



MATERIAL SAFETY DATA SHEET

Robarb Spray & Rinse

1. Product And Company Identification			
Supplier Robarb 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: 02/13/2006 Product Name: Robarb Spray & Rinse Chemical Name: Multi Purpose Cleaner CAS Number: Not Established Chemical Formula: Proprietary Mixture MSDS Number: 12			
2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONICACID	2809-21-4		
2-BUTOXYETHANOL	111-76-2		
CITRICACID	77-92-9		
Poly(oxy-1,2-ethanediyl),alpha-(nonlyphenyl-omega-hydroxy)-	9016-45-9		
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 May cause eye burns and tissue damage.			
Skin Hazards May cause skin damage.			
Ingestion Hazards If ingested, get immediate medical attention			
Inhalation Hazards Causes respiratory tract irritation.			
Signs And Symptoms 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

Give Milk, Egg Whites or Baking Soda Immediately. Drink large amounts of water. 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: 150 °F

Extinguishing Media

In case of fire, use water spray (fog) foam, dry chemical, or CO2.

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). Flush spill area 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.

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

2-BUTOXYETHANOL

ACGIH TLV-TWA 20 ppm (Skin)

OSHA PEL-TWA 50 ppm (Skin)

9. Physical And Chemical Properties

Appearance

Clear liquid

Odor

Detergent

Chemical Type: Mixture

Physical State: Liquid

Melting Point: n/a °F

Boiling Point: 215 °F

Specific Gravity: 1.138

Molecular Weight: NOT DETERMINED

Percent Volitales: NOT DETERMINED

Vapor Pressure: 17

Vapor Density: 0.6

pH Factor: 1-3

Solubility: SOLUBLE IN WATER

Evaporation Rate: 16.0

Corrosive

10. Stability And Reactivity

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid (Stability)

Avoid contact with strong acids and alkalis

Incompatible Materials

Acids and Alkalis

Hazardous Decomposition Products

Oxides of carbon, nitrogen, aldehydes, ketones

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11. Toxicological Information

Acute Studies

Concentrated product corrosive to skin and mucous membranes

12. Ecological Information

No Data Available...

13. Disposal Considerations

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

14. Transport Information

Proper Shipping Name

Corrosive Liquid, Acidic, Organic, N.O.S. (1-Hydroxyethylidene-1,1-Diphosphonic Acid)

Hazard Class

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

DOT Identification Number

UN3265

Additional Shipping Paper Description

North American Emergency Response Guide No.153

Not regulated by DOT for ground shipments [see exception for material corrosive to steel/aluminum 49CFR 173.154(d)].

15. Regulatory Information

Ingredient(s) - U.S. Regulatory Information

2-BUTOXYETHANOL

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

SARA - Acute Health Hazard

SARA - Chronic Health Hazard

SARA - Fire Hazard

Ingredient(s) - State Regulations

2-BUTOXYETHANOL


New Jersey - Workplace Hazard

New Jersey - Environmental Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

NFPA	HMIS								
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HEALTH	2								
FLAMMABILITY	1								
REACTIVITY	1								
PERSONAL PROTECTION	D								

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

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Disclaimer

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Robarb

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