FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: AB CUTRINE-PLUS

# **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

<u>Supplier</u> REVISION DATE: 05/27/2015 <u>Applied Biochemists (WI)</u> SUPERCEDES: 02/19/2010

W175 N11163 Stonewood Drive,

Suite 234

Germantown, WI, 53022 MSDS Number: 000000024433 SYNONYMS:

CHEMICAL FAMILY: None

Telephone: +12622554449 Telefax: +12622554449

Web: www.appliedbiochemists.com

DESCRIPTION / USE None established FORMULA: None established

# Manufacturer

USA

Advantis Technologies 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 4

Eye irritation : Category 2B

Specific target organ toxicity -

single exposure

Category 3 (Respiratory system)

**GHS Label element** 

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Hazard pictograms :



Signal word : Warning

Hazard statements : H227 Combustible liquid.

H320 Causes eye irritation.

H335 May cause respiratory irritation.

Precautionary statements : **Prevention:** 

P210 Keep away from heat/sparks/open flames/hot surfaces. - No

smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or

doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel

unwell.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

### Other hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS OR CHEMICAL NAMECAS #% RANGETriethanolamine102-71-619 - 29

Ethanolamine 141-43-5 15 - 25

AB CUTRINE-PLUS

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BASIC COPPER CARBONATE

12069-69-1

11 - 21

# **SECTION 4. FIRST AID MEASURES**

General Advice: Call a poison control center or doctor for treatment advice. For 24-hour

emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

Inhalation: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

Skin Contact: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin

immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Eye Contact: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment

advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give

anything by mouth to an unconscious person.

## **SECTION 5. FIREFIGHTING MEASURES**

Flammability Summary (OSHA): The product is not flammable., Not combustible., Not explosive, The

substance or mixture is not classified as pyrophoric.

Flammable Properties

Ingestion:

Fire / Explosion Hazards: 0 - Will not burn

Extinguishing Media: Carbon dioxide (CO2) Dry chemical Foam

Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use

normal fire-fighting equipment and the personal protective

equipment recommended in Section 8 to include a NIOSH approved

self-contained breathing apparatus.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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Personal Protection for Emergency

Situations:

Use the personal protective equipment recommended in Section 8

and a NIOSH approved self-contained breathing apparatus.

**Spill Mitigation Procedures** 

Air Release: Keep people away from and upwind of spill/leak.

Water Release: If the product contaminates rivers and lakes or drains inform

respective authorities.

Land Release: Contain spillage, soak up with non-combustible absorbent material,

(e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). The product should not be allowed to enter drains, water

courses or the soil.

Additional Spill Information: Prevent further leakage or spillage if safe to do so. Evacuate

personnel to safe areas. Use personal protective equipment as

required.

## **SECTION 7. HANDLING AND STORAGE**

Handling: Do not take internally. Avoid contact with skin, eyes and clothing.

Upon contact with skin or eyes, wash off with water. Avoid breathing

mist or vapor.

Storage: Store in a cool, dry and well ventilated place. Isolate from

incompatible materials.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible., A NIOSH approved air purifying respirator with organic vapor cartridge and N95 particulate filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations

exceed ten (10) times the published limit.

Skin Protection: Avoid contact with skin. Impervious gloves

Eye Protection: Safety glasses with side-shields

Protective Clothing Type: impervious clothing

Operated Destroy

General Protective Emergency eyewash should be provided in the immediate work area.

Measures:

### Components with workplace control parameters

Components (CAS-No.)	Value	Control	Basis (Update)
		parameters	

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Triethanolamine (102-71-6)	TWA	5 mg/m3	ACGIH (02 2014)
Ethanolamine (141-43-5)	TWA	3 ppm	ACGIH (02 2014)
	STEL	6 ppm	ACGIH (02 2014)
BASIC COPPER CARBONATE (12069-69-1)	Conc	100 mg/m3	NIOSH/GUIDE (2005)

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: liquid Form No data. Color: No data. Odor: No data.

None established Molecular Weight: pH: 10.3 - 10.5

**Boiling Point:** no data available

Melting point/freezing No data

point

Density Not applicable

**Bulk Density:** ()

no data available no data available Vapor Pressure:

Vapor Density: > 1

(Air = 1.0)

no data available no data available Viscosity:

Solubility in Water: completely miscible

Partition coefficient n-

octanol/water:

No data.

**Evaporation Rate:** no data available Oxidizing: None established Volatiles, % by vol.: no data available

**VOC Content** no data available This product does not contain any chemicals

> listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any

VOC exemptions listed under the U.S. Clean Air Act Section 450.

Not applicable **HAP Content** 

## **SECTION 10. STABILITY AND REACTIVITY**

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: High temperatures Chemical Incompatibility: Strong acids, Nitrates

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx)

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REVISION DATE: 05/27/2015 Page 5 of 11 Decomposition Temperature: No data

## SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Triethanolamine LD50 = 7,390 mg/kg Rat Ethanolamine LD50 = 1,700 mg/kg Rat BASIC COPPER LD50 = 1,350 mg/kg Rat

**CARBONATE** 

Component Animal Toxicology

Dermal LD50 value:

Triethanolamine LD50 > 2,000 mg/kg Rabbit

Ethanolamine LD50 Approximately 1,000 mg/kg Rabbit

BASIC COPPER no data available

**CARBONATE** 

Component Animal Toxicology

Inhalation LC50 value:

Triethanolamine A saturated vapor concentration for 8 hours (rats) did not produce any deaths.

