



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product name** Salt Water Magic Liquid  
**CAS #** Mixture  
**Product use** Water cleaning compound and Phosphate remover  
**Manufacturer** Natural Chemistry L.P.  
40 Richards Ave.  
Norwalk, CT 06854 US  
Phone: (800) 753-1233  
Emergency Phone: CHEMTREC (800) 424-9300

## 2. Hazards Identification

**Emergency overview** CAUTION  
MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

**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** See section 12.

## 3. Composition/Information on Ingredients

| Components         | CAS #      | Percent |
|--------------------|------------|---------|
| Lanthanum chloride | 10099-58-8 | 3 - 7   |

## 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.

**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.

## 5. Fire Fighting Measures

**Flammable properties** Not flammable by WHMIS/OSHA criteria.

**Extinguishing media**

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

|                                                              |                                                                                                 |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Unsuitable extinguishing media</b>                        | Not available                                                                                   |
| <b>Protection of firefighters</b>                            |                                                                                                 |
| <b>Specific hazards arising from the chemical</b>            | Not available                                                                                   |
| <b>Protective equipment and precautions for firefighters</b> | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| <b>Hazardous combustion products</b>                         | May include and are not limited to: Oxides of sulfur. Hydrogen chloride.                        |
| <b>Explosion data</b>                                        |                                                                                                 |
| <b>Sensitivity to mechanical impact</b>                      | Not available.                                                                                  |
| <b>Sensitivity to static discharge</b>                       | Not available.                                                                                  |

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## 6. Accidental Release Measures

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|                                  |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>      | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.                                                                                                                                                            |
| <b>Environmental precautions</b> | Do not discharge into lakes, streams, ponds or public waters.                                                                                                                                                                                                                                                                                   |
| <b>Methods for containment</b>   | Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                                                                                                                                     |
| <b>Methods for cleaning up</b>   | 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 to original containers for re-use. |

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## 7. Handling and Storage

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|                 |                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Use good industrial hygiene practices in handling this material.<br>Avoid contact with eyes and skin.<br>Wash thoroughly after handling. |
| <b>Storage</b>  | Keep out of reach of children.<br>Store in a closed container away from incompatible materials.                                          |

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## 8. Exposure Controls/Personal Protection

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|                                       |                                                                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure limits</b>                | Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.                                                          |
| <b>Engineering controls</b>           | General ventilation normally adequate.                                                                                                                                      |
| <b>Personal protective equipment</b>  |                                                                                                                                                                             |
| <b>Eye / face protection</b>          | Wear safety glasses with side shields.                                                                                                                                      |
| <b>Hand protection</b>                | Rubber gloves. Confirm with a reputable supplier first.                                                                                                                     |
| <b>Skin and body protection</b>       | As required by employer code.                                                                                                                                               |
| <b>Respiratory protection</b>         | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.                                                                                          |
| <b>General hygiene considerations</b> | 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. |

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## 9. Physical and Chemical Properties

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|                       |                |
|-----------------------|----------------|
| <b>Appearance</b>     | Cloudy         |
| <b>Color</b>          | Amber          |
| <b>Form</b>           | Liquid         |
| <b>Odor</b>           | Slight         |
| <b>Odor threshold</b> | Not available. |
| <b>Physical state</b> | Liquid.        |
| <b>pH</b>             | 2.1 - 2.3      |
| <b>Freezing point</b> | Not available. |
| <b>Boiling point</b>  | Not available. |
| <b>Pour point</b>     | Not available. |

|                                                       |                  |
|-------------------------------------------------------|------------------|
| <b>Evaporation rate</b>                               | Not available    |
| <b>Flash point</b>                                    | Not available.   |
| <b>Auto-ignition temperature</b>                      | Not available.   |
| <b>Flammability limits in air, upper, % by volume</b> | Not available.   |
| <b>Flammability limits in air, lower, % by volume</b> | Not available.   |
| <b>Vapor pressure</b>                                 | Not available.   |
| <b>Vapor density</b>                                  | Not available.   |
| <b>Specific gravity</b>                               | 1.02 - 1.05      |
| <b>Partition coefficient (n-octanol/water)</b>        | Not available.   |
| <b>Solubility (water)</b>                             | Complete         |
| <b>Relative density</b>                               | 8.6 - 8.8 lb/gal |
| <b>Viscosity</b>                                      | Not available.   |
| <b>VOC</b>                                            | Not available    |
| <b>Percent volatile</b>                               | Not available    |

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### 10. Stability and Reactivity

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|                                           |                                                                          |
|-------------------------------------------|--------------------------------------------------------------------------|
| <b>Reactivity</b>                         | This product may react with strong alkalis.                              |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                                 |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                             |
| <b>Conditions to avoid</b>                | Do not mix with other chemicals.                                         |
| <b>Incompatible materials</b>             | Caustics.                                                                |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of sulfur. Hydrogen chloride. |

