

MATERIAL SAFETY DATA SHEET

AB Clearigate

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: 01/29/2007 Product Name: AB Clearigate CAS Number: Not Established Chemical Family: Copper Algaecide, Herbicide Chemical Formula: Proprietary MSDS Number: 372	

2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
COPPERCARBONATE	12069-69-1		
D-LIMONENE	5989-27-5		
MONOETHANOLAMINE	141-43-5		
SODIUM XYLENE SULFONATE	1300-72-7		
TALL OIL FATTY ACID	61790-12-3		
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).			

Hazards Identification (Pictograms)


3. Hazards Identification
Eye Hazards Corrosive to eyes.
Skin Hazards Corrosive to skin.
Ingestion Hazards Not expected to be a primary route of exposure.

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3. Hazards Identification - Continued

Inhalation Hazards

Vapors or mists may cause irritation with pain, coughing and discomfort to nose, throat, and chest.

Chronic/Carcinogenicity Effects

None known.

Conditions Aggravated By Exposure

May aggravate existing dermatitis and kidney disease.

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin

Rinse the affected area with tepid water for at least 15 minutes. Wash clothing before reuse.

Ingestion

Call a physician or a poison control center immediately. DO NOT INDUCE VOMITING, unless directed to by medical personnel. Give two glasses of water. Never give anything by mouth to an unconscious victim.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: 115 °F 46.1 °C

Flash Point Method: Tag closed cup

Fire And Explosion Hazards

None known.

Extinguishing Media

Water fog, carbon dioxide, or polymer foam for large fires.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Use appropriate personal protective equipment (PPE). Contain spill. Soak up with ground corn cob. Avoid rinsing into sewer. Place in a suitable container for disposal.

Handling & Storage (Pictograms)



7. Handling And Storage

No Data Available...

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7. Handling And Storage - Continued

Handling And Storage Precautions

Store at temperatures between 55F and 100F.

Handling Precautions

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. **Keep out of reach of children.**

Storage Precautions

Store at temperatures between 55F and 100F. Do not store in direct sunlight. NFPA Class II combustible liquid. Store in a cool, dry place.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust acceptable. Special exhaust not required.

Eye/Face Protection

Face shield or splash goggles.

Skin Protection

Rubber gloves.

Respiratory Protection

None normally required. In case of inadequate ventilation, use NIOSH-approved respirator for organic vapors and mists.

Other/General Protection

Use safe chemical handling procedures suitable for the hazards presented by this material.

Ingredient(s) - Exposure Limits

COPPER CARBONATE

PEL = 1 mg/m³*

TLV = 1 mg/m³*

*as copper dusts and mists (CAS# 7440-50-8)

MONOETHANOLAMINE

PEL = 3ppm

TLV = 3 ppm

9. Physical And Chemical Properties

Appearance

Blue, viscous liquid.

Odor

orange, citrus

Chemical Type: Mixture

Physical State: Liquid

Melting Point: NA °F

Specific Gravity: 1.04-1.05

Vapor Density: >1

pH Factor: 9.7-10.0

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9. Physical And Chemical Properties - Continued

Odor - Continued

Solubility: Miscible in water

Evaporation Rate: ND

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Avoid contact with strong acids and nitrates.

Incompatible Materials

Strong acids and nitrates.

Hazardous Decomposition Products

Oxides of nitrogen.

11. Toxicological Information

Acute Studies

LD50 Rat = 1.75 g/kg (oral)

LD50 Rat = 650 mg/kg (dermal)

12. Ecological Information

Ecotoxicological Information

Not available.

13. Disposal Considerations

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

14. Transport Information

Proper Shipping Name

Pesticides, Liquid, Toxic, Flammable, N.O.S. (Copper Triethanolamine Comoplex)

Hazard Class

6.1, PGIII (<=5L Consumer Commodity ORM-D)

DOT Identification Number

UN2903

Additional Shipping Paper Description

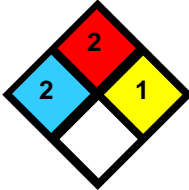
Subsidiary CORROSIVE label required per 49CFR 172.402(a)(2). NFPA Class II COMBUSTIBLE LIQUID

15. Regulatory Information

No Data Available...

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NFPA 	HMIS <table border="1"><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>2</td></tr><tr><td>REACTIVITY</td><td>1</td></tr><tr><td>PERSONAL PROTECTION</td><td>B</td></tr></table>	HEALTH	2	FLAMMABILITY	2	REACTIVITY	1	PERSONAL PROTECTION	B
HEALTH	2								
FLAMMABILITY	2								
REACTIVITY	1								
PERSONAL PROTECTION	B								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

Disclaimer

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Applied Biochemists (WI)

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