



# MATERIAL SAFETY DATA SHEET

## Robarb 3 inch Tablets

1. Product And Company Identification			
<u>Supplier</u> <b>Robarb</b> <b>1400 Bluegrass Lakes Parkway</b> <b>Alpharetta, GA 30004 United States</b> Telephone Number: (770)521-5999 FAX Number: (770)521-5959 Web Site: www.poolspacare.com		<u>Manufacturer</u> <b>Advantis Technologies, Inc.</b> <b>1400 Bluegrass Lakes Parkway</b> <b>Alpharetta, GA 30004 United States</b> Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
<u>Supplier Emergency Contacts &amp; Phone Number</u> <b>CHEMTREC - DAY OR NIGHT: (800) 424-9300</b>		<u>Manufacturer Emergency Contacts &amp; Phone Number</u> <b>CHEMTREC - DAY OR NIGHT: (800) 424-9300</b>	
Issue Date: 04/20/2006 Product Name: Robarb 3 inch Tablets Chemical Name: Trichloro-s-Triazine-Trione CAS Number: Not Established Chemical Family: Chlorinated Isocyanurates Chemical Formula: C3N3O3Cl3 MSDS Number: 52			
2. Composition/Information On Ingredients			
Ingredient Name		CAS Number	Percent Of Total Weight
TRICHLOROISOCYANURICACID		87-90-1	
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).			
EMERGENCY OVERVIEW			
White granular solid or tablet-form product Oxidizer Corrosive to eyes, skin and mucous membranes. Harmful by inhalation and if swallowed.			
3. Hazards Identification			
<u>Primary Routes(s) Of Entry</u> Skin Contact, Inhalation			
<u>Eye Hazards</u> Irritant, severe eye.			
<u>Skin Hazards</u> Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation.			
<u>Ingestion Hazards</u> Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes			

**MATERIAL SAFETY DATA SHEET****Robarb 3 inch Tablets****3. Hazards Identification - Continued****Ingestion Hazards - Continued**

severe damage to the gastrointestinal tract with the potential to cause perforation.

**Inhalation Hazards**

Causes respiratory tract irritation.

**Signs And Symptoms**

Irritation of Eyes and Respiratory Passages

**Conditions Aggravated By Exposure**

Asthma, Respiratory and Cardiovascular Disease

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

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.

**Skin**

In case of contact, immediately flush skin with plenty of water. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

**Ingestion**

Drink large amounts of water. Avoid Alcohol. Do not induce vomiting. Contact a physician or poison control.

**Inhalation**

If inhaled, remove to fresh air.

**Note To Physician**

Corrosive

In case of ingestion DO NOT induce vomiting. No specific antidote. Treat symptomatically and supportively.

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

Flash Point: n/a °F

Flammability Class: NOT FLAMMABLE

**Fire And Explosion Hazards**

SMALL QUANTITIES OF WATER WILL REACT WITH THIS PRODUCT TO FORM HAZARDOUS AMOUNTS OF NITROGEN TRICHLORIDE(VIOLENT EXPLOSIVE)

**Extinguishing Media**

In case of fire, soak (flood) with water. CAUTION DO NOT USE DRY CHEMICAL CONTAINING AMMONIA COMPOUNDS

**Fire Fighting Instructions**

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

**MATERIAL SAFETY DATA SHEET****Robarb 3 inch Tablets****5. Fire Fighting Measures - Continued****Fire Fighting Instructions - Continued****6. Accidental Release Measures**

Clean up spill immediately. Complete cleanup on dry basis if possible. Use appropriate personal protective equipment (PPE). Use appropriate containers to avoid environmental contamination. Spills greater than 100 pounds constitute a reportable quantity by the US EPA

**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. Do not reuse container

**Storage Precautions**

Keep out of reach of children. Store in a cool dry place. Do not Reuse container. Keep away from other types of chlorinating compounds and organic material. **KEEP AWAY FROM AMMONIA AND AMMONIA COMPOUNDS.** Do not store above 60C/140F.

