



Robarb Stain Tamer

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 Stain Tamer Chemical Name: Organic Acid Cleaner CAS Number: Not Established Chemical Family: Stain Remover and Preventer Chemical Formula: Proprietary MSDS Number: 82			
2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
CITRICACID	77-92-9		
SODIUMCHLORIDE	7647-14-5		
SODIUMHEXAMETAPHOSPHATE	10124-56-8		
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 Causes eye irritation. Possible eye burns, conjunctivitis, ulceration and permanent cloudiness.			
Skin Hazards May causes skin irritation.			
Ingestion Hazards May be harmful if swallowed. Can cause acute gastrointestinal irritation with abdominal pain.			
Inhalation Hazards May cause respiratory tract irritation, sore throat, coughing, and shortness of breath.			
Signs And Symptoms Concentrated product may irritation to the eyes and respiratory tract. Ingestion may cause gastrointestinal irritation.			

MATERIAL SAFETY DATA SHEET**Robarb Stain Tamer****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. Consult Physician.

Skin

Remove contaminated clothing and shoes. Wash the affected area under tepid running water using a mild soap.

Ingestion

DO NOT INDUCE VOMITING. Drink large amounts of water. Contact a physician or poison control.

Inhalation

If inhaled, remove to fresh air.

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

Sweep up and remove immediately. Avoid release to the environment.

7. Handling And Storage**Handling And Storage Precautions**

Keep out of reach of children. Keep containers tightly closed. Store material in a cool and dry place.

Handling Precautions

Avoid contact with eyes.

Storage Precautions

Store in a cool dry place.

Work/Hygienic Practices

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

Protective Clothing (Pictograms)

MATERIAL SAFETY DATA SHEET**Robarb Stain Tamer****8. Exposure Controls/Personal Protection****Engineering Controls**

Use with adequate general and local exhaust ventilation.

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

The level of respiratory protection needed should be based on the required protection factor after evaluating chemical exposures using appropriate industrial hygiene monitoring and/or OSHA guidance.

9. Physical And Chemical Properties**Appearance**

White Powder

Odor

Mild

Chemical Type: Mixture

Physical State: Solid

Melting Point: 153 °C

Specific Gravity: 1.4-1.6

Packing Density: Bulk density 650-950 kg/m³

Vapor Pressure: NOT VOLATILE

Vapor Density: N/A

pH Factor: 1.8 At a Concentration Of 5% solution in water

Solubility: 576 g/kg

Evaporation Rate: NOT ESTABLISHED

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products

None known

11. Toxicological Information**Ingredient(s) - Toxicological Data**

CITRIC ACID

LD50 p.o. rat 11,700 mg/kg

LD50 l.p. rat 885 mg/kg

LD50 p.o. mouse 5,040 mg/kg

LD50 l.p. mouse 961 mg/kg

12. Ecological Information

No Data Available...

13. Disposal Considerations

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

14. Transport Information

No Data Available...

MATERIAL SAFETY DATA SHEET

Robarb Stain Tamer

14. Transport Information - Continued

Proper Shipping Name
NOT REGULATED

Hazard Class
NOT REGULATED

Secondary Hazard Class
NOT REGULATED

DOT Identification Number
NONE

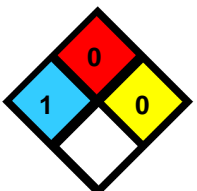
DOT Shipping Label
NOT ASSIGNED

Freight Class
NOT REGULATED

Packaging Requirements
NOT ASSIGNED

15. Regulatory Information

No Data Available...

NFPA	HMIS								
	<table border="1"> <tr> <td style="background-color: #00b0f0;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ff0000;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00;">REACTIVITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">A</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	A
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FLAMMABILITY	0								
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16. Other Information

Revision/Preparer Information
 MSDS Preparer: JHW3
 This MSDS Supersedes A Previous MSDS Dated: 09/14/2000

Disclaimer

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Robarb