

Allegro® 500F Agricultural Fungicide

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Common Name/Trade Name:	Allegro 500F Agricultural Fungicide
Synonym:	Omega®, Altima®, Shirlan®, and Shogun®
Chemical Name:	Fluazinam (3-chloro- <i>N</i> -[3-chloro-2,6-dinitro-4-trifluoromethyl)phenyl-5-trifluoromethyl-2-pyridinamine (CA))
Chemical Family:	Phenylpyridinylamine
Material Uses:	Agricultural industry: Fungicide
Registration No.:	27517 (PEST CONTROL PRODUCTS ACT)
MSDS No.:	33
Company Identification:	ISK Biosciences Corporation 7470 Auburn Road, Suite A Concord, OH 44077-9703 (440) 357-4640
24 Hour Emergency Number:	For Transportation emergency, spills, leak, fire or accident call:CHEMTREC 1-800-424-9300 For Medical emergency call: 1-888-484-7546

SECTION 2. HAZARDS IDENTIFICATION
<p>Physical properties Yellow Liquid with pungent odor.</p> <p>Potential Acute Health Effects Causes moderate eye and skin irritation. May be harmful if swallowed, inhaled, or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Repeated or prolonged exposure may cause lung irritation.</p> <p>Unusual Fire and Explosion Hazards During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.</p> <p>Environmental This product is toxic to fish and aquatic invertebrates.</p>

SECTION 3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS			
Material:	CAS #:	WHMIS*	TLV/PEL:
Active Ingredient: Fluazinam (40%)	79622-59-6	Not established	Not established
Propylene Glycol	57-55-6	yes	Not established
*Material listed in the Ingredient Disclosure List under the Hazardous Products Act.			

SECTION 4. FIRST AID MEASURES

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: Remove contaminated clothing. Wash skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Remove person from contaminated area to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Notes to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIRE AND EXPLOSION DATA

Flash Point: Not applicable.

Auto-Ignition Temperature: Not available.

Flammable Limits: Not available.

Flammability: Non-combustible.

Unusual Fire and Explosion Hazards: May decompose under fire conditions emitting gases and vapors, which may be toxic and irritating to the respiratory tract.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemicals, CO₂, water spray or foam.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Wear full fire fighting turn-out gear and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill or Release: Contain spill. Remove as much as possible and remove any contaminated soil. Place in closed, labeled container and store in a safe place to await proper disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Persons performing this work should wear adequate personal protective equipment and clothing.

SECTION 7. HANDLING AND STORAGE

Precautions: Do not get on skin or clothing. Avoid contact with eyes. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use. Do not take internally.

Storage: Store in original container, in a secure, dry place separate from food and feed. Keep out of reach of children and domestic animals.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The recommendations in this section for exposure controls and Personal Protection are intended for industrial settings (such as formulation or packaging facilities) or for other non-application situations.

For commercial applications and/or on-farm applications of this product refer to the precautions/warnings on the product label. Always follow the label instructions when handling and applying this product.

Exposure Limits: Not established.

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protection:

Ingestion: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Eye Contact: Where eye contact is likely, use protective eyewear (such as chemical splash goggles).

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as polyethylene, polyvinyl chloride (PVC), or nitrile rubber), coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear.

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

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: Yellow liquid

Odor: Pungent odor

pH: 5.8 @ 25°C (1% aqueous solution)

Boiling Point: Not available

Melting Point: Not applicable

Freezing Point: Not available

Flash Point: Not applicable

Flammable Limits: Not available

Flammability: Noncombustible

Vapor Pressure: 1.7×10^{-7} mm Hg @ 25°C (based on active ingredient)

Vapor Density: Not determined

Volatility: Not volatile

Evaporation Rate: Not available

Density: 1.259 g/ml @ 25°C

Solubility: 0.07 – 0.14 ppm in water @ 20°C (pH 7) (based on active ingredient)

N-Octanol/Water: Log Pow = 3.56 to 4.03 (based on active ingredient)

SECTION 10. STABILITY AND REACTIVITY DATA

Stability: This product is stable under normal use and storage conditions.

Conditions to Avoid: Avoid contact with heat or open flame.

Conditions Contributing to Hazardous Polymerization: None known.

Hazardous Decomposition Products: None known. May decompose under fire conditions to release vapors or gases which are toxic and irritating to the respiratory tract.

SECTION 11. TOXICOLOGICAL INFORMATION		
Acute Animal Data:	Acute oral toxicity (LD ₅₀):	>5000 mg/kg [Rat].
	Acute dermal toxicity (LD ₅₀):	>2000 mg/kg [Rabbit].
	Acute inhalation toxicity (LC ₅₀):	>1.03 mg/L [actual airborne concentration]; >23 mg/L (nominal) 4 hour(s) [Rat].
	Primary eye irritation:	Slight to moderate eye irritant.
	Primary dermal irritation:	Moderate skin irritant.
	Primary dermal sensitization:	Demonstrated potential to produce dermal sensitization.
Chronic Toxicity Data: A battery of mutagenicity tests indicated that Fluazinam was not genotoxic.		

SECTION 12. ECOLOGICAL INFORMATION	
Summary of Effects:	This product is toxic to fish and aquatic invertebrates.
Ecotoxicity Data (Fluazinam):	Fish (Rainbow Trout) 96-hour LC ₅₀ = 36 ppb (highly toxic) Invertebrate (<i>Daphnia magna</i>) 48-hour EC ₅₀ = 180 ppb (highly toxic) Green Algae 4-day EC ₅₀ = 0.18 ppm (highly toxic) Bobwhite Quail Acute LD ₅₀ = 1782 mg/kg (slightly toxic); Mallard Duck Acute LD ₅₀ = 4190 mg/kg (practically non-toxic) Sub-Acute Dietary (Mallard:>10600 ppm & Quail:>10500 ppm) (practically non-toxic)

SECTION 13. DISPOSAL CONSIDERATIONS	
Waste Disposal:	Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.
Container Disposal:	Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

SECTION 14. TRANSPORT INFORMATION		
U.S. DOT Classification:	CLASS 9, Marine Pollutant. Not regulated for non-bulk packaging unless all or part of the transportation is by vessel.	
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Fluazinam)	
U.S. DOT ID No.:	UN 3082	
Packing Group:	PG III	
Hazardous Substances Reportable Quantity:	Not a hazardous substance.	
Special Provisions for Transport:	Class 9 placard not required for non-bulk packaging transported by ground or rail within the United States.	
	IATA (Air Transport)	IMDG (Ocean Transport)
Proper Shipping Name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Fluazinam)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZINAM)
Hazard Class:	Class 9	CLASS 9, MARINE POLLUTANT
Identification Number:	UN 3082	UN 3082
Packing Group:	PG III	PG III

SECTION 15. REGULATORY INFORMATION

Canada (WHMIS):	Exempt
U.S. Federal and State Regulations:	
SARA 313 Inventory Ingredients:	Not listed
SARA 312 Hazards Classification:	Acute Health
Listed as carcinogen by:	
IARC:	No
NTP:	No
OSHA:	No
CA Prop 65:	No
TSCA:	Exempt from TSCA, subject to FIFRA.

SECTION 16. OTHER INFORMATION

Prepared by: ISK Biosciences Corporation
Contact: (440) 357-4640

NFPA Hazard Ratings

Health: 2
Flammability: 1
Instability: 0

0 Minimal
1 Slight
2 Moderate
3 Serious
4 Extreme

Notice to Reader

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