

# MATERIAL SAFETY DATA SHEET

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# Leisure Time Spa 56 Chlorinating Granules

1. Product And Company Identification				
<u>Supplier</u> Leisure Time 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States	<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	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 Emergency Contacts &amp; Phone Number</u> CHEMTREC - DAY OR NIGHT: (800) 424-9300			
Issue Date: 08/05/2004 Product Name: Leisure Time Spa 56 Chlorinating Granules Chemical Name: Sodium dichloroisocyanurate, dihydrate CAS Number: 51580-86-0 Chemical Family: Chloroisocyanurate Chemical Formula: NaCl2(NCO)3x2H2O MSDS Number: 46 Synonyms Sodium Dichlory Sodium dichloroisocyanurate, dihydrate, Sodium dichloro e triozinetrione dihydrate				
Sodium Dichlor; Sodium dichloroisocyanurate, dihydrate; Sodium dichloro-s-triazinetrione dihydrate 2. Composition/Information On Ingredients				
Ingredient Name		CAS Number	Percent Of Total Weight	
SODIUMCHLORIDE 7647-14-5				
SODIUM DICHLOROISOCYANURATE, DIHYDRATE		51580-86-0		
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				
Harmful if swallowed.				
3. Hazards Identification				
Eye Hazards Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.				
Skin Hazards Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged skin exposure may cause permanent damage.				
Ingestion Hazards Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by pausoa, vomiting, diarrhoa, abdominal pain, blooding, and/or tissue ulcoration. Ingestion causos				

characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

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## 3. Hazards Identification - Continued

#### **Inhalation Hazards**

Irritating to the nose, mouth, throat, and lungs. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage from the corrosive action of the lung.

#### 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

Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.

#### <u>Skin</u>

Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use.

#### Ingestion

If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately. Never give an unconscious person anything to drink.

#### **Inhalation**

In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

#### Note To Physician

Corrosive. No specific antidote. Treat symptomatically and supportively. In case of ingestion do not induce vomiting.

## Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

Flash Point: N/A °F Autoignition Point: N/A °F

### Fire And Explosion Hazards

When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine and carbon monoxide.

### Extinguishing Media

Water. Do not use dry chemical extinguisher containing ammonia compounds.

#### Fire Fighting Instructions

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode. Cool containers with water spray. On small fires, use water spray or fog. On large fires, use deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.

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## 6. Accidental Release Measures

**For small spills in a well-ventilated area**, wear a NIOSH approved half-face or full face tight fitting respirator or a losse fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls; chemical resistant gloves; chemical resistant footwear; and chemical resistant headgear for overhead exposure.

For clean up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering the entire body to prevent personal contact with material. CAUTION - Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

After Spill / leakage: Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur.

**On Soil:** Do not contaminate spill material with any organic materials, ammonia, ammonium salts, or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.

**On Water:** This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately.

In Air: Vapors may be supressed by the use of water fog.

## 7. Handling And Storage

### Handling And Storage Precautions

Keep out of reach of children. Store material in a cool and dry place.

#### Handling Precautions

Do not take internally. Avoid contact with skin, eyes, clothing. Upon contact with skin, eyes, wash off with water.

#### Storage Precautions

Store in a cool, dry, well-ventilated area away from incompatible materials. Do not store at temperatures above 60C/140F. Product has an indefinite shelf-life limitation.

### <u>Work/Hygienic Practices</u>

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



## 8. Exposure Controls/Personal Protection

#### **Engineering Controls**

Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs. Otherwise, ensure good general ventilation.

#### Eye/Face Protection

Use chemical safety glasses to avoid eye contact. Where industrial use occurs, chemical goggles maybe required.

### Skin Protection

Neoprene gloves. Impervious body covering clothes, boots, and neoprene apron.

