1. Product and Company Identification

Product Name: Spa Calcium Hardness Increaser
CAS #: Mixture
Product use: Spa water treatment
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
WARNING
EYE IRRITANT

Potential short term health effects
Routes of exposure: Eye, Skin contact, Inhalation, Ingestion.
Eyes: Causes irritation.
Skin: May cause irritation.
Inhalation: Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Ingestion: May cause stomach distress, nausea or vomiting.

Target organs: Eyes, Skin.
Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin.
OSHA Regulatory Status: This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Potential environmental effects: Not available

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>60 - 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 if irritation develops or persists.
Skin contact: Brush away excess of dry material. Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
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. Wear safety glasses. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties: Not flammable by WHMIS/OSHA criteria.
Extinguishing media: Not applicable.
Suitable extinguishing media: Treat for surrounding material.
Unsuitable extinguishing media
Not available

Protection of firefighters
Specific hazards arising from the chemical
Not available

Protective equipment for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Hydrogen chloride. Chlorine gas.

Explosion data
Sensitivity to mechanical impact
Not available

Sensitivity to static discharge
Not available

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
Stop leak if you can do so without risk.

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.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material. Avoid contact with eyes. Wash thoroughly after handling.

Storage
Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits
Ingredient(s)  Exposure Limits
Calcium chloride  ACGIH-TLV
Not established
OSHA-PEL
Not established

Engineering controls
General ventilation normally adequate.

Personal protective equipment
Eye / face protection
Wear safety glasses with side shields.

Hand protection
If there is constant skin contact, rubber gloves are recommended.

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

Appearance
Crystalline.

Color
White

Form
Solid

Odor
Odorless

Odor threshold
Not available

Physical state
Solid

pH
Not available

Melting point
Not available
Freezing point Not available
Boiling point Not available
Pour point Not available
Evaporation rate Not available
Flash point Not available
Auto-ignition temperature Not available
Flammability limits in air, lower, % by volume Not applicable
Flammability limits in air, upper, % by volume Not applicable
Vapor pressure Not available
Vapor density Not available
Specific gravity Not available
Octanol/water coefficient Not available
Percent volatile Not available

10. Stability and Reactivity

Reactivity
Reacts with soft metals such as aluminum and zinc.
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.
Incompatible materials
Acids. Soft metals.
Hazardous decomposition products
May include and are not limited to: Hydrogen chloride. Chlorine gas.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) LC50
Calcium chloride Not available

Component analysis - Oral LD50
Ingredient(s) LD50
Calcium chloride 1000 mg/kg rat; 1940 mg/kg mouse

Effects of acute exposure
Eye Causes irritation.
Skin May cause irritation.
Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Ingestion May cause stomach distress, nausea or vomiting.
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
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.
Ecotoxicity - Freshwater Fish - Acute Toxicity Data
Calcium chloride 10043-52-4 96 Hr LC50 Lepomis macrochirus: 10650 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data
Calcium chloride 10043-52-4 48 Hr EC50 Daphnia magna: 52 mg/L
## 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Disposal instructions</th>
<th>Review federal, state/provincial, and local government requirements prior to disposal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

## 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 D - Division 2B

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical

Yes

**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 - No

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

### 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

#### LEGEND

<table>
<thead>
<tr>
<th>HMIS/NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
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</thead>
<tbody>
<tr>
<td>Severe</td>
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<td>0</td>
<td>0</td>
<td>B</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

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**

01-Jun-2011

**Effective date**

01-Jul-2011

**Expire date**

01-Jul-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.