

**SECTION 1 - PRODUCT AND COMPANY INFORMATION**

Product Name: : Limesolve  
 Product Use: : Lime Solvent  
 Supplier Name and Address: : Corporate Facility Supply  
 7 Neilson Street  
 St. Catharines, ON L2M 5V9  
  
 Telephone: : (905) 682-8888  
 Emergency Telephone: : CANUTEC (613) 996-6666

**SECTION 2 - HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

**Physical State:** Liquid  
**GHS Classification:**  
 Skin Irritation: Category 1C  
 Eye Irritation: Category 1  
 Acute Toxicity: Category 4  
**GHS Label Elements:**  
 Hazard Pictograms



Signal Word:  
 Hazard Statements:

Danger  
 H302 Harmful if swallowed  
 H312 Harmful in contact with skin  
 H318 Causes serious eye damage

Precautionary Statements:

**Prevention**  
 P102 Keep out of reach of children  
 P262 Do not get in eyes, on skin, or on clothing  
 P284 In case of inadequate ventilation wear respiratory protection

**Response**  
 P302 IF ON SKIN: Flush with plenty of water for at least 15 minutes  
 P305 IF IN EYES: Flush with plenty of water for at least 15 minutes  
 P332+P313 If skin irritation persists, get medical attention

**Potential Health Effects:**

Inhalation : Strongly irritating to the eyes, nose, throat and lungs. High concentration of vapours will cause irritation. Similar effects with misting the product.  
 Skin : Dangerous in case of skin contact. Causes burns. Symptoms may be delayed.  
 Eyes : Contact can result in corneal damage or blindness. Immediate pain, severe burns  
 Ingestion : Harmful or fatal if swallowed.

Aggravated Medical Condition  
Symptoms of Overexposure

: None known  
: See section 11.

**SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS**

**HAZARDOUS INGREDIENTS**

| Chemical Name      | CAS-No.   | Concentration [%] |
|--------------------|-----------|-------------------|
| Phosphoric Acid    | 7664-38-2 | 15-40             |
| Hydrogen Chloride  | 7647-01-0 | 1-5               |
| Hydroxyacetic Acid | 79-14-1   | 1-5               |
| Citric Acid        | 77-92-9   | 1-5               |

**SECTION 4 - FIRST-AID MEASURES**

**General Advice** : Move out of dangerous area  
Consult a physician  
Show this Safety Data Sheet to the doctor in attendance

**Inhalation** : Move victim to fresh air. Give artificial respiration only if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing and no pulse. Obtain medical attention immediately.

**Skin Contact** : Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Seek medical attention if irritation develops/persists.

**Eye Contact** : If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and persists. Rinse with water. Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Seek medical attention if irritation develops.

**Ingestion** : Do not induce vomiting. Rinse mouth with water then drink one or two glasses of water. Seek medical attention, or contact poison control centre immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. IF SWALLOWED: immediately call a POISON CENTRE or doctor/physician.

**SECTION 5 - FIRE-FIGHTING MEASURES**

**Suitable extinguishing media** : Alcohol foam, carbon dioxide, dry chemical

**Specific hazards arising from the chemical** : None known

**Special protective actions for fire-fighters** : None

**Additional advice** : None

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

|   |   |
|---|---|
| <b>Personal precautions</b>                                   | : Wear appropriate protective equipment.  |
| <b>Environmental precautions</b>                              | : Prevent entry into sewers or streams. Dike if needed.   |
| <b>Methods and materials for containment/<br/>cleaning up</b> | : Recover and reuse as much of the product as possible.<br>Restrict access to area until completion of clean up.<br>Ensure trained personnel conduct clean up. Do not touch<br>spilled material |
| <b>Additional advice</b>                                      | : None  |

**SECTION 7 - HANDLING AND STORAGE**

|                                      |   |
|--------------------------------------|---|
| <b>Precautions for safe handling</b> | : Product is corrosive. Avoid contact with skin, eyes and<br>clothing. Wear proper protective equipment, including<br>rubber gloves.          |
| <b>Conditions for safe storage</b>   | : Keep out of reach of children. Do not freeze. Store in a<br>closed container away from incompatible materials as<br>provided in Section 10. |
| <b>Other data</b>                    | : Do not freeze.  |

**SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION**

|                                      |   |
|--------------------------------------|---|
| <b>Control parameters</b>            | : Not available   |
| <b>Engineering Controls</b>          | : Mechanic ventilation should be adequate.<br>Ensure that eyewash stations and safety showers are<br>close to the workstation location  |
| <b>Personal Protective Equipment</b> |   |
| Eye/face protection                  | : Safety glasses with side shields when there is potential for<br>eye contact. Face shield also recommended for handling<br>large amounts. Contact lenses should not be worn                      |
| Hand protection                      | : Rubber gloves are recommended   |
| Skin protection                      | : Protective coveralls or thick clothing that covers exposed<br>skin  |
| Respiratory protection               | : Wear a NIOSH/MSHA approved air-purifying respirator<br>equipped with chlorine cartridges when vapours reach high<br>levels  |
| Hygiene measures                     | : Handle in accordance with good industrial hygiene and<br>safety practice<br>When using do not eat or drink<br>When using do not smoke<br>Wash hands before breaks and at the end of the workday |

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|  |                      |
|--|----------------------|
| <b>Appearance:</b>                                   | : Clear green liquid |
| <b>Odor:</b>   | : Acidic odor        |
| <b>Odor Threshold:</b>                               | : Not available      |
| <b>pH:</b>   | : <1                 |
| <b>Melting point/ freezing point:</b>                | : Not available      |
| <b>Initial boiling point and boiling range:</b>      | : Not available      |
| <b>Flash point:</b>                                  | : Not available      |
| <b>Evaporation rate:</b>                             | : Not available      |
| <b>Flammability (solid, gas):</b>                    | : Not available      |
| <b>Upper/lower flammability or explosive limits:</b> | : Not available      |
| <b>Vapour pressure:</b>                              | : Not available      |
| <b>Vapour density:</b>                               | : Not available      |

Relative density (g/mL): : 1.17  
 Water solubility: : Very soluble in water  
 Solubility in other solvents: : Not available  
 Partition coefficient: n-octanol/water: : Not available  
 Auto-ignition temperature: : Not available  
 Decomposition temperature: : Not available  
 Viscosity: : As water

**SECTION 10 - STABILITY AND REACTIVITY**

Reactivity : Normally stable  
 Chemical Stability : Stable under normal conditions  
 Conditions to avoid : Unintentional contact with water and moisture. Keep containers tightly closed, when not in use.  
 Incompatible materials : Strong bases, reactive metals. When diluting DO NOT add water to the acid. Add acid to water.  
 Hazardous decomposition products : Toxic chlorine fumes.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Product Information**  
 Acute toxicity : Not available  
 Skin Corrosion/ Irritation : Not available  
 Serious eye damage/irritation : Not available  
 Respiratory or skin sensitization : Not available  
 Germ cell mutagenicity : Not available  
 Carcinogenicity : None of the ingredients is listed by IARC, ACGIH, NTP, and OSHA as carcinogen  
 Reproductive toxicity : Not Available  
 STOT-single exposure : Not available  
 STOT-repeated exposure : Not available  
 Aspiration hazard : Not available

**SECTION 12 - ECOLOGICAL INFORMATION**

**Product Information:**  
 Toxicity: : Product is corrosive. Low pH (acidity) of material is harmful to aquatic life.  
 Persistence and degradability: : Not available  
 Bioaccumulative potential: : Not available  
 Mobility in soil: : Not available  
 Other adverse effects: : Not available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Product** : Sanitary sewer or dry absorbent if available.  
 For large quantities, contact local environmental department or government authorities  
 Do not dispose in drains, waterways, or soil  
 Do not contaminate ponds, or ditches with chemical or the used container

**SECTION 14 - TRANSPORT INFORMATION**

|   |   |
|---|---|
| <b>UN Number</b>  | : UN3264  |
| <b>Shipping Description</b>   | : TDG – Corrosive liquid, Acidic, Inorganic, n.o.s.<br>(Hydrochloric acid, Phosphoric acid) |
| <b>Transport hazard class(es)</b>   | : 8   |
| <b>Packing group, if applicable</b>   | : III   |
| <b>Environmental hazards</b>  | : Not available   |
| <b>Special precautions for user</b>   | : Not Available   |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | : Not applicable  |

**SECTION 15 - REGULATORY INFORMATION**

|                             |             |
|-----------------------------|-------------|
| <b>WHMIS Status</b>         | : Not known |
| <b>WHMIS classification</b> | : Class E   |

**SECTION 16 - OTHER INFORMATION**

**Prepared by:** Technical Services  
**Telephone number:** (905) 682-8888

**Preparation date:** January 2018

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