

# MATERIAL SAFETY DATA SHEET

## AB Cutrine Plus

<b>1. Product And Company Identification</b>					
<b>Supplier</b> 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		<b>Manufacturer</b> Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States  Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com			
<b>Supplier Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300 ACEAN - DAY OR NIGHT: (800) 654-6911		<b>Manufacturer Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300 ACEAN - DAY OR NIGHT: (800) 654-6911			
<b>Issue Date:</b> 02/19/2010  <b>Product Name:</b> AB Cutrine Plus <b>Chemical Name:</b> Chelated Elemental Copper <b>Chemical Family:</b> Copper Algaecide <b>Chemical Formula:</b> Proprietary Mixture <b>MSDS Number:</b> 366					
<b>2. Composition/Information On Ingredients</b>					
		Ingredient Name	CAS Number		Percent Of Total Weight
		COPPER CARBONATE	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).					
<b>3. Hazards Identification</b>					
<b>Primary Routes(s) Of Entry</b> Eye Contact, Skin Contact					
<b>Eye Hazards</b> Corrosive to eyes.					
<b>Skin Hazards</b> May be corrosive to skin.					
<b>Ingestion Hazards</b> Harmful if swallowed. May cause burning of the mouth, throat and stomach.					
<b>Inhalation Hazards</b> Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, headache and nausea.					
<b>Signs And Symptoms</b> Contact with skin and eyes may be irritating.					
<b>Conditions Aggravated By Exposure</b> May cause skin sensitization.					

## AB Cutrine Plus

### 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.

### 8. Exposure Controls/Personal Protection

No Data Available...

## AB Cutrine Plus

### 8. Exposure Controls/Personal Protection - Continued

#### 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 Volitales:** 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).

### 12. Ecological Information

No Data Available...

## AB Cutrine Plus

### 12. Ecological Information - Continued

#### 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...

<b>NFPA</b>	<b>HMIS</b>								
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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 Superceeds A Previous MSDS Dated: 10/21/2004

#### Disclaimer

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**AB Cutrine Plus**

**Disclaimer - Continued**

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**Applied Biochemists (WI)**