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### 11. Toxicological Information

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#### Toxicological data

| Components                          | Species       | Test Results |
|-------------------------------------|---------------|--------------|
| Lanthanum chloride (CAS 10099-58-8) |               |              |
| <b>Acute</b>                        |               |              |
| <i>Dermal</i>                       |               |              |
| LD50                                | Not available |              |
| <i>Inhalation</i>                   |               |              |
| LC50                                | Not available |              |
| <i>Oral</i>                         |               |              |
| LD50                                | Rat           | 2370 mg/kg   |

#### Effects of acute exposure

|                                                     |                                                 |
|-----------------------------------------------------|-------------------------------------------------|
| <b>Eye contact</b>                                  | May cause irritation.                           |
| <b>Skin contact</b>                                 | May cause irritation.                           |
| <b>Inhalation</b>                                   | May cause respiratory tract irritation.         |
| <b>Ingestion</b>                                    | May cause stomach distress, nausea or vomiting. |
| <b>Sensitization</b>                                | Non-hazardous by WHMIS/OSHA criteria.           |
| <b>Chronic effects</b>                              | Non-hazardous by WHMIS/OSHA criteria.           |
| <b>Carcinogenicity</b>                              | Non-hazardous by WHMIS/OSHA criteria.           |
| <b>Mutagenicity</b>                                 | Non-hazardous by WHMIS/OSHA criteria.           |
| <b>Reproductive effects</b>                         | Non-hazardous by WHMIS/OSHA criteria.           |
| <b>Teratogenicity</b>                               | Non-hazardous by WHMIS/OSHA criteria.           |
| <b>Name of Toxicologically Synergistic Products</b> | Not available.                                  |

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## 12. Ecological Information

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**Ecotoxicity** See below

### Ecotoxicological data

#### Components

Lanthanum chloride (CAS 10099-58-8)

#### Aquatic

Crustacea

EC50

#### Species

Water flea (*Daphnia carinata*)

#### Test Results

0.043 mg/l, 48 hours

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**Persistence and degradability** Not available.

**Bioaccumulation / Accumulation** Not available

**Mobility in environmental media** Not available.

**Environmental effects** Not available.

**Aquatic toxicity** Not available.

**Chemical fate information** Not available.

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## 13. Disposal Considerations

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**Disposal instructions** Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

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## 15. Regulatory Information

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**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. All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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**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

**Clean Water Act (CWA)**

Hazardous substance

**State regulations**

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

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**US - Texas Effects Screening Levels: Listed substance**

Lanthanum chloride (CAS 10099-58-8) Listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

Not regulated.

**US. Rhode Island RTK**

Not regulated.

**Inventory status**

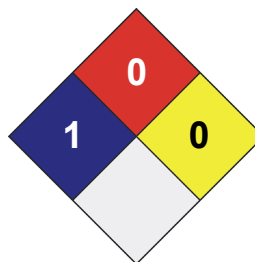
| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|-----------------------------------------------|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

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

**16. Other Information**

| LEGEND   |   |
|----------|---|
| Severe   | 4 |
| Serious  | 3 |
| Moderate | 2 |
| Slight   | 1 |
| Minimal  | 0 |

|                            |     |
|----------------------------|-----|
| <b>HEALTH</b>              | / 1 |
| <b>FLAMMABILITY</b>        | 0   |
| <b>PHYSICAL HAZARD</b>     | 0   |
| <b>PERSONAL PROTECTION</b> | X   |

**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.

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**Effective date**

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**Expiry date**

15-November-2016

**Prepared by**

Dell Tech Laboratories, Ltd. Phone: (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.



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

|                     |                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b> | Cell Protect - US                                                                                                                       |
| <b>CAS #</b>        | Mixture                                                                                                                                 |
| <b>Product use</b>  | Deactivates iron, copper, and other trace metals. Prevents stains and water discoloration.                                              |
| <b>Manufacturer</b> | Natural Chemistry, LLC<br>40 Richards Ave.<br>Norwalk, CT 06854 US<br>Phone: (800) 753-1233<br>Emergency Phone: CHEMTREC (800) 424-9300 |

## 2. Hazards Identification

|                                            |                                                                                                                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emergency overview</b>                  | CAUTION<br>MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.                                                                                                       |
| <b>Potential short term health effects</b> |                                                                                                                                                                       |
| <b>Routes of exposure</b>                  | Eye, Skin contact, Inhalation, Ingestion.                                                                                                                             |
| <b>Eyes</b>                                | May cause irritation.                                                                                                                                                 |
| <b>Skin</b>                                | May cause irritation.                                                                                                                                                 |
| <b>Inhalation</b>                          | May cause respiratory tract irritation.                                                                                                                               |
| <b>Ingestion</b>                           | May cause stomach distress, nausea or vomiting.                                                                                                                       |
| <b>Target organs</b>                       | Eyes. Skin.                                                                                                                                                           |
| <b>Chronic effects</b>                     | Prolonged or repeated exposure can cause drying, defatting and dermatitis.                                                                                            |
| <b>Signs and symptoms</b>                  | Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. |
| <b>OSHA Regulatory Status</b>              | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.                                                        |
| <b>Potential environmental effects</b>     | See section 12.                                                                                                                                                       |