Ethanolamine LC50 1 h > 2.42 mg/l Mouse

LC50 4 h > 970 ppm Mouse

BASIC COPPER no data available

CARBONATE

**Product Animal Toxicity** 

Oral LD50 value: LD50 Believed to be approximately 3,790 mg/kg Rat

Dermal LD50 value: LD50 Believed to be > 2,000 mg/kg Rabbit

Inhalation LC50 no data available

value:

Skin Irritation: Not expected to be irritating to the skin.

Eye Irritation: slight irritation

Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer.

Triethanolamine This material tested negative for skin sensitization in

animals.

Ethanolamine This material tested negative for skin sensitization in

animals.

Acute Toxicity: May cause mild eye irritation. Ingestion may cause mild gastrointestinal

discomfort.Inhalation of mist or vapor may cause irritation to the mucous

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membranes of the respiratory tract.

Subchronic / Chronic Not known or reported to cause subchronic or chronic toxicity.

Toxicity:

Triethanolamine Animal studies suggest that chronic (repeated)

overexposure may result in damage to the liver and

kidney.

Reproductive and

**Developmental Toxicity:** 

Not known or reported to cause reproductive or developmental toxicity.

Triethanolamine

This product has been tested and was shown not to produce any adverse effects on reproductive function or

fetal development when administered to laboratory

animals.

Ethanolamine This chemical has been tested in laboratory animals

and no evidence of teratogenicity, embryotoxicity or

fetotoxicity was seen.

Mutagenicity: Not known or reported to be mutagenic.

Triethanolamine This chemical has been shown to be non-mutagenic

based on a battery of assays.

Ethanolamine This chemical has been tested in a battery of

mutagenicity/genotoxicity assays and the results were

negative.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

Triethanolamine The International Agency for Research on Cancer

(IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as

to Its Carcinogenicity to Humans.

Ethanolamine This product is not known or reported to be carcinogenic

by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown

not to cause cancer in laboratory animals.

### SECTION 12. ECOLOGICAL INFORMATION

Overview: Toxic to fish and other aquatic organisms.

**Ecological Toxicity Values for:** Triethanolamine

Pimephales promelas (fathead - (measured, flow-through) 96 h LC50 = 11,800 mg/l

minnow)

Daphnia magna, - (nominal, static). 24 h EC50= 1,850 mg/l

Common shrimp (Crangon - (nominal, renewal). 48 h LC50> 100 mg/l

crangon)

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Green algae (Scenedesmus subspicatus)

(nominal, static). 48 h EC50 = 750 mg/l

Ecological Toxicity Values for: Ethanolamine

Rainbow trout (Oncorhynchus - (nominal, static). 96 h LC50 = 150 mg/l

mykiss)

Mosquito fish
- (nominal, static). 96 h LC50 = 337.5 mg/l
Bluegill
- (nominal, static). 96 h LC50 = 329.16 mg/l

Pimephales promelas (fathead - (measured, flow-through) 96 h LC50 = 2,070 mg/l

minnow)

Goldfish - (measured, static) 96 h LC50 = 170 mg/l Daphnia magna (Water flea) - (nominal, static). 24 h LC50= 140 mg/l

Crangon crangon (shrimp) - (nominal, static). 24 ft LC50= 140 ftg/l

Brine shrimp - 48 h LC50= 7,100 mg/l
Daphnia magna (Water flea) - 48 h EC50= 65 mg/l

# **SECTION 13. DISPOSAL CONSIDERATIONS**

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it DOES NOT meet the criteria of a

hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it

listed as a hazardous waste under Subpart D.

Disposal Methods: As a nonhazardous liquid waste, it should be disposed of in

accordance with local, state and federal regulations.

## **SECTION 14. TRANSPORT INFORMATION**

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

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#### **IMDG-CODE**

Not dangerous goods

## **SECTION 15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : CAUTION!

Hazard statements : Harmful if swallowed.

Harmful if absorbed through skin. Causes moderate eye irritation.

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-Iminodiethanol	111-42-2	100	

### **SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

copper carbonate 12069-69-1

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

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This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

	copper carbonate	12069-69-1	16.55 %
US State Regulations			
Massachusetts Right To Know			
	2,2',2"-Nitrilotriethanol	102-71-6	
	2-Aminoethanol	141-43-5	
Pennsylvania Right To Know			
	2,2',2"-Nitrilotriethanol	102-71-6	
	2-Aminoethanol	141-43-5	
	copper carbonate	12069-69-1	
New Jersey Right To Know			
	2,2',2"-Nitrilotriethanol	102-71-6	
	2-Aminoethanol	141-43-5	
	copper carbonate	12069-69-1	

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer.

2,2'-Iminodiethanol 111-42-2

The components of this product are reported in the following inventories:

TSCA : This product is regulated under the Federal Insecticide,

Fungicide and Rodenticide Act. It must be used for purposes

consistent with its labeling.

**Inventories** 

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

## **SECTION 16. OTHER INFORMATION**

SECTIONS REVISED: First formulated version in SAP.

Major References: Available upon request.

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THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

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