

# MATERIAL SAFETY DATA SHEET

## AB Cutrine Plus Granular

1. Product And Company Identification			
<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, 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	
<b>Supplier Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300		<b>Manufacturer Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300	
Issue Date: 02/15/2007  Product Name: AB Cutrine Plus Granular Chemical Name: Chelated Elemental Copper CAS Number: Not Established Chemical Family: Granular Copper Algaecide Chemical Formula: Proprietary Mixture MSDS Number: 377			
2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
COPPERCARBONATE	12069-69-1		
CRYSTALLINE SILICA	14808-60-7		
MONOETHANOLAMINE	141-43-5		
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			
<b>Primary Routes(s) Of Entry</b> Eye Contact, Skin Contact			
<b>Eye Hazards</b> Can cause eye irritation.			
<b>Skin Hazards</b> May be irritating to skin.			
<b>Ingestion Hazards</b> May be harmful if swallowed.			
<b>Inhalation Hazards</b> Inhaled dust may be irritating to mucous membranes.			
<b>Chronic/Carcinogenicity Effects</b> This product contains clay. IARC has classified crystalline silica (a component of clay) as a probable human carcinogen. Prolonged contact may cause liver damage, kidney damage, and/or chronic muscle damage.			

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### 3. Hazards Identification - Continued

#### Signs And Symptoms

Contact with skin and eyes may be irritating.

#### Conditions Aggravated By Exposure

May cause skin sensitization.

### 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

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

Flammability Class: Not flammable

#### Fire And Explosion Hazards

Decomposition of wet chemical may cause auto-ignition above 150F.

#### Extinguishing Media

Use CO2 (Carbon Dioxide), dry chemical, water fog, 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. Sweep up and remove immediately. 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

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### 7. Handling And Storage - Continued

#### Storage Precautions

Keep out of reach of children. Store in a cool, dry place. Do not stack wet material.

#### 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

#### Engineering Controls

Local exhaust recommended.

#### Eye/Face Protection

Safety glasses with side shields or goggles.

#### Skin Protection

Chemical-resistant gloves (rubber or plastic).

#### Respiratory Protection

None normally required. If needed, use NIOSH approved respirator for dusts.

#### Ingredient(s) - Exposure Limits

COPPER CARBONATE

PEL = 1 mg/m<sup>3</sup> (as copper dusts and mists - CAS# 7440-50-8)

TLV = 1 mg/m<sup>3</sup> (as copper dusts and mists - CAS# 7440-50-8)

CRYSTALLINE SILICA

PEL = 0.1 mg/m<sup>3</sup>

TLV = 0.05 mg/m<sup>3</sup>

MONOETHANOLAMINE

PEL = 3ppm

TLV = 3 ppm

### 9. Physical And Chemical Properties

#### Appearance

Blue/Green granules

#### Odor

Amine, slight

Chemical Type: Mixture

Physical State: Solid

Melting Point: N/A °F

Boiling Point: Not Determined °F

Percent Volatiles: Not Determined

Packing Density: 1.2-1.3

Vapor Pressure: Not Determined

Solubility: Granules are insoluble; Chemical soluble

Evaporation Rate: Not Determined

### 10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

#### Conditions To Avoid (Stability)

Temperatures above 150F, especially if the material is damp.

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### 10. Stability And Reactivity - Continued

#### Incompatible Materials

Strong acids and nitrates.

#### Hazardous Decomposition Products

Oxides of Nitrogen and Carbon.

### 11. Toxicological Information

#### Acute Inhalation Effects

Acute Inhalation LC50 > 2.59 mg/L (Male and female rats)

### 12. Ecological Information

#### Ecotoxicological Information

### 13. Disposal Considerations

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

### 14. Transport Information

#### Proper Shipping Name

Not regulated

#### Hazard Class

Not regulated

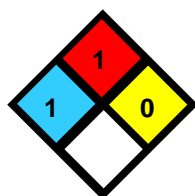
#### DOT Identification Number

NONE

### 15. Regulatory Information

No Data Available...

#### NFPA



#### HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

### 16. Other Information

#### Revision/Preparer Information

MSDS Preparer: JHW

This MSDS Superceeds A Previous MSDS Dated: 11/15/2006

#### Disclaimer

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**Disclaimer - Continued**

**Applied Biochemists (WI)**

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