# Robarb

# MATERIAL SAFETY DATA SHEET

# **Robarb Sticks**

1.	Produc	t 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

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

<u>Manufacturer</u>

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

Manufacturer Emergency Contacts & Phone Number

CHEMTREC - DAY OR NIGHT: (800) 424-9300

Issue Date: 04/20/2006

Product Name: Robarb Sticks

Chemical Name: Trichloro-s-Triazine-Trione

CAS Number: Not Established

Chemical Family: Chlorinated Isocyanurates

Chemical Formula: C3N3O3Cl3

MSDS Number: 52

2.	Com	position/Information	On	Ingredients

Ingredient	CAS	Percent Of
Name	Number	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

#### Primary Routes(s) Of Entry

Skin Contact, Inhalation

# Eye Hazards

Irritant, severe eye.

#### **Skin Hazards**

Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation.

# **Ingestion Hazards**

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

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#### 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, Respiatory and Cardiovascular Disease

#### First Aid (Pictograms)



#### 4. First Aid Measures

#### <u>Eye</u>

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

Incase 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.

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#### 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 quantitiy 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 presended 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

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# 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. Toxilogical 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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#### 12. Ecological Information - Continued

#### **Acute And Dietary Toxicity - Birds**

Oral LD50, Mallard duck: 1600 mg/kg
Dietary LC50, Mallard duck: >10,000 ppm
Dietary LC50, Bobwhite quail: 7422 ppm

#### 13. Disposal Considerations

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

#### 14. Transport Information

# **Proper Shipping Name**

TRICHLOROISOCYANURIC ACID DRY

#### **Hazard Class**

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

#### **DOT Identification Number**

UN2468

#### 15. Regulatory Information

#### Canadian Regulatory Information

Class C - Oxidizing Material

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

# NFPA 0 3

# <u>HMIS</u>



#### 16. Other Information

#### Revision/Preparer Information

MSDS Preparer: JHW

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

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