IDENTITY (As Used on Label & List): CA-1L  Resin Cleaner

-section I – Manufacturer

CASCADE WATER SERVICES
113 BLOOMINGDALE ROAD.
HICKSVILLE, NY 11801
Date Prepared: 07/05/07  Preparer: J. Nemetz

-section II – Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>OSHA PEL</th>
<th>ACGIH/TLV</th>
<th>Other Limits Recommend</th>
<th>% (Opt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric Acid, anhydrous</td>
<td>none</td>
<td>none</td>
<td></td>
<td>none</td>
</tr>
<tr>
<td>CAS# 77-92-97</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS# 7732-18-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

-section III – Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>-212-219 F</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>1.12</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>21.9 @77 F</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Unknown</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>Unknown</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Unknown</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Butyl Acetate = 1</td>
<td></td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Clear liquid, odorless; pH 1 - 2</td>
</tr>
</tbody>
</table>

-section IV – Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Method Used)</td>
<td>not flammable</td>
</tr>
<tr>
<td>LEL</td>
<td>none</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>not flammable</td>
</tr>
<tr>
<td>UEL</td>
<td>none</td>
</tr>
</tbody>
</table>

Extinguishing Media –
Dry chemical, carbon dioxide, water spray or foam

Special Fire Fighting Procedures –
Wear self-contained breathing apparatus and full protective clothing. Remove containers from fire if possible. Cool containers exposed to flame with water.

Unusual Fire and Explosion Hazards –
May form carbon dioxide, carbon monoxide and various hydrocarbons at temperatures greater than 307 F.
Section V – Reactivity Data

Stability – Stable: X Unstable: May crystallize at < 41 F; Biological growth may occur on condensate at < 86 F

Incompatibility (Materials to Avoid) –
Strong oxidizers, Metallic nitrates, Strong alkales.
May corrode copper, zinc, & aluminum alloys, carbon steel, and 304 stainless steel, forming hydrogen gas. May attack cement and some plastics.

Hazardous Decomposition of Byproducts –
Thermal decomposition results in acid fumes, carbon monoxide, and carbon dioxide.

Hazardous Polymerization –
May Occur:
Conditions to Avoid –
Will Not Occur: X none known

Section VI – Health Hazard Data

Routes of Entry – (Inhalation?) (Skin?) (Ingestion?) Skin, Eye, Inhalation, and Ingestion

Health Hazards (Acute and Chronic –
Inhalation may cause irritation of upper respiratory system, coughing and shortness of breath. Ingestion may cause abdominal pains, nausea, and vomiting. May cause irritation, swelling and pain. Prolonged contact may cause burns. May irritate eyes, causing stinging, tearing, redness, and swelling.


Signs and Symptoms of Exposure –
Irritation of exposed area.

Medical Conditions Generally Aggravated by Exposure –
Can aggravate existing skin and lung conditions (such as asthma).

Emergency and First Aid Procedures –
Eyes – immediately flush with lots of water for at least 15 minutes holding lids apart to ensure flushing of entire surface. Seek medical attention.
Skin – Flush area with water. Wash with soap and water. Remove clothing and wash before reuse.
Ingestion – If conscious, give 2 glasses of water or milk. DO NOT INDUCE VOMITING. Get medical help. Never give anything by mouth to an unconscious person.
Inhalation – Remove to fresh air. If breathing is difficult, give oxygen and get medical help.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled –
Contain spill. Absorb liquid with vermiculite, floor absorbent, or other absorbent materials. For larger spills, wear protective equipment. Contain spill and pump liquid to salvage drum. Remaining liquid may be taken up by sand, clay, earth, floor absorbent, and other absorbent materials and shoveled into containers.
Waste Disposal Method –
    Comply with all local, state, and federal EPA regulations for disposal. Product may have to be
    neutralized with a dilute alkaline material before disposal.

Precautions to be Taken in Handling and Storing –
    DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. KEEP
    CONTAINER CLOSED WHEN NOT IN USE. WASH THOROUGHLY AFTER HANDLING.
    Store in a cool, DRY, place. Store away from strong oxidizers. Protect container from
damage. WARNING: Empty container retains product residue and vapors. Observe all
    precautions even after container is emptied. Do not cut, grind, or weld container.

Other Precautions –
    Wear all protective equipment when handling. Do not wear contact lenses when handling.
The possibility of injury to the eyes is increased.

Section VIII – Control Measures

Respiratory Protection (Specify Type) –
    Use NIOSH approved respirator for dusts and mists.

Ventilation –
    Local Exhaust: Necessary
    Mechanical (General):
        Special:
        Other:

Protective Gloves: Rubber gloves, Chemical impermeable.
Eye Protection: Chemical safety goggles or glasses.

Other Protective Clothing or Equipment –
    Full body covering clothing. Have an Eyewash and Safety Shower on hand.

Work/Hygienic Practices –
    Wash thoroughly after handling, flushing well with water.