



MATERIAL SAFETY DATA SHEET

Robarb pH Down (Pool Specialties)

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: 02/28/2006 Product Name: Robarb pH Down (Pool Specialties) Chemical Name: Sodium bisulfate CAS Number: Not Established Chemical Family: pH reducer Chemical Formula: Proprietary Mixture MSDS Number: 23			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
SODIUMBISULFATE		7681-38-1	
SODIUMSULFATE		7757-82-6	
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).			
Hazards Identification (Pictograms)			
3. Hazards Identification			
Eye Hazards Mild to Severe Irritant. May cause burns if not flushed with water.			
Skin Hazards Moderate irritant. May cause burns if not flushed with water.			
Ingestion Hazards Irritant. May irritate or burn mouth, esophagus, or stomach.			
Inhalation Hazards Irritant. May irritate or burn nose, throat, and lungs. No exposure limits established.			

MATERIAL SAFETY DATA SHEET**Robarb pH Down (Pool Specialties)****3. Hazards Identification - Continued****Chronic/Carcinogenicity Effects**

Not listed as a carcinogen by NTP, IARC, or OSHA.

Signs And Symptoms

Irritation of Eyes, Skin and Respiratory Passages

First Aid (Pictograms)**4. First Aid Measures****Eye**

Immediately flush with water for 15 minutes, lifting eyelids to thoroughly flush. Get prompt medical attention.

Skin

Immediately flush with water for 15 minutes. If burn occurs, obtain medical help.

Ingestion

Drink large quantities of milk or water. Follow with milk of magnesia, beaten eggs or vegetable oil. **Do not induce vomiting.** Contact physician immediately.

Inhalation

Move to fresh air location. If irritation or discomfort persists, seek medical attention.

Fire Fighting (Pictograms)**5. Fire Fighting Measures**

Flash Point: N/A °F

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Fire And Explosion Hazards

At temperatures over 806F, product will decompose, generating oxides of sulfur.

Product readily dissolves in water to form a weak sulfuric acid solution. No gases or toxic fumes are emitted from this reaction, but precautions for exposure to sulfuric acid should be followed.

Extinguishing Media

Water or dry chemical as appropriate for combustibles in area. Avoid water contact to material if possible.

Fire Fighting Instructions

If water is used to extinguish combustibles and product is dissolved in water forming sulfuric acid, wear acid protective equipment. If elevated temperatures (>806F) are reached, self-contained breathing apparatus should be worn.

6. Accidental Release Measures

Small Spills: Material is granular product and can be swept up from surfaces.

Large Spills: Pick up as much material as possible with shovel or other tool. Neutralize balance of spill with weak alkaline solution and wash down to sewer if federal, state, or local regulations permit.

MATERIAL SAFETY DATA SHEET**Robarb pH Down (Pool Specialties)****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. Keep containers tightly closed.

Handling Precautions

Use only with adequate personal protection.

Storage Precautions

Do not store where exposed to moist conditions or near strong alkalis. Keep containers tightly closed.

Work/Hygienic Practices

Avoid contact with skin, eyes or clothing. Wear all recommended protective equipment when handling. Avoid contact with eyes. Solutions of this material are acidic and strongly irritating. Will attack most metals.

Protective Clothing (Pictograms)**8. Exposure Controls/Personal Protection****Engineering Controls**

Local ventilation to a dust collector is recommended.

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves such as neoprene or rubber. Clothes should completely cover skin to avoid skin contact. Coats, coveralls, or aprons are recommended.

Respiratory Protection

NIOSH or MSA certified dust mask should be worn while handling product to control exposure below nuisance dust limits of 10 mg/m³.

9. Physical And Chemical Properties**Appearance**

Off white bead-like granular dry material.

Odor

Bland odor

Chemical Type: Mixture

Physical State: Solid

Melting Point: 350 °F

Specific Gravity: n/a

Percent Volatiles: Non-Volatile

Packing Density: 83 lb/cu.ft

Solubility: SOLUBLE

MATERIAL SAFETY DATA SHEET**Robarb pH Down (Pool Specialties)****10. Stability And Reactivity**

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions To Avoid (Stability)

Store in a dry area to avoid moisture contact.

Incompatible Materials

Strong alkaline materials such as caustic. Do not mix with liquid chlorine bleach, ammonia cleansers or similar products.

Hazardous Decomposition Products

At Temperatures in excess of 570F Hazardous fumes of Sulfur Dioxide and Sulfur Trioxide are evolved.

11. Toxicological Information**Eye Effects**

Note to Physician:

Natural watering of eyes will dissolve sodium bisulfate, forming a weak sulfuric acid solution which may cause burns.

Flush effected area thoroughly with water. Do not use chemical antidotes or neutralizing solutions.

Skin Effects

Note to Physician:

Mild burns may occur if not thoroughly flushed previously.

Acute Oral Effects

Note to Physician:

Body water content will react with sodium bisulfate to form a weak sulfuric acid solution, which may burn tissues in mouth, esophagus or stomach. Solution should be diluted to reduce burning effect.

Acute Inhalation Effects

Note to Physician:

Mild burning sensations may occur to mucous membranes and upper respiratory tract.

12. Ecological Information**Ecotoxicological Information**

LD50 Rat = 2800 mg/kg

This material is neither corrosive nor destructive to the skin of New Zealand rabbits. Occasionally, a very slight rash may appear.

13. Disposal Considerations

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

14. Transport Information**Proper Shipping Name**

NOT REGULATED

Hazard Class

NOT REGULATED

DOT Identification Number

NONE

15. Regulatory Information

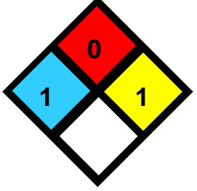
No Data Available...

MATERIAL SAFETY DATA SHEET

Robarb pH Down (Pool Specialties)

15. Regulatory Information - Continued

Ingredient(s) - State Regulations
 SODIUM BISULFATE
 New Jersey - Workplace Hazard
 New Jersey - Special Hazard
 New York City - Hazardous Substance

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;">F</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	F
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	F								

16. Other Information

Revision/Preparer Information
 MSDS Preparer: JHW
 This MSDS Superceeds A Previous MSDS Dated: 07/18/2000

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).

Robarb