1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Spa pH Increaser</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
<tr>
<td>Product use</td>
<td>pH adjuster</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Natural Chemistry, Inc.</td>
</tr>
<tr>
<td></td>
<td>40 Richards Ave.</td>
</tr>
<tr>
<td></td>
<td>Norwalk, CT 06854 US</td>
</tr>
<tr>
<td></td>
<td>Phone: (800) 753-1233</td>
</tr>
<tr>
<td></td>
<td>Emergency Phone: CHEMTREC (800) 424-9300</td>
</tr>
</tbody>
</table>

2. Hazards Identification

<table>
<thead>
<tr>
<th>Emergency overview</th>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EYE AND SKIN IRRITANT. Corrosive to aluminum.</td>
</tr>
<tr>
<td>Potential short term health effects</td>
<td>Eye, Skin contact, Inhalation, Ingestion.</td>
</tr>
<tr>
<td>Routes of exposure</td>
<td>Eyes: May cause severe irritation.</td>
</tr>
<tr>
<td></td>
<td>Skin: May cause irritation.</td>
</tr>
<tr>
<td></td>
<td>Inhalation: Dusts of this product may cause irritation of the nose, throat, and respiratory tract.</td>
</tr>
<tr>
<td></td>
<td>Ingestion: May cause stomach distress, nausea or vomiting.</td>
</tr>
<tr>
<td>Target organs</td>
<td>Eyes. Skin. Respiratory system.</td>
</tr>
<tr>
<td>Chronic effects</td>
<td>Prolonged or repeated exposure can cause drying, defatting and dermatitis.</td>
</tr>
<tr>
<td>Signs and symptoms</td>
<td>Symptoms may include redness, edema, drying, defatting and cracking of the skin.</td>
</tr>
<tr>
<td>OSHA Regulatory Status</td>
<td>This product is a &quot;Hazardous Chemical&quot; as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</td>
</tr>
<tr>
<td>Potential environmental effects</td>
<td>Not available</td>
</tr>
</tbody>
</table>

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

<table>
<thead>
<tr>
<th>First aid procedures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Brush away excess of dry material. Flush with water. Obtain medical attention if irritation persists.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.</td>
</tr>
<tr>
<td>Notes to physician</td>
<td>Symptoms may be delayed.</td>
</tr>
<tr>
<td>General advice</td>
<td>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.</td>
</tr>
</tbody>
</table>

5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flammable properties</th>
<th>Not flammable by WHMIS/OSHA criteria.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing media</td>
<td>Suitable extinguishing media: Treat for surrounding material.</td>
</tr>
</tbody>
</table>
Unsuitable extinguishing media
Protection of firefighters
Specific hazards arising from the chemical
Protective equipment for firefighters
Hazardous combustion products
Explosion data
Sensitivity to mechanical impact
Sensitivity to static discharge

Not available

Firefighters should wear full protective clothing including self contained breathing apparatus.

May include and are not limited to: Oxides of carbon. Oxides of sodium.

Not available

Not available

6. Accidental Release Measures

Personal precautions
Environmental precautions
Methods for containment
Methods for cleaning up

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.

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

Stop leak if you can do so without risk.

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
Storage

Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Avoid breathing dust.

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

8. Exposure Controls / Personal Protection

Exposure limits
Ingredient(s) Sodium carbonate
Exposure Limits ACGIH-TLV
ACGIH-
Not established
OSHA-PEL
OSHA-
Not established

Engineering controls
Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment
Eye / face protection
Hand protection
Skin and body protection
Respiratory protection
General hygiene considerations

Wear chemical goggles.

Rubber gloves. Confirm with a reputable supplier first.

As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Granules
Color White
Form Solid
Odor Odorless
Odor threshold Not available
Physical state Solid
pH 11.3
Melting point Not available
## 10. Stability and Reactivity

**Reactivity**  
This product reacts with acids.

**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**  

**Hazardous decomposition products**  
May include and are not limited to: Oxides of carbon. Oxides of sodium.

## 11. Toxicological Information

### Component analysis - LC50
<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>400 mg/m3 guinea pig</td>
</tr>
</tbody>
</table>

### Component analysis - Oral LD50
<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>4090 mg/kg rat</td>
</tr>
</tbody>
</table>

### Effects of acute exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>May cause severe irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Dusts of this product may cause irritation of the nose, throat, and respiratory tract.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause stomach distress, nausea or vomiting.</td>
</tr>
</tbody>
</table>

### 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 - Freshwater Algae - Acute Toxicity Data
Sodium carbonate 497-19-8 120 Hr EC50 Nitzschia: 242 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data
Sodium carbonate 497-19-8 96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data
Sodium carbonate 497-19-8 48 Hr EC50 Daphnia magna: 265 mg/L

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 Review federal, state/provincial, and local government requirements prior to disposal.
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.

Canada - WHMIS - Ingredient Disclosure List
Sodium carbonate 497-19-8 1 %

WHMIS status Controlled
WHMIS classification Class D - Division 2B, Class E - Corrosive Material

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.

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

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.

Disclaimer

Issue date
31-May-2011

Effective date
01-Jul-2011

Expiry 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.