



# MATERIAL SAFETY DATA SHEET

## Robarb Brom Tabs for Pools

1. Product And Company Identification			
<b>Supplier</b> 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		<b>Manufacturer</b> 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	
<b>Supplier Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300		<b>Manufacturer Emergency Contacts &amp; Phone Number</b> CHEMTREC - DAY OR NIGHT: (800) 424-9300	
Issue Date: 02/28/2006 Product Name: Robarb Brom Tabs for Pools CAS Number: Not Established Chemical Family: Halogenated Hydantoin MSDS Number: 345			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
BROMOCHLORO-5,5-DIMETHYLHYDANTOIN		32718-18-6	
EMERGENCY OVERVIEW			
White to off-white granular solid with faint halogenous odour Corrosive Causes irreversible eye damage and skin burns Irritating to nose and throat May be fatal if inhaled Harmful if absorbed through skin or swallowed Oxidizer			
Hazards Identification (Pictograms)			
3. Hazards Identification			
<b>Primary Routes(s) Of Entry</b> Skin contact, Inhalation, Ingestion, Eye Contact.			
<b>Eye Hazards</b> Corrosive. May cause permanent eye damage.			
<b>Skin Hazards</b> Exposure to wet skin may cause severe irritation. May cause skin sensitization.			

**MATERIAL SAFETY DATA SHEET****Robarb Brom Tabs for Pools****3. Hazards Identification - Continued****Ingestion Hazards**

May be fatal if swallowed.

**Inhalation Hazards**

Irritant to upper respiratory tract. Shortness of breath, headache and nausea.

**Chronic/Carcinogenicity Effects**

There are no known chronic hazards.

**Conditions Aggravated By Exposure**

Existing dermatitis may be aggravated by exposure.

**4. First Aid Measures****Eye**

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advise.

**Skin**

Take off contaminated clothing. If contact with skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. Call a poison control center or doctor for treatment advise.

**Ingestion**

Call a physician or poison control center immediately for treatment advise. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**Inhalation**

If inhaled: Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

**Note To Physician**

Probable mucosal damage may contraindicate the use of gastric lavage.

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

Flash Point: None °F

Autoignition Point: N/A °F

Flammability Class: Not flammable

**Fire And Explosion Hazards**

Strong oxidizing agent. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. When heated to decomposition, may release poisonous and corrosive fumes.

**Extinguishing Media**

Dry powder, carbon dioxide or water spray.

**Fire Fighting Instructions**

Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

**6. Accidental Release Measures****Personal Precautions:**

**MATERIAL SAFETY DATA SHEET****Robarb Brom Tabs for Pools****6. Accidental Release Measures - Continued**

Evacuate area. Use dust respirator, rubber gloves and chemical safety goggles.

**Methods for Cleaning Up:**

Sweep up, place in a suitable container and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Avoid access to streams, lakes or ponds.

**Handling & Storage (Pictograms)****7. Handling And Storage****Handling Precautions**

Keep containers tightly closed.

**Storage Precautions**

Keep away from all sources of ignition. Recommended storage temperature below 30C. Store in a dry, well-ventilated area away from incompatible materials.

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

Use local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain atmospheric concentration below exposure limit (TLV-TWA: 0.1 mg/m3).

**Eye/Face Protection**

Chemical safety goggles

**Skin Protection**

Body covering clothes and boots  
PVC gloves

**Respiratory Protection**

Approved respirator

**Other/General Protection**

Do not eat, smoke or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Safety shower and eye bath should be provided.

**9. Physical And Chemical Properties****Appearance**

White to off-white tablet

**Odor**

Faint halogen odor.

Chemical Type: Mixture

Physical State: Solid

**MATERIAL SAFETY DATA SHEET****Robarb Brom Tabs for Pools****9. Physical And Chemical Properties - Continued****Odor - Continued**

Melting Point: N/A °F

Boiling Point: N/A °F

Specific Gravity: 1.8-2.0

Molecular Weight: 241.5

Vapor Pressure:  $9.35 \times 10^{-3}$  Pa (25C)

Vapor Density: N/A

Solubility: 0.22g/100ml in water

Evaporation Rate: N/A

**10. Stability And Reactivity**

Stability: Stable under normal conditions

Hazardous Polymerization: Will not occur

**Conditions To Avoid (Stability)**

Exposure to moisture

Heating above decomposition temperature (160C)

**Incompatible Materials**

Oxidizing agents, bases, combustible organic materials

**Hazardous Decomposition Products**CO, HBr, Cl<sub>2</sub>, NO<sub>x</sub>, HCl, CO<sub>2</sub>**Conditions To Avoid (Polymerization)**

Will not occur under normal conditions.

