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# EMERGENCY

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FOR CHEMICAL EMERGENCY: SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY or NIGHT - (800) 424-9300

**AB CUTRINE PLUS** Product Name:

**SECTION I - GENERAL INFORMATION** 

Manufacturer's Name: APPLIED BIOCHEMISTS

W175 N11163 Stonewood Drive

Suite 234

Germantown, WI 53022-4799

(800) 558-5106

**AB CUTRINE PLUS** Trade Name & Synonyms:

Chemical Name & Synonyms: CHELATED ELEMENTAL COPPER

Generic Description: COPPER - ALGICIDE Formula: **PROPRIETARY** 

D.O.T. Proper Shipping Name: CORROSIVE LIQUID NOS (Copper Ethanolamine Complex)

D.O.T. Hazard Class: **EIGHT** 

U.N. or N.A. Identification #: UN 1760, PG III

D.O.T. Emergency Response Guide (1996 ed.): 154

Reactivity -1 Hazardous Mat'ls ID System Values (HMIS): Health -2 Flammability -0 Personal Protection -B Nat'l Fire Protection Assn. (NFPA 704M): Health -1 Flammability -0 Reactivity -1 Specific Hazard: \_\_\_\_\_\_

SECTION II - HAZARDOUS INGREDIENTS

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Hazardous Component(s) CAS# TLV

Copper Carbonate 12069-69-1 1 mg/m³
Monoethanolamine 141-43-53 ppm
Triethanolamine 100 7 1  $1 \text{ mg/m}^3$ 

3 ppm

Triethanolamine 102-71-6NOT ESTABLISHED NOT ESTABLISHED

Ingredients listed in this section have been determined to be hazardous as defined in 29 CFR 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 as provided in 29 CFR 1910.1200 (i)

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SECTION III - PHYSICAL DATA

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Boiling Point (F): 212°F

Specific Gravity (water = 1): 1.1 - 1.2
% Volatile (by Volume): NOT DETERMINED
Evaporation Rate: (Ether = 1) < 1 Vapor Pressure (mm Hg): NOT DETERMINED

Vapor Density (air = 1): > 1 Evaporation Rate:(Ether Melting Point (F): NOT APPLICABLE pH: Solubility in Water: MISCIBLE IN WATER Appearance & Odor: BLUE VISCOUS LIQUID. SLIGHT AMINE ODOR.

10.0-11.0

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SECTION IV - FIRE & EXPLOSION DATA

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Flash Point : NOT DETERMINED Method: TAG CLOSED CUP Extinguishing Media: CO₂, H₂O, DRY CHEMICAL. POLYMER FOAM FOR LARGE FIRES Special Fire Fighting Procedures: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire & Explosion Hazards: NONE

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**SECTION V - REACTIVITY DATA** 

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Stability -X Stable \_Unstable

Conditions to Avoid: AVOID CONTACT WITH STRONG ACIDS AND NITRATES.

Incompatibility (Materials to Avoid): STRONG ACIDS AND NITRITES.

Hazardous Decomposition Products: OXIDES OF NITROGEN

Hazardous Polymerization: Will Occur X Will Not Occur Conditions to Avoid: CONTACT WITH STRONG ACIDS AND NITRITES.

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#### **SECTION VI - HEALTH HAZARD DATA**

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Acute Health Hazards:  $LD_{50(RAT)} = 1930 mg/Kg$ : CORROSIVE TO SKIN

Chronic Health Hazards: NONE KNOWN

Signs & Symptoms of Exposure: CONTACT WITH SKIN AND EYES, VAPORS OR MISTS MAY CAUSE

IRRITATION WITH PAIN, COUGHING AND DISCOMFORT TO EYES,

NOSE, THROAT AND CHEST.

Medical Conditions Generally

Aggravated by Exposure: MAY CAUSE SKIN SENSITIZATION.

Chemical Listed as Carcinogen or Potential Carcinogen by:

National Toxicology Program: Yes: No: ✓
I.A.R.C. Monographs: Yes: No: ✓
O.S.H.A. Yes: No: ✓

Emergency & First Aid Procedures: FOR PRINCIPLE ROUTE OF ENTRY, SEE APPROPRIATE EMERGENCY

PROCEDURES BELOW.

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Route of Entry: Inhalation: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NECESSARY.

Eyes: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

GET MEDICAL ATTENTION.

Skin: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

WASH CLOTHES THOROUGHLY BEFORE REUSE.

Ingestion: IF INGESTED, GET IMMEDIATE MEDICAL ATTENTION.

#### **SECTION VII - SPILL OR LEAK PROCEDURES**

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Steps to be Taken in Case Material is Released or Spilled:

SOAK UP WITH APPROPRIATE ABSORBENT THAT DOES NOT CONTAIN CLAYS. GROUND CORNCOB IS THE IDEAL ABSORBENT.

DO NOT FLUSH INTO SANITARY SEWERS.

Waste Disposal Methods: INCINERATE IN A FURNACE. MORE THAN 5 (FIVE) GALLONS,

CONTACT LOCAL AUTHORITIES FOR DIRECTIONS.

### SECTION VIII - SPECIAL PROTECTION AND CONTROL MEASURES

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Respiratory Protection (Specify Type): NOT REQUIRED

Ventilation - Local Exhaust: ACCEPTABLE Special Exhaust:: NOT REQUIRED

Mechanical Exhaust: ACCEPTABLE Other Exhaust: NOT REQUIRED

Protective Equipment - Gloves: RUBBER Eye Protection: SPLASH GOGGLES

OR FACE SHIELD

Other Protective Equipment: EYEWASH AND SAFETY SHOWER SHOULD BE AVAILABLE WITHIN

THE IMMEDIATE WORKING AREA.

Work or Hygienic Practices: USE SAFE CHEMICAL HANDLING PROCEDURES SUITABLE

FOR THE HAZARDS PRESENTED BY THIS MATERIAL.

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## **SECTION IX - SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling and Storage: STORE AT TEMPERATURES BETWEEN 32°F AND 100°F.

DO NOT STORE IN DIRECT SUNLIGHT

Other Precautions: DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE, DISPOSAL OR

CLEANING OF EQUIPMENT. STORE IN A COOL, DRY PLACE.

### **KEEP OUT OF REACH OF CHILDREN**

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THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

JK Date of Last Revision: 10/08/03