



MATERIAL SAFETY DATA SHEET

Applied Biochemists HCL Advantage

1. Product And Company Identification			
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	Manufacturer 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		
Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300		
Issue Date: 12/19/2002 Product Name: Applied Biochemists HCL Advantage CAS Number: Not Established Chemical Family: Acid Chemical Formula: Proprietary Mixture MSDS Number: 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			
Primary Routes(s) Of Entry Skin Contact			
Eye Hazards Corrosive to eyes. Causes irreversible eye damage.			
Skin Hazards Causes skin irritation.			
Ingestion Hazards If ingested, get immediate medical attention			
Inhalation Hazards Causes respiratory tract irritation.			
Signs And Symptoms Irritation of Eyes and Respiratory Passages			

MATERIAL SAFETY DATA SHEET

Applied Biochemists HCL Advantage

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.

MATERIAL SAFETY DATA SHEET

Applied Biochemists HCL Advantage

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 ³	1mg/m ³

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...

MATERIAL SAFETY DATA SHEET

Applied Biochemists HCL Advantage

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

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