



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
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Supplier Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300	Manufacturer Emergency Contacts & Phone Number CHEMTREC - DAY OR NIGHT: (800) 424-9300
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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.

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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.

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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

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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...

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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

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

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Robarb