## 3. Composition / Information on Ingredients

| Ingredient(s)     | CAS #       | Percent |
|-------------------|-------------|---------|
| Acrylic copolymer | Proprietary | 10 - 20 |
| Citric Acid       | 77-92-9     | 0.1 - 1 |

## 4. First Aid Measures

|                             |                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>First aid procedures</b> |                                                                                                                                                                                                                                                                                                                     |
| <b>Eye contact</b>          | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.                                                                                                                                                                                |
| <b>Skin contact</b>         | Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.                                                                                                                                                                                                                   |
| <b>Inhalation</b>           | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.                                                                                                                                                                                                                        |
| <b>Ingestion</b>            | Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.                                                                                                                                                                                          |
| <b>Notes to physician</b>   | Symptoms may be delayed.                                                                                                                                                                                                                                                                                            |
| <b>General advice</b>       | 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. |

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## 5. Fire Fighting Measures

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|                                                   |                                                                                                 |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Flammable properties</b>                       | Not flammable by OSHA criteria.                                                                 |
| <b>Extinguishing media</b>                        |                                                                                                 |
| <b>Suitable extinguishing media</b>               | Dry chemical. Carbon dioxide. Water spray. Foam.                                                |
| <b>Unsuitable extinguishing media</b>             | Not available                                                                                   |
| <b>Protection of firefighters</b>                 |                                                                                                 |
| <b>Specific hazards arising from the chemical</b> | Not available                                                                                   |
| <b>Protective equipment for firefighters</b>      | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| <b>Hazardous combustion products</b>              | May include and are not limited to: Oxides of carbon.                                           |
| <b>Explosion data</b>                             |                                                                                                 |
| <b>Sensitivity to mechanical impact</b>           | Not available                                                                                   |
| <b>Sensitivity to static discharge</b>            | Not available                                                                                   |

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## 6. Accidental Release Measures

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|                                  |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>      | 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.                                                                                                             |
| <b>Environmental precautions</b> | Do not discharge into lakes, streams, ponds or public waters.                                                                                                                                                                                                                                                                                   |
| <b>Methods for containment</b>   | Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.                                                                                                                                                                                                                                     |
| <b>Methods for cleaning up</b>   | 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 to original containers for re-use. |

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## 7. Handling and Storage

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|                 |                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Use good industrial hygiene practices in handling this material.<br>Avoid contact with eyes and skin.<br>Wash thoroughly after handling. |
| <b>Storage</b>  | Keep out of reach of children.<br>Store in a closed container away from incompatible materials.                                          |

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## 8. Exposure Controls / Personal Protection

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| <b>Exposure limits</b>               |                                                                                    |
|--------------------------------------|------------------------------------------------------------------------------------|
| <b>Ingredient(s)</b>                 | <b>Exposure Limits</b>                                                             |
| Acrylic copolymer                    | <b>ACGIH-TLV</b><br>Not established<br><b>OSHA-PEL</b><br>Not established          |
| Citric Acid                          | <b>ACGIH-TLV</b><br>TWA: 10 mg/m3<br><b>OSHA-PEL</b><br>TWA: 10 mg/m3              |
| <b>Engineering controls</b>          | General ventilation normally adequate.                                             |
| <b>Personal protective equipment</b> |                                                                                    |
| <b>Eye / face protection</b>         | Wear safety glasses with side shields.                                             |
| <b>Hand protection</b>               | Rubber gloves. Confirm with a reputable supplier first.                            |
| <b>Skin and body protection</b>      | As required by employer code.                                                      |
| <b>Respiratory protection</b>        | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. |

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**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

|                                                       |                |
|-------------------------------------------------------|----------------|
| <b>Appearance</b>                                     | Clear          |
| <b>Color</b>                                          | Colorless      |
| <b>Form</b>                                           | Liquid         |
| <b>Odor</b>                                           | Mild           |
| <b>Odor threshold</b>                                 | Not available  |
| <b>Physical state</b>                                 | Liquid         |
| <b>pH</b>                                             | 3.5 - 4.5      |
| <b>Freezing point</b>                                 | Not available  |
| <b>Boiling point</b>                                  | Not available  |
| <b>Pour point</b>                                     | Not available  |
| <b>Evaporation rate</b>                               | Not available  |
| <b>Flash point</b>                                    | None           |
| <b>Auto-ignition temperature</b>                      | Not available  |
| <b>Flammability limits in air, lower, % by volume</b> | Not available  |
| <b>Flammability limits in air, upper, % by volume</b> | Not applicable |
| <b>Vapor pressure</b>                                 | Not available  |
| <b>Vapor density</b>                                  | Not available  |
| <b>Specific gravity</b>                               | 1.0516         |
| <b>Relative density</b>                               | 8.7752         |
| <b>Octanol/water coefficient</b>                      | Not available  |

