



MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION

Product: O-ACE-sis® 3 Month Algaecide
Chemical Family: A solution of a copper triethanolamine complex in water
Formula: $CuC_{12}H_{30}N_2O_6$
CAS Number: 31089-39-1
Synonyms: Copper(II) triethanolamine complex

COMPANY IDENTIFICATION

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

DISTRIBUTED BY

Water Techniques, Inc.
157 Pickett's Way
Acworth, GA 30101
Tel: 770-966-0250

II - COMPOSITION, INFORMATION ON INGREDIENTS

Chemical or Common Name:	Exposure Limits	
	OSHA PEL	ACGIH TLV:
Copper(II) Triethanolamine complex, 30-31%	N/A	N/A

III - HAZARDS IDENTIFICATION

Primary Route(s) of Entry:

Ingestion: (X)
Inhalation: ()
Skin Contact: (X)
Eye Contact: (X)

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

OSHA: ()
NTP: ()
IARC: ()

Primary Health Hazards (Acute and Chronic): see below

Signs & Symptoms of Exposure:

Acute:

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.

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

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

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

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:

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

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

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

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.

V – FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Auto-ignition Temperature: Not applicable

Flammable Limits:

LEL: Not applicable

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 when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid contaminating waterways.

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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.

IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 100°C

Vapor pressure: 17mm

Solubility in Water: Miscible

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

Specific Gravity (H₂O=1): 1.08-1.11

Melting Point: N/A

pH: 8.5

X – STABILITY AND REACTIVITY

Stability: Unstable Stable

Conditions to Avoid:

Incompatibility: Strong acids.

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

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid:

XI- TOXICOLOGICAL INFORMATION

Animal Toxicology:

Acute Toxicity:

Inhalation LC50: No effect at 2000 mg/kg

Dermal : Greater than 2000 mg/kg

Oral LD50(rat): 4500 mg/kg

Eyes: Irritant

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Inhalation: No effect at 2000 mg/kg

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, Or EPA.

XII – ECOLOGICAL INFORMATION

Aquatic Toxicity: No data

Avian Toxicity:

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

Waste Disposal Method: After cleaning up spills, refer to State Land Waste Management Authority for disposal. Decontaminate empty containers.

XIV - TRANSPORTATION DATA

U.S. Department of Transportation - 49 CFR

Not Regulated

Proper Shipping Name: Agricultural herbicide

Hazard Class/Division Number:

ID Number:

Packing Group:

Label Required:

Placard Required:

Marine Pollutant:

Emergency Telephone Number: Chemtrec 800-424-9300

International Maritime Organization - IMDG

Not Regulated

Proper Shipping Name:

Hazard Class/Division Number:

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ID Number:

Packing Group:

Label Required:

Placard Required:

Marine Pollutant:

Emergency Telephone Number: Chemtrec 202-483-7616 [call collect]

XV - REGULATORY INFORMATION

This chemical appears on the following lists:

- SARA Section 313
- TSCA

XVI - ADDITIONAL INFORMATION

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.

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