

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: APPLIED BIOCHEMISTS ALGAETRINE

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Supplier Applied Biochemists 1400 Bluegrass Lakes Parkway , Alpharetta, GA, 30004 USA

Telephone: +17705215999 Telefax: +17705215999 Web: www.poolspacare.com

<u>Manufacturer</u> Advantis Technologies 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America REVISION DATE: SUPERCEDES:

05/26/2015 10/08/2010

MSDS Number: SYNONYMS: CHEMICAL FAMILY: DESCRIPTION / USE FORMULA: 00000024396

None None established None established

# **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification		
Skin irritation	:	Category 2
Eye irritation	:	Category 2B
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)

### **GHS Label element**



## SAFETY DATA SHEET

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 + H320 Causes skin and eye irritation. H335 May cause respiratory irritation.
Precautionary statements	:	<ul> <li>Prevention:</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves.</li> <li>Response:</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>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.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332 + P313 If skin irritation occurs: Get medical advice/ attention.</li> <li>P362 Take off contaminated clothing and wash before reuse.</li> <li>Storage:</li> <li>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>

#### Other hazards

None known.

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

CAS OR CHEMICAL NAME Triethanolamine	<u>CAS #</u> 102-71-6	<u>% RANGE</u> <10
Ethanolamine	141-43-5	< 10
BASIC COPPER CARBONATE	12069-69-1	< 10



# **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.

## **SECTION 5. FIREFIGHTING MEASURES**

Flammability Summary (OSHA):	The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive
Flammable Properties	
Flash Point:	Not applicable
Fire / Explosion Hazards:	0 - Will not burn
Extinguishing Media:	Use extinguishing measures that are appropriate to local
	circumstances and the surrounding environment.
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.

## **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:	Not applicable
Water Release:	solublelf the product contaminates rivers and lakes or drains inform respective authorities. If the product contaminates rivers and lakes or drains inform respective authorities. soluble
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).Do not contaminate ponds, waterways or ditches with chemical or used container.
Additional Spill Information :	Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

# **SECTION 7. HANDLING AND STORAGE**

Handling:

Storage:

Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapours, mist or gas. Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze. 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	Emergency eyewash should be provided in the immediate work area.
Measures:	

### Components with workplace control parameters

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



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: Form Color: Odor: Molecular Weight: pH :	liquid liquid dark blue faint None established 9.0 - 10.5 ()
Boiling Point:	212 °F (100 °C)
Melting point/freezing point	Not applicable
Density	Not applicable
Bulk Density:	() no data available
Vapor Pressure: Vapor Density: Viscosity:	no data available no data available Not applicable 1.592 mm2/s 68 °F (20 °C) ASTM D 445
Solubility in Water: Partition coefficient n- octanol/water:	soluble No data.
Evaporation Rate: Oxidizing:	No data None established
Volatiles, % by vol.: 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.
HAP Content	Not applicable

## SECTION 10. STABILITY AND REACTIVITY



Stability and Reactivity Summary: Conditions to Avoid: Chemical Incompatibility: Hazardous Decomposition Products: Decomposition Temperature:

Stable under normal conditions. Heat Acids, NitritesOxidizing agents Hydrogen chloride gas, Carbon oxides, Nitrogen oxides (NOx) 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 da	ta available	

Component Animal Tox Inhalation LC50 value: Triethanolamine	<u>xicology</u> 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 ToxicityOral LD50 value:LD50Dermal LD50 value:LD50Inhalation LC50no data availablevalue:Value:						
Skin Irritation: Eye Irritation:	Not expected to be irritating to the skin. slight irritation					
Skin Sensitization:	This material is not known or reported to be a skin or respiratory sensitizer.					
Triethanolami	ne This material tested negative for skin sensitization in animals.					



Ethanolamine		This material tested negative for skin sensitization in animals.				
Acute Toxicity:		tion. Ingestion may cause mild gastrointestinal nist or vapor may cause irritation to the mucous atory tract				
Subchronic / Chronic Toxicity:		known or reported to cause subchronic or chronic toxicity.				
Triethanolamir	ne	Animal studies suggest that chronic (repeated) overexposure may result in damage to the liver and kidney.				
Reproductive and Developmental Toxicity:		ted to cause reproductive or developmental toxicity.				
Triethanolamir	ne	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 repor		ted to be mutagenic.				
Triethanolamir	ne	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.				
		known or reported to be carcinogenic by any reference RC, OSHA, NTP or EPA.				
Triethanolamir	ne	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:

No data for product. Individual constituents are as follows: There is no data available for this product.



### 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)		
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	-	(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, 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.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

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.
		Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. This pesticide is toxic to fish.

### 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**

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	4 %	
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		
PLIED BIOCHEMISTS AL GAETRINE				



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

TSCA

: This is an EPA registered pesticide.

### 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: Major References : 2, 4, 8, 11 Available upon request.

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.