

# SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE  
USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE  
USA: 1-703-527-3887)

1-800-511-MSDS (OUTSIDE  
USA: 1-423-780-2347)

PRODUCT NAME: **AB CUTRINE-PLUS**

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Supplier

Applied Biochemists (WI)  
W175 N11163 Stonewood Drive ,  
Suite 234  
Germantown, WI, 53022  
USA

Telephone: +12622554449

Telefax: +12622554449

Web: [www.appliedbiochemists.com](http://www.appliedbiochemists.com)

REVISION DATE: 05/27/2015

SUPERCEDES: 02/19/2010

MSDS Number: 000000024433

SYNONYMS:

CHEMICAL FAMILY: None

DESCRIPTION / USE: None established

FORMULA: None established

### Manufacturer

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

AB CUTRINE-PLUS

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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**

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Triethanolamine	102-71-6	19 - 29
Ethanolamine	141-43-5	15 - 25

BASIC COPPER CARBONATE

12069-69-1

11 - 21

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## 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.
- Ingestion:** 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.

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## 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

- 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.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

**Components with workplace control parameters**

Components (CAS-No.)	Value	Control parameters	Basis (Update)
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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.
Molecular Weight:	None established
pH :	10.3 - 10.5 ( )
Boiling Point:	no data available
Melting point/freezing point	No data
Density	Not applicable
Bulk Density:	( ) no data available
Vapor Pressure:	no data available
Vapor Density:	> 1 (Air = 1.0)
Viscosity:	no data available no data available
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 SOCM I 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.
HAP Content	Not applicable

**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)

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 CARBONATE	LD50 = 1,350 mg/kg	Rat

### Component Animal Toxicology

#### Dermal LD50 value:

Triethanolamine	LD50 > 2,000 mg/kg	Rabbit
Ethanolamine	LD50 Approximately 1,000 mg/kg	Rabbit
BASIC COPPER CARBONATE	no data available	

### 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 CARBONATE	no data available	

### 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 value: no data available

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.
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Ethanolamine	This material tested negative for skin sensitization in animals.
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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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Subchronic / Chronic Toxicity: membranes of the respiratory tract.  
Not known or reported to cause subchronic or chronic 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 minnow) - (measured, flow-through) 96 h LC50 = 11,800 mg/l  
Daphnia magna, - (nominal, static). 24 h EC50= 1,850 mg/l  
Common shrimp (Crangon crangon) - (nominal, renewal). 48 h LC50> 100 mg/l

Green algae (*Scenedesmus subspicatus*) - (nominal, static). 48 h EC50 = 750 mg/l

**Ecological Toxicity Values for: Ethanolamine**

- Rainbow trout (*Oncorhynchus mykiss*) - (nominal, static). 96 h LC50 = 150 mg/l
- Mosquito fish - (nominal, static). 96 h LC50 = 337.5 mg/l
- Bluegill - (nominal, static). 96 h LC50 = 329.16 mg/l
- Pimephales promelas (fathead minnow) - (measured, flow-through) 96 h LC50 = 2,070 mg/l
- 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, renewal). 48 h LC50> 100 mg/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 SOCM 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 %
<b>US State Regulations</b>			
<b>Massachusetts Right To Know</b>	2,2',2''-Nitrilotriethanol	102-71-6	
	2-Aminoethanol	141-43-5	
<b>Pennsylvania Right To Know</b>	2,2',2''-Nitrilotriethanol	102-71-6	
	2-Aminoethanol	141-43-5	
	copper carbonate	12069-69-1	
<b>New Jersey Right To Know</b>	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
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## 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)

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## SECTION 16. OTHER INFORMATION

SECTIONS REVISED: First formulated version in SAP.  
Major References : Available upon request.

## SAFETY DATA SHEET

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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