1. Product And Company Identification

**Supplier**
GLB
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**
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

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

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

**Issue Date:** 04/19/2004

**Product Name:** Rendezvous Chlorinating Concentrate Granular

**Chemical Name:** Sodium dichloroisocyanurate, dihydrate

**CAS Number:** 51580-86-0

**Chemical Family:** Chloroisocyanurate

**Chemical Formula:** NaCl2(NCO)3x2H2O

**MSDS Number:** 46

**Synonyms**
Sodium Dichlor; Sodium dichloroisocyanurate, dihydrate; Sodium dichloro-s-triazinetrione dihydrate

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM CHLORIDE</td>
<td>7647-14-5</td>
<td></td>
</tr>
<tr>
<td>SODIUM DICHLOROISOCYANURATE, DIHYDRATE</td>
<td>51580-86-0</td>
<td></td>
</tr>
</tbody>
</table>

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).

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

**EMERGENCY OVERVIEW**
Harmful if swallowed.
Rendezvous Chlorinating Concentrate Granular

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.

---

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.

**Skin**
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.

---

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.
### 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 loose 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 suppressed 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 60°C/140°F. Product has an indefinite shelf-life limitation.

#### Work/Hygienic Practices
- Use safe chemical handling procedures suitable for the hazards presented by this material.

### Protective Clothing (Pictograms)

![Pictograms](image_url)

### 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.
### 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 30°C
**Evaporation Rate:** N/A
- Thermal Decomposition: Begins to lose 1 mole water at approximately 50°C; second mole water at 95°C. Decomposes at 240-250°C.

### 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 240°C (464°F).

**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/m³/1 hour
- Eye Irritation (rabbit): Corrosive
- Dermal Irritation (rabbit): Corrosive
- Dermal Sensitization (guinea pig): Not a sensitizer

**Acute Oral Effects**
- LD50 mg/kg Rat: ≥ 910 gr/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.
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.

**Conditions Aggravated By Overexposure**
Asthma, respiratory and cardiovascular disease.

12. Ecological Information

**Acute Toxicity - Fish And Invertebrates**
- 96 hour - LC50 - Fish 0.22 mg/l (Rainbow Trout)
- 48 hour - LC50 - Daphnia magna 0.2 mg/l

**Acute And Dietary Toxicity - Birds**
- Bobwhite quail, acute oral LD50 730 mg/kg
- Mallard duck, acute oral LD50 3300 mg/kg
- Mallard duck, dietary LC50 >10,000 ppm
- Bobwhite 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.
Rendezvous Chlorinating Concentrate Granular

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 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).

GLB

Printed Using MSDS Generator™ 2000