1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Pool First Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
<tr>
<td>Product use</td>
<td>Water cleaning compound</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

Emergency overview

CAUTION

EYE AND SKIN IRRITANT.

Potential short term health effects

Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
May cause irritation.

Skin
May cause irritation.

Inhalation
May cause respiratory tract irritation.

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.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Potential environmental effects
This product has not been tested.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polydimethyldiallylammonium chloride</td>
<td>26062-79-3</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact
Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact
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.

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.

5. Fire Fighting Measures

Flammable properties
Not flammable by WHMIS/OSHA criteria.

Extinguishing media
Not flammable by WHMIS/OSHA criteria.

Suitable extinguishing media
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: Oxides of carbon.

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
Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for containment
Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material.

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
Polydimethylallylammonium 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
Rubber 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

Appearance
Not available
Color
dark amber
Form
Liquid
Odor
Slight
Odor threshold
Not available
Physical state
Liquid
pH
8 - 9
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 available
Flammability limits in air, upper, % by volume Not available
Vapor pressure Not available
Vapor density Not available
Specific gravity 1.012
Octanol/water coefficient Not available
Solubility (H2O) miscible
Percent volatile Not available

10. Stability and Reactivity

Reactivity None known.
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. Oxidizers.
Hazardous decomposition products May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) LC50
Polydimethyldiallylammonium chloride Not available
Component analysis - Oral LD50
Ingredient(s) LD50
Polydimethyldiallylammonium chloride 3000 mg/kg rat; 1720 mg/kg mouse; 3250 mg/kg guinea pig

Effects of acute exposure
Eye May cause irritation.
Skin May cause irritation.
Inhalation May cause respiratory tract irritation.
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 Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity Non-hazardous by WHMIS/OSHA criteria.
Name of Toxicologically Synergistic Products Not available

12. Ecological Information

Ecotoxicity Not available
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.
WHMIS status: Controlled
WHMIS classification: Class D - Division 2B
WHMIS labeling:

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.

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

<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>
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</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>
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<tbody>
<tr>
<td>Health</td>
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<tr>
<td>Flammability</td>
<td>0</td>
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<tr>
<td>Physical Hazard</td>
<td>0</td>
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<tr>
<td>Personal Protection</td>
<td>B</td>
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</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.

**Disclaimer**

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**Effective date**
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**Expiry date**
15-Mar-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.