL SAFETY DATA SHEET

Azinam

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: fluazinam
Trade Name: Azinam
Uses category: Fungicide
Type of formulation: Suspension concentrate (SC)
Chemical Name: 3-chloro-N-[3-chloro-2, 6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine.
Chemical Formula: C₁₃H₄Cl₂F₆N₄O₄
Molecular Weight: 465.1

PRODUCT COMPOSITION:

Active Ingredient:	% w/v	CAS #
Fluazinam	50 %	[79622-59-6]

Inert materials :
-up to 1 liter





HAZARDS IDENTIFICATION:

Health and Environmental	May be harmful in contact with skin. Causes moderate eye and skin irritation. May cause an allergic skin reaction.
Hazardous Decomposition Products	None known.
Physical Properties	Appearance: Yellow liquid Odor: Pungent
Unusual Fire, Explosion and Reactivity Hazards	During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

FIRST-AID MEASURES:

Ingestion:	If swallowed: Call doctor, a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling by a poison control center or doctor. Do not give anything by mouth to an unconscious person
Eye Contact:	If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin Contact:	If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation:	If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Notes to Physician: There is no specific antidote if this product is ingested. Treat symptomatically.





Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Medical Condition Likely to be aggravated by Exposure: None known.

FIRE-FIGHTING MEASURES: -

Fire and Explosion:

Flash Point (Test Method):	Not Available
Flammable Limits (% in Air):	Lower: Not Applicable Upper: Not Applicable
Autoignition Temperature:	Not Available
Flammability:	Not Available

Unusual Fire, Explosion and Reactivity Hazards:

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.

ACCIDENTAL RELEASE MEASURE:

In Case of Spill or Leak:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal





container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

PERSONAL PROTECTION/SAFETY:

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of this product.

For commercial applications and/or on-farm applications consult the product label.

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.

Eye Contact: 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 Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

HANDLING AND STORAGE:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in





the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

STABILITY AND REACTIVITY:

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Avoid contact with heat or open flame.
Materials to Avoid:	None known.
Hazardous Decomposition Products:	None known

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Yellow liquid
Odor:	Pungent
Melting Point:	Not Applicable
Boiling Point:	Not Available
Specific Gravity/Density:	1.259 g/ml
pH:	5.9
Solubility in H ₂ O	Insoluble in/with H ₂ O (0.1 ppm @ 68°F (20°C))
Vapour Pressure	3.8 x 10 ⁽⁻⁸⁾ mgHg @ 68°F (20°C)

TOXICOLOGICAL INFORMATION:

Acute Toxicity/Irritation Studies (Finished Product):

Ingestion:	
Oral (LD ₅₀ Rabbit) :	> 5000 mg/kg body weight
Dermal:	
Dermal (LD ₅₀ Rat) :	> 2000 mg/kg body weight
Inhalation:	
Inhalation (LC ₅₀ Rat) :	> 23 mg/l air - 4 hours





Eye Contact:	Moderately Irritating (Rabbit)
Skin Contact:	Moderately Irritating (Rabbit)
Skin Sensitization:	Demonstrated potential to produce dermal sensitization.
Reproductive/Developmental Effects	Did not show teratogenic effects in animal experiments.
Chronic/Sub chronic Toxicity Studies	Not available.
Carcinogenicity	Did not show carcinogenic or mutagenic effects in animal experiments.
Other Toxicity Information	None
Toxicity of Other Components	Not Applicable

ECOLOGICAL INFORMATION: -

Ecotoxicity Effects:

Fish (Rainbow Trout) 96-hour LC50 36 ppb

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 180 ppb

Green Algae 4-day EC50 0.18 ppm

Bird (Bobwhite Quail) 14-day LD50 1782 mg/kg

Environmental Fate:

Fluazinam:

The information presented here is for the active ingredient, fluazinam. Environmental Fate and Distribution: Solid with low volatility. The substance is essentially insoluble in water. The substance has low mobility in soil.

Persistence and Degradation: There is evidence of degradation in soil and water.

DISPOSAL CONSIDERATIONS:





Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Under certain circumstances, discarded product may exhibit TCLP hazardous characteristics. A hazardous waste determination should be done on a case by case basis.

Listed Waste: Not Applicable

