1. Product and Company Identification

Product Name: Spa Chlorine Concentrate Granular
CAS #: Mixture
Product use: Controls bacteria and algae in spas.
Manufacturer: Natural Chemistry, Inc.
40 Richards Ave.
Norwalk, CT 06854 US
Phone: (800) 753-1233
Emergency Phone: CHEMTREC (800) 424-9300

2. Hazards Identification

Emergency overview: DANGER
OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
EYE AND SKIN IRRITANT.
TOXIC.

Potential short term health effects:

- Routes of exposure: Eye, Skin contact, Inhalation, Ingestion.
- Eyes: May cause chemical burns. May cause blindness.
- Skin: May cause severe irritation or chemical burns.
- Inhalation: May cause respiratory tract irritation or chemical burns.
- Ingestion: Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs: Eyes. Skin. Respiratory system.
Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms: May cause severe irritation or chemical burns.
OSHA Regulatory Status: This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects: See section 12.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichloroisocyanurate dihydrate</td>
<td>51580-86-0</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures:

- **Eye contact**: Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
- **Skin contact**: Brush away excess of dry material. Immediately flush with cool water for 15 minutes. Obtain medical attention if irritation persists.
- **Inhalation**: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
- **Ingestion**: Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician: Symptoms may be delayed.
General advice: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required.

5. Fire Fighting Measures

- **Flammable properties**: Not flammable by WHMIS/OSHA criteria. Containers may explode when heated.
### Extinguishing media

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Treat for surrounding material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Protection of firefighters

<table>
<thead>
<tr>
<th>Specific hazards arising from the chemical</th>
<th>This substance is an oxidizing agent and can supply oxygen to stimulate or accelerate the combustion of organic or other combustible substances.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective equipment for firefighters</td>
<td>Firefighters should wear full protective clothing including self-contained breathing apparatus.</td>
</tr>
</tbody>
</table>

### Hazardous combustion products


### Explosion data

<table>
<thead>
<tr>
<th>Sensitivity to mechanical impact</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity to static discharge</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 6. Accidental Release Measures

#### Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

#### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

#### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

#### Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

### 7. Handling and Storage

#### Handling

Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing. May be harmful if directly inhaled. Avoid breathing dust.

#### Storage

Keep out of reach of children. Store in tightly closed container. Store in a cool, dry, well-ventilated place away from incompatible materials. Keep away from heat, open flames or other sources of ignition.

### 8. Exposure Controls / Personal Protection

#### Exposure limits

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichloroisocyanurate dihydrate</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

#### Engineering controls

Use only under good ventilation conditions or with respiratory protection.

#### Personal protective equipment

- **Eye / face protection**: Chemical splash goggles.
- **Hand protection**: Neoprene gloves. Confirm with a reputable supplier first.
- **Skin and body protection**: As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- **General hygiene considerations**: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Granules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

- **Reactivity**: Decomposes slowly on exposure to water.
- **Possibility of hazardous reactions**: Hazardous polymerization does not occur.
- **Chemical stability**: Stable under recommended storage conditions.
- **Conditions to avoid**: Do not mix with other chemicals. Avoid heat, flames, sparks, and all other sources of ignition.
- **Hazardous decomposition products**: May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Nitrogen trichloride. Chlorine gas. Toxic fumes.

11. Toxicological Information

**Component analysis - LC50**

- **Ingredient(s)**: Sodium dichloroisocyanurate dihydrate
  - **LC50**: > 1637.5 Mg/m3/4H rat

**Component analysis - Oral LD50**

- **Ingredient(s)**: Sodium dichloroisocyanurate dihydrate
  - **LD50**: 620 mg/kg rat

**Effects of acute exposure**

- **Eye**: May cause chemical burns. May cause blindness.
- **Skin**: May cause severe irritation or chemical burns.
- **Inhalation**: May cause respiratory tract irritation or chemical burns.
- **Ingestion**: Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
- **Sensitization**: Non-hazardous by WHMIS/OSHA criteria.
- **Chronic effects**: Non-hazardous by WHMIS/OSHA criteria.
- **Carcinogenicity**: Non-hazardous by WHMIS/OSHA criteria.
- **Mutagenicity**: Non-hazardous by WHMIS/OSHA criteria.
- **Reproductive effects**: Non-hazardous by WHMIS/OSHA criteria.
- **Teratogenicity**: Non-hazardous by WHMIS/OSHA criteria.
- **Name of Toxicologically Synergistic Products**: Not available
12. Ecological Information

Ecotoxicity
Components of this product have been identified as having potential environmental concerns.
0.22 mg/l, Rainbow Trout, 96.00 Hours, LC50

Persistence / degradability Not available
Bioaccumulation / accumulation Not available
Mobility in environmental media Not available
Environmental effects Not available
Aquatic toxicity Not available
Partition coefficient Not available
Chemical fate information Not available
Other adverse effects Not available

13. Disposal Considerations

Disposal instructions Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations.
Waste from residues / unused products Not available
Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT) Not regulated as dangerous goods.
Transportation of Dangerous Goods (TDG - Canada) Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS status Controlled
WHMIS classification Class C - Oxidizing Material, Class D - Division 1B, 2B
WHMIS labeling

Occupational Safety and Health Administration (OSHA) Yes
29 CFR 1910.1200 hazardous chemical

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - Yes

Section 302 extremely hazardous substance No
Section 311 hazardous chemical Yes
Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List
Sodium dichloroisocyanurate dihydrate 51580-86-0 Present

U.S. - Pennsylvania - RTK (Right to Know) List
Sodium dichloroisocyanurate dihydrate 51580-86-0 Present

U.S. - Rhode Island - Hazardous Substance List
Sodium dichloroisocyanurate dihydrate 51580-86-0 Flammable

Inventory name

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

<table>
<thead>
<tr>
<th>LEGEND HMIS/NFPA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>/ 3</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>1</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 05-Oct-2011
Effective date 01-Oct-2011
Expiry date 01-Oct-2014
Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.