



# MATERIAL SAFETY DATA SHEET

## **I - PRODUCT IDENTIFICATION**

Product: Algaecide 90 D  
Chemical Family: A solution of a copper triethanolamine complex in water  
Formula: Proprietary  
CAS Number: 7758-99-8  
Synonyms: Copper Sulfate Pentahydrate, 3 Month Algaecide

### **COMPANY IDENTIFICATION**

AllChem Performance Products, LP  
6010 NW First Place  
Gainesville, FL 32607  
Tel:352-378-9696

### **24 HR EMERGENCY TELEPHONE NUMBER**

INFOTRAC (Transportation): (800)535-5053

## **II – COMPOSITION, INFORMATION ON INGREDIENTS**

<u>Chemical or Common Name:</u>		<u>CAS #</u>
Copper sulfate pentahydrate (chelated in solution)	12%	7758-99-8
Proprietary	28%	
(all other components are non-hazardous)		

## **III – HAZARDS IDENTIFICATION**

WARNING. Irritant to eyes and skin. Harmful if ingested. This material is harmful to fish.

Carcinogenicity Listings: Components are not listed as carcinogens or potential carcinogens.

Potential Health Effects:

Eye contact: Irritant. May cause watering of the eye and blurred vision. Contamination of the eye can result in permanent injury.

Skin Contact: Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to skin burns and allergic contact dermatitis.

Inhalation: Not normally an inhalation hazard due to low vapor pressure.

Ingestion: Can result in burning and metallic taste in mouth, irritation of the mouth, esophagus and stomach, vomiting, diarrhea, abdominal pain, jaundice and kidney failure, dizziness, faintness, loss of consciousness and death.

Chronic: No information is available.

Note to physician: Treat symptomatically. Corrosive. May cause stricture. If lavage is performed, suggest endotracheal and/or esophagosopic control.

## **IV – FIRST AID MEASURES**

Emergency and First Aid Procedures:

Eye Contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Hold eyelids open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance.

Skin Contact: Immediately wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs, seek medical advice.

Inhalation: Remove victim from exposure to fresh air. Seek medical advice if effects persist.

Ingestion: Immediately rinse mouth. If swallowed, DO NOT induce vomiting. Give water or milk, seek immediate medical assistance.

## **V – FIRE FIGHTING MEASURES**

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Auto-ignition Temperature: Not applicable

Flammable Limits: N/A

LEL: Not applicable



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UEL: Not applicable

Extinguishing Media: Water fog (or if unavailable, use fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Special Fire-fighting Procedures:

Unusual Fire and Explosion Hazards:

Flammability Data:

Flammable: No

Combustible: Not combustible, however following evaporation of aqueous component, residual could burn if ignited.

## **VI – ACCIDENTAL RELEASE MEASURES**

Steps to be taken in case material is spilled or released:

Clear area of all unprotected personnel. Avoid inhalation of vapor or mist. Increase ventilation, Slippery, use caution. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid contaminating waterways.

## **VII – HANDLING AND STORAGE**

Precautions to Be Taken in Handling and Storage:

Storage: Transport or store in a cool, dry area away from direct heat. Keep container tightly closed when not in use. Do not pack in unlined steel drums.

## **VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ventilation:

Normal ventilation should be sufficient under normal conditions. Keep containers closed when not in use.

Personal protection: Avoid skin and eye contact.

Protective Clothing Type: Wear overalls.

Skin and Eye Protective Equipment: Face shield, elbow length PVC gloves.

Work/ Hygienic Practices: Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Exposure Guidelines

Permissible Exposure Limits: CAS # 102-71-6; TWA 5 mg/m<sup>3</sup>

## **IX - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: 100°C

Vapor pressure: not available

Solubility in Water: Miscible

Appearance and odor: Blue liquid with slight odor, may foam.

Specific Gravity (H<sub>2</sub>O=1): 1.08-1.21

Melting Point: N/A

Freezing Point: -5.6C (21.9 F)

pH: 8.5

## **X – STABILITY AND REACTIVITY**

Chemical Stability: Stable

Conditions to Avoid: Protect from freezing. Keep away from metals.

Incompatibility: Strong acids.

Hazardous Decomposition or By-Products: Oxides of carbon and nitrogen. Decomposes on heating emitting toxic fumes including those of NOX.

Hazardous Polymerization: Will Not Occur



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## **XI- TOXICOLOGICAL INFORMATION**

Oral LD50(rat): 4500 mg/kg  
Dermal ID50 (rat) : Not available.  
Inhalation LC50: No effect at 2000 mg/kg  
Skin Irritation: Irritant  
Eyes Irritation: Irritant  
Skin Sensitization: Not available

## **XII – ECOLOGICAL INFORMATION**

No data available.

### ENVIRONMENTAL HAZARDS (PR Notice 93-10)

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water board or Regional Office of the EPA.

## **XIII – DISPOSAL CONSIDERATIONS**

Consult state and local regulations regarding the proper disposal of this material. It does meet the criteria of a hazardous waste as defined under 40 CFR 261.

## **XIV - TRANSPORTATION DATA**

Please refer to applicable regulations or call company noted under Section I.

## **XV - REGULATORY INFORMATION**

This chemical appears on the Sara Title III Section 311/312 Hazard Categories under Acute Health Hazard.

## **XVI - ADDITIONAL INFORMATION**

This MSDS replaces the no other version. Any changes in information are as follows: **NEW ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.**

Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section XV of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. 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, and 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.

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