## 10. Stability and Reactivity

|                                           |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| <b>Reactivity</b>                         | None known.                                           |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.              |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.          |
| <b>Conditions to avoid</b>                | Do not mix with other chemicals.                      |
| <b>Incompatible materials</b>             | Caustics. Oxidizers. Reducing agents.                 |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon. |

## 11. Toxicological Information

### Component analysis - LC50

| <b>Ingredient(s)</b> | <b>LC50</b>   |
|----------------------|---------------|
| Acrylic copolymer    | Not available |
| Citric Acid          | Not available |

### Component analysis - Oral LD50

| <b>Ingredient(s)</b> | <b>LD50</b>                      |
|----------------------|----------------------------------|
| Acrylic copolymer    | Not available                    |
| Citric Acid          | 5040 mg/kg mouse; 3000 mg/kg rat |

### Effects of acute exposure

|                        |                                                 |
|------------------------|-------------------------------------------------|
| <b>Eye</b>             | May cause irritation.                           |
| <b>Skin</b>            | May cause irritation.                           |
| <b>Inhalation</b>      | May cause respiratory tract irritation.         |
| <b>Ingestion</b>       | May cause stomach distress, nausea or vomiting. |
| <b>Sensitization</b>   | Non-hazardous by OSHA criteria.                 |
| <b>Chronic effects</b> | Non-hazardous by OSHA criteria.                 |



|                                                     |                                 |
|-----------------------------------------------------|---------------------------------|
| <b>Carcinogenicity</b>                              | Non-hazardous by OSHA criteria. |
| <b>Mutagenicity</b>                                 | Non-hazardous by OSHA criteria. |
| <b>Reproductive effects</b>                         | Non-hazardous by OSHA criteria. |
| <b>Teratogenicity</b>                               | Non-hazardous by OSHA criteria. |
| <b>Name of Toxicologically Synergistic Products</b> | Not available                   |

## 12. Ecological Information

|                                                            |                                                                                             |                                                    |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>Ecotoxicity</b>                                         | Components of this product have been identified as having potential environmental concerns. |                                                    |
| <b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b> |                                                                                             |                                                    |
| Citric Acid                                                | 77-92-9                                                                                     | 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static] |
| <b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>      |                                                                                             |                                                    |
| Citric Acid                                                | 77-92-9                                                                                     | 72 Hr EC50 Daphnia magna: 120 mg/L                 |
| <b>Persistence / degradability</b>                         | Not available                                                                               |                                                    |
| <b>Bioaccumulation / accumulation</b>                      | Not available                                                                               |                                                    |
| <b>Mobility in environmental media</b>                     | Not available                                                                               |                                                    |
| <b>Environmental effects</b>                               | Not available                                                                               |                                                    |
| <b>Aquatic toxicity</b>                                    | Not available                                                                               |                                                    |
| <b>Partition coefficient</b>                               | Not available                                                                               |                                                    |
| <b>Chemical fate information</b>                           | Not available                                                                               |                                                    |

## 13. Disposal Considerations

|                                              |                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Review federal, state and local government requirements prior to disposal. |
| <b>Waste from residues / unused products</b> | Not available                                                              |
| <b>Contaminated packaging</b>                | Not available                                                              |

## 14. Transport Information

**U.S. Department of Transportation (DOT)**  
Not regulated as dangerous goods.

## 15. Regulatory Information

### 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 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 status**

**Country(s) or region**

United States & Puerto Rico

**Inventory name**

Toxic Substances Control Act (TSCA) Inventory

**On inventory (yes/no)\***

Yes

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

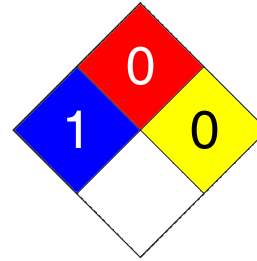
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**16. Other Information**

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| LEGEND<br>HMIS/NFPA |   |
|---------------------|---|
| Severe              | 4 |
| Serious             | 3 |
| Moderate            | 2 |
| Slight              | 1 |
| Minimal             | 0 |

|                     |     |
|---------------------|-----|
| Health              | / 1 |
| Flammability        | 0   |
| Physical Hazard     | 0   |
| Personal Protection | X   |



**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.

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**Effective date**

01-Feb-2013

**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.