**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. Wear long sleeves.

**Respiratory Protection**

Respiratory protection not normally required. A respiratory protection program that meets OSHA 1910.134 must be followed whenever workplace conditions warrant a respirator's use.

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

White tablet or stick

**Odor**

Chlorine

Chemical Type: Mixture

**MATERIAL SAFETY DATA SHEET****Robarb 3 inch Tablets****9. Physical And Chemical Properties - Continued****Odor - Continued**

Physical State: Solid  
 Melting Point: Not applicable °F  
 Boiling Point: Not applicable °F  
 Specific Gravity: >1  
 Molecular Weight: NOT DETERMINED  
 Vapor Pressure: Not applicable  
 Vapor Density: Not applicable  
 pH Factor: 2.7-2.9 At a Concentration Of 1% solution  
 Evaporation Rate: Not Applicable

**10. Stability And Reactivity**

Stability: STABLE  
 Hazardous Polymerization: WILL NOT OCCUR

**Conditions To Avoid (Stability)**

THERMAL DECOMPOSITION MAY PRODUCE CHLORINE AND OTHER TOXIC GASES

**Incompatible Materials**

Reducing agents and Oxidizers, Nitrogen containing compounds, Calcium hypochlorite, Alkalies, Acids, Bases

**Hazardous Decomposition Products**

Chlorine gas

**Conditions To Avoid (Polymerization)**

Water on product while in container. Humidity

**11. Toxicological Information****Eye Effects**

Corrosive

**Skin Effects**

Corrosive

**Acute Oral Effects**

Rat Oral LD50: 490 mg/kg

**Acute Inhalation Effects**

Rat inhalation: Approx. 0.68 mg/l/4 hour - (nose only)

**Chronic/Carcinogenicity**

Not known to be a carcinogen.  
 Not classified by IARC, OSHA, EPA.  
 Not included in NTP 10th Report on Carcinogens.

**Reproductive Effects**

There are no known or reported effects on reproductive function or fetal development. Toxicological investigation indicates it does not effect reproductive function of fetal development.

**Mutagenicity (Genetic Effects)**

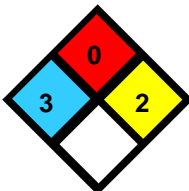
Not mutagenic in five Salmonella strains and one E.coli strain with or without mammalian microsomal activation.

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

96 hour-LC50, Fish: 0.32 mg/l (Rainbow trout)  
 0.30 mg/l (bluegill sunfish)  
 96 hour-LC50, Daphnia magna: 0.21 mg/l

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<b>12. Ecological Information - Continued</b>									
<b>Acute And Dietary Toxicity - Birds</b>									
Oral LD50, Mallard duck:	1600 mg/kg								
Dietary LC50, Mallard duck:	>10,000 ppm								
Dietary LC50, Bobwhite quail:	7422 ppm								
<b>13. Disposal Considerations</b>									
Refer to applicable local, state and federal regulations as well as industry standards.									
<b>14. Transport Information</b>									
<b>Proper Shipping Name</b>									
TRICHLOROISOCYANURIC ACID DRY									
<b>Hazard Class</b>									
5.1,PG II (<=1kg Consumer Commodity ORM-D)									
<b>DOT Identification Number</b>									
UN2468									
<b>15. Regulatory Information</b>									
<b>Canadian Regulatory Information</b>									
Class C - Oxidizing Material									
Class D, Div 2b - Poisonous or Infectious Material: other toxic effects,									
<p><b>NFPA</b></p> 	<p><b>HMIS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">REACTIVITY</td> <td style="text-align: center;">2</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">B</td> </tr> </table>	HEALTH	3	FLAMMABILITY	0	REACTIVITY	2	PERSONAL PROTECTION	B
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FLAMMABILITY	0								
REACTIVITY	2								
PERSONAL PROTECTION	B								
<b>16. Other Information</b>									
<b>Revision/Preparer Information</b>									
MSDS Preparer: JHW									
This MSDS Superceeds A Previous MSDS Dated: 07/26/2000									
<b>Disclaimer</b>									
<p>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).</p> <p>Robarb</p>									

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