



Applied Biochemists Swimtrine Plus

1. Product And Company Identification

<p>Supplier Applied Biochemists 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com</p>	<p>Manufacturer Advantis Technologies 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com</p>
<p>Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300 ACEAN - DAY OR NIGHT: (800) 654-6911</p>	<p>Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300 ACEAN - DAY OR NIGHT: (800) 654-6911</p>

Issue Date: 03/20/2009
Product Name: Applied Biochemists Swimtrine Plus
Chemical Name: Copper and Nitrogen compounds
Chemical Family: Copper Alkanolamine Complex
Chemical Formula: Proprietary Mixture
MSDS Number: 269

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
CITRIC ACID	77-92-9	
COPPER CARBONATE	12069-69-1	
MONOETHANOLAMINE	141-43-5	
TRIETHANOLAMINE	102-71-6	

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 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 in 29CFR 1910.1200(i)(1).

3. Hazards Identification

Primary Routes(s) Of Entry

Eye Contact, Skin Contact

Eye Hazards

Corrosive to eyes.

Skin Hazards

Causes skin irritation.

Ingestion Hazards

If ingested, get immediate medical attention

Inhalation Hazards

May cause coughing and discomfort to eyes nose and throat, and chest.

Signs And Symptoms

Contact with skin and eyes may be irritating.

Applied Biochemists Swimtrine Plus

First Aid (Pictograms)



4. First Aid Measures

Eye

Call a physician or a poison control center immediately. In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. DO NOT let the victim rub his eye(s).

Skin

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash clothing before reuse.

Ingestion

Give two glasses of water. Get medical attention immediately.

Inhalation

Do not give an unconscious person anything to drink. Get medical attention immediately. If breathing is difficult, give oxygen. If inhaled, remove to fresh air.

5. Fire Fighting Measures

Flash Point: n/a °F

Extinguishing Media

Use CO₂ (Carbon Dioxide), dry chemical, or foam.

Fire Fighting Instructions

Avoid breathing vapors, gases and fumes. Firefighters should wear self-contained breathing apparatus and full protective gear. Water can be used to cool and protect exposed material.

6. Accidental Release Measures

Clean up spill immediately. Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Flood with water. Use appropriate containers to avoid environmental contamination.

Handling & Storage (Pictograms)



7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Use only with adequate ventilation. Wash thoroughly after handling.

Handling Precautions

Avoid contact with eyes. Avoid contact with skin and clothing. Avoid contact with eyes. Avoid contact with skin and clothing. Avoid contact with strong acids and nitrates

Storage Precautions

Keep out of reach of children.

Non-refillable container; residential/household use:

Keep this product in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. For disposal of a contaminated or

Applied Biochemists Swimtrine Plus

7. Handling And Storage - Continued

Storage Precautions - Continued

decomposing product see emergency handling.

Non-refillable container; non-household/residential use:

Keep this product in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. For disposal of a contaminated or decomposing product see emergency handling.

Work/Hygienic Practices

Wash thoroughly with soap and water after handling. Use safe chemical handling procedures suitable for the hazards presented by this material.

8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust recommended.

Eye/Face Protection

Safety glasses with side shields or goggles.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

None normally required.

Ingredient(s) - Exposure Limits

MONOETHANOLAMINE

6 ppm STEL-ACGIH

3ppm TWA-OSHA

6 ppm STEL-OSHA

3 ppm TWA-ACGIH

TRIETHANOLAMINE

5 mg/m³ TWA-ACGIH

9. Physical And Chemical Properties

Appearance

Blue viscous liquid

Odor

Slight

Chemical Type: Mixture

Physical State: Liquid

Melting Point: N/A °F

Boiling Point: 212 °F

Specific Gravity: 1.250-1.300

Percent Volitales: NOT DETERMINED

Vapor Pressure: NOT DETERMINED

pH Factor: 9.7-10.3

Solubility: Soluble in Water

Evaporation Rate: <1

Applied Biochemists Swimtrine Plus

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Excessive heat. Thermal decomposition may occur.

Incompatible Materials

Acids and Nitrites

Hazardous Decomposition Products

Oxides of Nitrogen and Carbon and Hydrogen Chloride

11. Toxicological Information

Ingredient(s) - Toxicological Data

MONOETHANOLAMINE

Oral: LD50 Believed to be >1.00 - 2.00 g/kg (rat) moderately toxic

Inhalation: Not determined

Dermal: LD50 >1.00 g/kg (rabbitt) slightly toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Skin: (Draize) Believed to be >6.50 - 8.00/8.0 (rabbitt) corrosive

Eyes:(Draize) Believed to be >80.00 - 110.00/110 (rabbitt) extremely irritating

Sensitization: Not determined

TRIETHANOLAMINE

Oral: LD50 Believed to be >2.00 - 5.00 g/kg (rat) slightly toxic

Inhalation: Not Determined

Dermal: LD50 >10.00 g/kg (rabbitt) practically non-toxic

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Skin: (Draize) Believed to be >0.50 - 3.00 / 8.0 (rabbitt) slightly irritating

Eyes: (Draize) Believed to be 15.00 - 25.00 / 110 (rabbitt) Slightly irritating

Sensitization: (Buehler) Negative - skin (guinea pig)

12. Ecological Information

No Data Available...

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

Non-refillable container; residential/household use:

Keep this product in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. For disposal of a contaminated or decomposing product see emergency handling.

Non-refillable container; non-household/residential use:

Keep this product in its tightly closed container when not in use. Store in a cool, dry, well-ventilated area. Keep away from heat or open flame. Nonrefillable container. Do not reuse or refill this container. Rinse empty container thoroughly with water to dissolve all material prior to disposal. Offer for recycling if available. Do not contaminate food or feed by storage or disposal or cleaning of equipment. For disposal of a contaminated or decomposing product see emergency handling.

14. Transport Information

No Data Available...

MATERIAL SAFETY DATA SHEET

Applied Biochemists Swimtrine Plus

14. Transport Information - Continued

Proper Shipping Name

CORROSIVE LIQUIDS, NOS(Copper Triethanolamine Complex)

Hazard Class

8,PG III (<4L ORM-D)

DOT Identification Number

UN1760

DOT (Pictograms)



15. Regulatory Information

Ingredient(s) - U.S. Regulatory Information

COPPER CARBONATE

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

SARA - Acute Health Hazard

SARA - Chronic Health Hazard

Ingredient(s) - Canadian Regulatory Information

COPPER CARBONATE

WHMIS - Ingredient Disclosure List

MONOETHANOLAMINE

WHMIS - Ingredient Disclosure List

NFPA	HMIS								
	<table border="1"><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>1</td></tr><tr><td>PERSONAL PROTECTION</td><td>B</td></tr></table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	B
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	B								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW3

MSDS Preparer Phone Number: 770-521-5999

This MSDS Superceeds A Previous MSDS Dated: 04/18/2001

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Applied Biochemists