#### **Respiratory Protection**

When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter. A respiratory protection program meeting OSHA 1910.134 and ANZI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

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8. Exposure Controls/Personal Protection - Continued **Other/General Protection** Safety shower and eye bath should be provided. Do not eat, drink, or smoke until after-work showering and changing clothes. Wear long sleeves. 9. Physical And Chemical Properties **Appearance** White granular Odor Mild chlorine-like Chemical Type: Mixture Physical State: Solid Melting Point: N/A °F Boiling Point: N/A °F Specific Gravity: 0.96 Molecular Weight: NOT DETERMINED Percent Volitales: NOT VOLATILE Vapor Pressure: N/A Vapor Density: N/A pH Factor: 6-6.5 At a Concentration Of a 1% solution in water Solubility: 25g/100ml at 30C Evaporation Rate: N/A Thermal Decomposition: Begins to lose 1 mole water at approximately 50C; second mole water at 95C. Decomposes at 240-250C. 10. Stability And Reactivity Stability: STABLE Hazardous Polymerization: WILL NOT OCCUR Conditions To Avoid (Stability) Do not package in paper or cardboard. Do not heat above 240C (464F). Incompatible Materials Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds. Hazardous Decomposition Products Nitrogen trichloride, chlorine, carbon monoxide. **11. Toxicological Information** Acute Studies Rat Oral LD50 735 mg/kg Rabbit Dermal LD50 >2000 mg/kg Rat Inhalation LC50 >50 mg/m3/1hour Eye Irritation (rabbit) Corrosive Dermal Irritation (rabbit) Corrosive Dermal Sensitization (guinea pig) Not a sensitizer

## Acute Oral Effects

LD50 mg/kg Rat >= 910gr/kg

## Subchronic (Target Organ Effects)

This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract. There are no known or reported effects from repeated exposure. Toxicological investigation indicates it does not produce significant effects from chronic exposure.

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11. Toxicological Information - Continued				
Chronic/Carcinogenicity Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.				
Teratogenicity (Birth Defects) Sodium dichloroisocyanuric acid when given orally to pregnant mice from day 6 to day 15 of gestation, did not induce any significant teratogenic effects.				
Mutagenicity (Genetic Effects) Not mutagenic in five Salmonella strains with or without metabolic activation.				
<u>Conditions Aggravated By Overexposure</u> Asthma, respiratory and cardiovascular disease.				
12. Ecological Information				
Acute Toxicity - Fish And Invertebrates         96 hour - LC50 - Fish       0.22 mg/l (Rainbow Trout)         0.28 mg/l (bluegill sunfish)         48 hour - LC50 - Daphnia magna       0.2 mg/l				
Acute And Dietary Toxicity - BirdsBobwhite quail, acute oral LD50730 mg/kgMallard duck, acute oral LD503300 mg/kgMallard duck, dietary LC50>10,000 ppmBobwhite quail, dietary LC50>10,000 ppm				
13. Disposal Considerations				
Refer to applicable local, state and federal regulations as well as industry standards.				
14. Transport Information				
Proper Shipping Name NOT REGULATED				
Hazard Class NOT REGULATED				
DOT Identification Number NONE				
15. Regulatory Information				
U.S. Regulatory Information Reported in the EPA TSCA Inventory				
SARA Hazard Classes Acute Health Hazard Fire Hazard				
SARA Section 313 Notification This product does not contain a chemical listed at or above de minimis concentrations.				

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16. Other Information          Revision/Preparer Information         MSDS Preparer: JHW         This MSDS Superceeds A Previous MSDS Dated: 07/26/2000         Disclaimer         Although reasonable care has been taken in the preparation of this document, we extend no warranties		HMIS   HEALTH   3   FLAMMABILITY   0   REACTIVITY   1   PERSONAL   PROTECTION
Although reasonable care has been taken in the preparation of this document, we extend no warranties	<u>Revision/Prepa</u> MSDS Preparer	<u>rer Information</u> : JHW
	Disclaimer	
and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitablility 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).	and make no and assume or for the co	o representations as to the accuracy or completeness of the information contained therein, no responsibility regarding the suitablility of this information for the user's intended purposes nsequences of its use. Each individual should make a determination as to the suitability of
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