



# MATERIAL SAFETY DATA SHEET

Applied Biochemists HCL Advantage

1. Product And Company Identification			
<b>Supplier</b> 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	<b>Manufacturer</b> Advantis Technologies Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States  Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com		
<b>Supplier Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300		
<b>Issue Date:</b> 12/19/2002  <b>Product Name:</b> Applied Biochemists HCL Advantage <b>CAS Number:</b> Not Established <b>Chemical Family:</b> Acid <b>Chemical Formula:</b> Proprietary Mixture <b>MSDS Number:</b> 293			
2. Composition/Information On Ingredients			
	Ingredient Name	CAS Number	Percent Of Total Weight
	1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONICACID	2809-21-4	
	PHOSPHORICACID	7664-38-2	
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			
<b>Primary Routes(s) Of Entry</b> Skin Contact			
<b>Eye Hazards</b> Corrosive to eyes. Causes irreversible eye damage.			
<b>Skin Hazards</b> Causes skin irritation.			
<b>Ingestion Hazards</b> If ingested, get immediate medical attention			
<b>Inhalation Hazards</b> Causes respiratory tract irritation.			
<b>Signs And Symptoms</b> Irritation of Eyes and Respiratory Passages			

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### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

#### Skin

In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

#### Ingestion

Drink large amounts of water or milk. **Do not induce vomiting.** Contact a physician or poison control.

#### Inhalation

If inhaled, remove to fresh air. Consult a physician. If breathing is difficult, give oxygen.

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point:** n/a °F

#### Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

#### Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

### 6. Accidental Release Measures

Clean up spill immediately. Contain and/or absorb spill with inert material (e.g. sand, vermiculite) or soda ash. May be flushed 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. Store material in a cool and dry place. Store in sealed containers.

#### Storage Precautions

Store in a cool dry place.

#### Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presented by this material.

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### Protective Clothing (Pictograms)



### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Local exhaust acceptable. Special exhaust not required

#### Eye/Face Protection

Safety glasses with side shields or goggles.

#### Skin Protection

Chemical-resistant gloves.

#### Respiratory Protection

General room ventilation is normally adequate.

#### Ingredient(s) - Exposure Limits

PHOSPHORIC ACID

PEL	TLV
1mg/m <sup>3</sup>	1mg/m <sup>3</sup>

### 9. Physical And Chemical Properties

#### Appearance

Pale Amber liquid

#### Odor

Mild

**Chemical Type:** Mixture

**Physical State:** Liquid

**Melting Point:** n/a °F

**Boiling Point:** 212 °F

**Specific Gravity:** 1.05-1.07

**Molecular Weight:** NOT DETERMINED

**Percent Volitales:** NOT DETERMINED

**Vapor Density:** >1

**pH Factor:** <1

**Solubility:** SOLUBLE IN WATER

**Evaporation Rate:** <1

Corrosive

### 10. Stability And Reactivity

**Stability:** STABLE

**Hazardous Polymerization:** WILL NOT OCCUR

#### Conditions To Avoid (Stability)

Avoid contact with strong acids and alkalis and contact with metal salts of sulfides and sulfites.

#### Hazardous Decomposition Products

Some reactions may produce hydrogen gas

### 11. Toxicological Information

No Data Available...

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### 12. Ecological Information

No Data Available...

### 13. Disposal Considerations

Refer to applicable local, state and federal regulations as well as industry standards. Incineration recommended.

### 14. Transport Information

#### Proper Shipping Name

Corrosive Liquid, N.O.S. (1-hydroxyethylidene 1,1-diphosphonic acid and phosphoric acid)

#### Hazard Class

8 PGIII (<=4L Consumer Commodity ORM-D)

#### DOT Identification Number

UN1760

#### DOT (Pictograms)



### 15. Regulatory Information

No Data Available...

#### NFPA



#### HMIS

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	C

### 16. Other Information

#### Precautionary Label

Corrosive

#### Revision/Preparer Information

MSDS Preparer: JHW3

This MSDS Supercedes A Previous MSDS Dated: 12/18/2002

#### Disclaimer

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