



MATERIAL SAFETY DATA SHEET

Robarb Bromochem

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: 08/03/2006

Product Name: Robarb Bromochem
Chemical Name: Bromine Tablets BCDMH
CAS Number: Not Established
Chemical Family: Brominating disinfecting tablets, Active Halogen
Chemical Formula: $\text{BrCl}(\text{CH}_3)_2 \text{C}_3\text{N}_2\text{O}_2$
MSDS Number: 50

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
1,3-DICHLORO-5, 5-DIMETHYL-HYDANTOIN	118-52-5	
1,3-DICHLORO-5, ETHYL-5-METHYL HYDANTOIN	89415-87-2	
1-BROMO-3-CHLORO-5, 5-DIMETHYLHYDANTOIN	16079-88-2	
SODIUMCHLORIDE	7647-14-5	

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

Primary Route(s) Of Entry
Skin Contact, Inhalation

Eye Hazards
Causes irreversible eye damage.

Skin Hazards
May cause severe skin irritation.

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3. Hazards Identification - Continued

Ingestion Hazards

Aspiration hazard if swallowed. Can enter lungs and cause damage.

Inhalation Hazards

Causes severe respiratory tract irritation.

Signs And Symptoms

Irritation of Skin, Eyes and Respiratory Passages

Conditions Aggravated By Exposure

None Known

First Aid (Pictograms)



4. First Aid Measures

Eye

Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care.

Skin

Immediately wipe away excess material with a dry cloth while removing contaminated clothing and shoes. Under safety shower, wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get immediate medical attention. Discard or decontaminate clothing and shoes.

Ingestion

If swallowed, immediately give 3-4 glasses of water. DO NOT INDUCE VOMITING. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation

Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: n/a °F

Flammability Class: Not Flammable

Fire And Explosion Hazards

Material is combustible in a fire and produces gases of hydrogen bromide, bromine gas-nitrogen oxides, and hydrogen chloride.

Extinguishing Media

Use CO2 (Carbon Dioxide), dry chemical, or water spray

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

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6. Accidental Release Measures

Clean up spill immediately. Carefully sweep up material and place in a compatible container for reclamation. Use appropriate containers to avoid environmental contamination.

7. Handling And Storage

Handling And Storage Precautions

Keep out of reach of children. Store material in a cool and dry place away from oxidizers. Use only with adequate ventilation. Avoid breathing dust.

Handling Precautions

Avoid breathing dust or vapor. Avoid contact with skin and clothing. Avoid contact with eyes. Avoid creating dust. Long sleeves and pants required to prevent prolonged or repeated skin contact.

Storage Precautions

Do not reuse container. Store in a cool dry place. Store away from Oxidizing agents.

Work/Hygienic Practices

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

Protective Clothing (Pictograms)



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.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

General room ventilation is normally adequate. 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 tablet

Odor

Halogen

Chemical Type: Mixture

Physical State: Solid

Melting Point: DECOMPOSES °F

Boiling Point: n/a °F

Specific Gravity: 1.8-2.0

Molecular Weight: NOT DETERMINED

Percent Volitales: NOT DETERMINED

Vapor Pressure: NOT APPLICABLE

Vapor Density: NOT VOLATILE

Solubility: 0.2% @ 25C

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9. Physical And Chemical Properties - Continued

Odor - Continued

Evaporation Rate: n/a

10. Stability And Reactivity

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Incompatible Materials

Acids/Bases and Oxidizers/Reducing agents Organic chemicals

Hazardous Decomposition Products

Bromine gas, Hydrogen Bromide, Hydrogen Chloride

11. Toxicological Information

Eye Effects

eye irritation (rabbit) : Severe irritant and corrosive

Skin Effects

skin irritation (rabbit - Draize test) : Corrosive to both abraded and unabraded skin

skin corrosivity (rabbit - US DOT test) : Not corrosive

Acute Oral Effects

oral LD50 (rat) : 468-477 mg/kg

Chronic/Carcinogenicity

Direct skin and/or eye contact can result in severe skin and eye irritation that may produce irreversable damage.

Inhalation can cause severe irritation of nose, throat, and lungs

12. Ecological Information

Acute Toxicity - Fish And Invertebrates

LC50 (rainbow trout - 96 hours) : 0.5 mg/L

LC50 (bluegill sunfish - 96 hours) : 1.2 mg/L

LC50 (Daphnia magna - 48 hours) : 0.4 mg/L

LC50 (mysid shrimp - 96 hours) : 0.93 mg/L

LC50 (sheepshead minnow - 96 hours) : 1.4 mg/L (as Br₂)

LC50 (eastern oysters - 96 hours) : 0.84 mg/L (as Br₂)

13. Disposal Considerations

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

14. Transport Information

Proper Shipping Name

OXIDIZING SOLID, N.O.S. (BROMO CHLORO-5, 5-DIMETHYLHYDANTOIN)

Hazard Class

5.1, PGII (<= 1kg Consumer Commodity ORM-D)

DOT Identification Number

UN1479

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DOT (Pictograms)



15. Regulatory Information

Canadian Regulatory Information

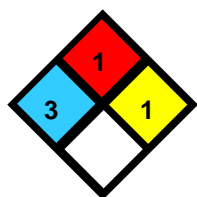
Class C - Oxidizing Material

Class D, Div 2b - Poisonous or Infectious Material: other toxic effects,

WHMIS - Canada (Pictograms)



NFPA



HMIS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	1
PERSONAL PROTECTION	B

16. Other Information

Revision/Preparer Information

MSDS Preparer: JHW

This MSDS Supersedes A Previous MSDS Dated: 07/26/2000

Disclaimer

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Robarb

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