

MATERIAL SAFETY DATA SHEET

AB Cutrine Plus

1. Product And Company Identification			
Supplier Applied Biochemists (WI) A division of Advantis Technologies, Inc. W175 N11163 Stonewood Drive, Suite 234 Germantown, WI 53022 Telephone Number: (262) 255-4449 FAX Number: (262) 255-4268 Web Site: www.appliedbiochemists.com		Manufacturer Advantis Technologies, Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300		Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	
 Issue Date: 11/15/2006 Product Name: AB Cutrine Plus Chemical Name: Chelated Elemental Copper CAS Number: Not Established Chemical Family: Copper Algaecide Chemical Formula: Proprietary Mixture MSDS Number: 366			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
COPPERCARBONATE		12069-69-1	
MONOETHANOLAMINE		141-43-5	
TRIETHANOLAMINE		102-71-6	
Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).			
3. Hazards Identification			
Primary Routes(s) Of Entry Eye Contact, Skin Contact			
Eye Hazards Corrosive to eyes.			
Skin Hazards May be corrosive to skin.			
Ingestion Hazards Harmful if swallowed. May cause burning of the mouth, throat and stomach.			
Inhalation Hazards Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, headache and nausea.			
Signs And Symptoms Contact with skin and eyes may be irritating.			
Conditions Aggravated By Exposure May cause skin sensitization.			

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First Aid (Pictograms)



4. First Aid Measures

Eye

Call a physician or a poison control center immediately. In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. DO NOT let the victim rub his eye(s).

Skin

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash clothing before reuse.

Ingestion

Give two glasses of water. Never give anything by mouth to an unconscious victim. DO NOT INDUCE VOMITING, unless directed to do so by medical personnel. Get medical attention immediately.

Inhalation

Get medical attention immediately. If breathing is difficult, give oxygen. If inhaled, remove to fresh air.

5. Fire Fighting Measures

Flash Point: ND °F

Extinguishing Media

Use CO₂ (Carbon Dioxide), dry chemical, or foam.

Fire Fighting Instructions

Avoid breathing vapors, gases and fumes. Firefighters should wear self-contained breathing apparatus and full protective gear. Water can be used to cool and protect exposed material.

6. Accidental Release Measures

Clean up spill immediately. Contain and/or absorb spill with ground corn cob. Avoid rinsing into sewer. Use appropriate containers to avoid environmental contamination.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Use only with adequate ventilation. Wash thoroughly after handling.

Handling Precautions

Avoid contact with eyes. Avoid contact with skin and clothing. Avoid contact with strong acids and nitrates

Storage Precautions

Keep out of reach of children.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling. Use safe chemical handling procedures suitable for the hazards presented by this material.

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8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust recommended.

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

None normally required. If needed, use NIOSH approved respirator for organic vapors and mists.

9. Physical And Chemical Properties

Appearance

Blue viscous liquid

Odor

Slight

Chemical Type: Mixture

Physical State: Liquid

Melting Point: N/A °F

Boiling Point: Not Determined °F

Specific Gravity: 1.220-1.230 @ 24 deg C

Percent Volatiles: Not Determined

Vapor Pressure: Not Determined

Vapor Density: >1 (air = 1)

pH Factor: 10.3-10.5

Solubility: Miscible in water

Evaporation Rate: Not Determined

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Excessive heat. Thermal decomposition may cause oxides of carbon/nitrogen.

Incompatible Materials

Strong acids and nitrates.

Hazardous Decomposition Products

Oxides of Nitrogen and Carbon.

11. Toxicological Information

Acute Studies

Oral LD50 = 650-2420 mg/kg Rat*

Subacute Dietary LC50 = >2,500 ppm Leghorn Chicken*

Subacute Dietary LC50 = >1,000 ppm Ring-necked Pheasant**

Subacute Dietary LC50 = >1,000 ppm Mallard Duck**

*Data from 9% copper mixed ethanolamine complexes (Cutrine Plus).

**Data from 7.1% copper triethanolamine complexes (Cutrine).

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12. Ecological Information

Ecotoxicological Information

96 Hour LC50 = <3.0 mg/ Rainbow Trout (44ppm Total Hardness)**

96 Hour LC50 = 56 mg/l Rainbow Trout (290 ppm Total Hardness)**

96 Hour LC50 = 13.3 mg/l Bluegill (48 ppm Total Hardness)*

96 Hour LC50 = 83 mg/l Bluegill (200 ppm Total Hardness)*

96 Hour LC50 = 67 mg/l Channel Catfish**

96 Hour LC50 = 211 mg/l Blue Shrimp (Juvenile)*

96 Hour LC50 = 68 mg/l Grass Shrimp**

96 Hour LC50 = 2,200 mg/l Fiddler Crab**

*Data from 9% copper mixed ethanolamine complexes (Cutrine Plus).

**Data from 7.1% copper triethanolamine complexes (Cutrine).

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

14. Transport Information

Proper Shipping Name

CORROSIVE LIQUID, NOS (Copper Triethanolamine Complexes)

Hazard Class

8,PG III (<4L Consumer Commodity ORM-D)

DOT Identification Number

UN1760

DOT (Pictograms)



15. Regulatory Information

No Data Available...

NFPA		HMIS	
	HEALTH	2	
	FLAMMABILITY	1	
	REACTIVITY	1	
PERSONAL PROTECTION		D	

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW3

MSDS Preparer Phone Number: 770-521-5999

This MSDS Supercedes A Previous MSDS Dated: 10/21/2004

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes

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Applied Biochemists (WI)

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