**11. Toxicological Information****Skin Effects**

Dermal irritation (rabbit): Corrosive

Dermal sensitization (guinea pig): Sensitizer

**Acute Oral Effects**

Oral LD50: 929 mg/kg (rat).

**Acute Inhalation Effects**

Rat Inhalation LC50: 1.1 mg/l/4 hour (powder)

**Chronic/Carcinogenicity**

Not known to be a carcinogen.

Not classified by IARC.

Not included in NTP 10th Report on Carcinogens.

**Mutagenicity (Genetic Effects)**

Mutagenic by the Ames Test

Mutagenic in the mouse lymphoma L5178Y test system

Non genotoxic in micronucleous test in mice

Non genotoxic in in-vivo liver unscheduled DNA synthesis (USD) assay

**12. Ecological Information****Acute Toxicity - Fish And Invertebrates**

96 Hour-LC50, Fish:	1.2 mg/l (Eastern oyster, Acute flow through)
	1.9 mg/l (Mysid shrimp, Acute flow through)
	0.4 mg/l (Rainbow trout, Static)
	0.46 mg/l (Bluegill sunfish, Static)
	1.6 mg/l (Sheepshead minnow, Acute flow through)

**MATERIAL SAFETY DATA SHEET****Robarb Brom Tabs for Pools****12. Ecological Information - Continued****Acute Toxicity - Fish And Invertebrates - Continued**

48 Hour-LC50, Daphnia magna 0.75 mg/l (Static)

**Acute And Dietary Toxicity - Birds**

Oral LD50, Bobwhite quail 1839 mg/kg

Dietary LC50, Mallard duck &gt;5620 ppm

Dietary LC50, Bobwhite quail &gt;5620 ppm

**13. Disposal Considerations****Disposal Method:**

Dispose of in approved landfill sites or an approved incinerator. Crush and bury empty containers. Avoid access to streams, lakes, or ponds. Observe all federal, state, and local environmental regulations when disposing of this material.

**Empty Container:**

Crush and bury empty containers.

**14. Transport Information****Proper Shipping Name**

Oxidizing Solid, n.o.s. (Bromo, Chloro-5,5-DimethylHydantoin)

**Hazard Class**

5.1, PGII (&lt;=1 kg Consumer Commodity ORM-D)

**DOT Identification Number**

UN1479

**DOT (Pictograms)****15. Regulatory Information****U.S. Regulatory Information**

This product is registered under FIFRA.

TSCA: EPA Number P-94-34

Subject to reporting under SNUR (Significant New Use Rule) -any use, 60 FR 11037

**SARA Hazard Classes**

Acute Health Hazard

Reactivity Hazard

**SARA Section 313 Notification**

This product does not contain a chemical listed at or above de minimis concentrations.

**State Regulations**

This product or its components are not listed on any California Proposition 65 list of carcinogens or reproductive toxicants.

**Other International Regulations**

EEC No. 251-171-5

Japanese META: ENCS No.:5-6368

China Inventory: Listed

Philippines: Listed in PICCS

Not listed under CERCLA.

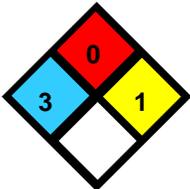
If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have

# MATERIAL SAFETY DATA SHEET

## Robarb Brom Tabs for Pools

**15. Regulatory Information - Continued**

**Other International Regulations - Continued**  
 the following EPA hazardous waste number: D001.

<b>NFPA</b>	<b>HMIS</b>								
	<table border="1"> <tr> <td style="background-color: #00B0F0;">HEALTH</td> <td style="text-align: center;">3</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;">B</td> </tr> </table>	HEALTH	3	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	B
HEALTH	3								
FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	B								

**16. Other Information**

**Revision/Preparer Information**  
 MSDS Preparer: JHW  
 This MSDS Superceeds A Previous MSDS Dated: 03/07/2002

**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**

Printed Using MSDS Generator™ 2000