



# MATERIAL SAFETY DATA SHEET

## Leisure Time Brom Tabs

<b>1. Product And Company Identification</b>			
<b>Supplier</b> Leisure Time 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: 08/05/2004  Product Name: Leisure Time Brom Tabs Chemical Name: Bromine Tablets BCDMH 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			
<b>2. Composition/Information On Ingredients</b>			
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).			
<b>Hazards Identification (Pictograms)</b>			
<b>3. Hazards Identification</b>			
<b>Primary Routes(s) Of Entry</b> Skin Contact, Inhalation  <b>Eye Hazards</b> Causes irreversible eye damage.  <b>Skin Hazards</b> May cause severe skin irritation.  <b>Ingestion Hazards</b> Aspiration hazard if swallowed. Can enter lungs and cause damage.			

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<p><b>3. Hazards Identification - Continued</b></p> <p><b>Inhalation Hazards</b> Causes severe respiratory tract irritation.</p> <p><b>Signs And Symptoms</b> Irritation of Skin, Eyes and Respiratory Passages</p> <p><b>Conditions Aggravated By Exposure</b> None Known</p>
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<p><b>First Aid (Pictograms)</b></p> 
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<p><b>4. First Aid Measures</b></p> <p><b>Eye</b> 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.</p> <p><b>Skin</b> 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.</p> <p><b>Ingestion</b> 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.</p> <p><b>Inhalation</b> 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.</p>
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<p><b>Fire Fighting (Pictograms)</b></p> 
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<p><b>5. Fire Fighting Measures</b></p> <p><b>Flash Point:</b> n/a °F <b>Flammability Class:</b> Not Flammable</p> <p><b>Fire And Explosion Hazards</b> Material is combustible in a fire and produces gases of hydrogen bromide, bromine gas-nitrogen oxides, and hydrogen chloride.</p> <p><b>Extinguishing Media</b> Use CO2 (Carbon Dioxide), dry chemical, or water spray</p> <p><b>Fire Fighting Instructions</b> Firefighters should wear self-contained breathing apparatus and full protective gear.</p>
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<p><b>6. Accidental Release Measures</b></p> <p>Clean up spill immediately. Carefully sweep up material and place in a compatible container for reclamation. Use appropriate containers to avoid environmental contamination.</p>
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## Leisure Time Brom Tabs

### 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

**Evaporation Rate:** n/a

### 10. Stability And Reactivity

**Stability:** STABLE

**Hazardous Polymerization:** WILL NOT OCCUR

## Leisure Time Brom Tabs

### 10. Stability And Reactivity - Continued

#### 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

#### Acute Inhalation Effects

LC50 mg/kg Rat 0.53 mg/L

#### 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 Br<sub>2</sub>)

LC50 (eastern oysters - 96 hours) : 0.84 mg/L (as Br<sub>2</sub>)

### 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

#### DOT (Pictograms)



### 15. Regulatory Information

#### Canadian Regulatory Information

Class C - Oxidizing Material

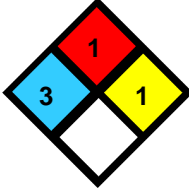
Class D, Div 2b - Poisonous or Infectious Material: other toxic effects,

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**WHMIS - Canada (Pictograms)**



<b>NFPA</b>	<b>HMIS</b>								
	<table border="1"><tr><td>HEALTH</td><td>3</td></tr><tr><td>FLAMMABILITY</td><td>1</td></tr><tr><td>REACTIVITY</td><td>1</td></tr><tr><td>PERSONAL PROTECTION</td><td>B</td></tr></table>	HEALTH	3	FLAMMABILITY	1	REACTIVITY	1	PERSONAL PROTECTION	B
HEALTH	3								
FLAMMABILITY	1								
REACTIVITY	1								
PERSONAL PROTECTION	B								

**16. Other Information**

Revision/Preparer Information  
MSDS Preparer: JHW  
This MSDS Superceeds A Previous MSDS Dated: 07/26/2000

**Disclaimer**

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**Leisure Time**