

Material Safety Data Sheet

EMERGENCY

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

Product Name: **AB CUTRINE PLUS**

SECTION I - GENERAL INFORMATION

Manufacturer's Name: Applied Biochemists
A division of Advantis Technologies, Inc.
W175 N11163 Stonewood Dr., Suite 234
Germantown, WI 53022
(262) 255-4449

Chemical Name & Synonyms: Chelated Elemental Copper
Generic Description: Copper Algaecide
Formula: Proprietary
D.O.T. Proper Shipping Name: Corrosive Liquid, N.O.S. (Copper Triethanolamine Complexes)
D.O.T. Hazard Class: 8, PGIII (≤4L Consumer Commodity ORM-D)
U.N. or N.A. Identification No.: UN1760
Emergency Response Guide No.: 154

Hazardous Mat'ls ID System Values (HMIS): Health - 2 Flammability - 1 Reactivity - 1 Personal Protection - D
Nat'l Fire Protection Assn. (NFPA 704M): Health - 2 Flammability - 1 Reactivity - 1 Specific Hazard - None

SECTION II - HAZARDOUS INGREDIENTS

<u>Hazardous Component(s)</u>	<u>CAS#</u>	<u>PEL</u>	<u>TLV</u>
Copper Carbonate	12069-69-1	1 mg/m ³ *	1 mg/m ³ *
Monoethanolamine	141-43-53 ppm		3 ppm
Triethanolamine	102-71-6	Not established	Not established

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

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR1910.1200. 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 29CFR1910.1200 (i) (1).

SECTION III - PHYSICAL DATA

Boiling Point: Not determined Specific Gravity (water = 1): 1.220 – 1.230 @24°C
Vapor Pressure: Not determined % Volatile (by volume): Not determined
Vapor Density (air = 1): >1 Evaporation Rate: Not determined
Melting Point: Not applicable pH: 10.3-10.5
Solubility in Water: Miscible in water.
Appearance & Odor: Blue viscous liquid, slight odor

SECTION IV - FIRE & EXPLOSION DATA

Flash Point: Not Determined Method:
Extinguishing Media: Water fog, carbon dioxide, or dry chemical.
Special Fire Fighting Procedures: Use NIOSH approved self-contained breathing apparatus. Cool area to prevent product containers from bursting or melting.
Unusual Fire & Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability - Unstable X Stable
Conditions to Avoid: Thermal decomposition products may cause oxides of carbon/nitrogen.
Incompatibility (Materials to Avoid): Strong acid and nitrates.
Hazardous Decomposition Products: Oxides of nitrogen.
Hazardous Polymerization: Will Occur X Will Not Occur
Conditions to Avoid: Contact with strong acids and nitrates.

AB CUTRINE PLUS

SECTION VI - HEALTH HAZARD DATA

Acute Health Hazards:	Corrosive to skin and eyes. Harmful if swallowed.
Chronic Health Hazards:	None known.
Signs & Symptoms of Exposure:	Causes irritation of the eyes, experienced as pain, with excess blinking and tear production with swelling and chemical burns of the eye. Causes severe irritation of the skin with pain, reddening and swelling. Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, headache, nausea. Causes burning of the mouth, throat and stomach.
Medical Conditions Generally Aggravated by Exposure:	May cause skin sensitization.
Emergency & First Aid Procedures:	See appropriate emergency procedures below for principle route of entry. Never give anything by mouth to an unconscious person.
Route of Entry:	Inhalation: Remove to fresh air.
	Eyes: Flush with large amounts of water for at least 15 minutes. Get immediate medical attention.
	Skin: Wash the area with large amounts of soap and water for at least 15 minutes. Wash clothes thoroughly before reuse.
	Ingestion: Seek medical attention immediately. Give two glasses of water but do not induce vomiting, unless directed to by medical personnel.

SECTION VII - SPILL OR LEAK PROCEDURES

Personal Precautions:	Wear personal protective equipment appropriate for the situation.
Methods for Cleaning Up:	Contain spill. Soak up with ground corn cob. Avoid rinsing into sewer. Place in a suitable container for disposal.
Waste Disposal Methods:	Dispose of in accordance with methods approved by local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION AND CONTROL MEASURES

Respiratory Protection:	Not normally required. If needed, use NIOSH approved respirator for organic vapors and mists.
Ventilation:	Not normally required.
Gloves:	Rubber
Eye Protection:	Face shield or splash goggles
Other Protective Equipment:	None
Work or Hygienic Practices:	Use safe chemical handling procedures suitable for the hazards presented by this material.

SECTION IX - SPECIAL PRECAUTIONS

Handling and Storage:	May cause skin or eye damage. Do not get on skin, eyes, or clothing.
Other:	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

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.

Date of Last Revision: 04/07/04 by: JHW/NPB