Safety Data Sheet  
Acid Concentrate

Document No. M-D6-003

Section I – Product and Company Identification

Product Name: ACID CONCENTRATE  
Synonyms: Dialysate concentrate for bicarbonate dialysis  
Chemicals present: See components below  
Chemical Families: Inorganic salts, sugar and acetic acid

Company Identification: Chief Medical Supplies Ltd.  
411 – 19 Street, S. E.  
Calgary, AB., Canada.  
T2E 6J7  
1.866.620.6034

For information, call: 1-403-207-6034  
Emergency Number: 1-403-207-6034

Section II – Hazards Identification

Appearance: Clear  
Physical State: Liquid  
Odor: Vinegar  
Hazards of Product: Corrosive  
Potential Health Hazards: May irritate eyes, nose and throat. May be harmful if swallowed.

Section III – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Chemical Formula</th>
<th>CAS No.</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>NaCl</td>
<td>7647-14-5</td>
<td>88.6*</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>KCl</td>
<td>7447-40-7</td>
<td>1.5*</td>
</tr>
<tr>
<td>Calcium Chloride</td>
<td>CaCl</td>
<td>10043-52-4</td>
<td>1.1*</td>
</tr>
<tr>
<td>Magnesium Chloride</td>
<td>MgCl</td>
<td>7786-30-3</td>
<td>0.4*</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>C₂H₄O₂</td>
<td>64-19-7</td>
<td>1.4*</td>
</tr>
<tr>
<td>Dextrose</td>
<td>C₆H₁₂O₆</td>
<td>50-99-7</td>
<td>7.5*</td>
</tr>
</tbody>
</table>

*Sodium Chloride will vary by formula from 86.8% to 90.5%, Calcium Chloride will vary by formula from 0.5% to 1.7%, Potassium Chloride will vary by formula from 0.0% to 3.0%, Magnesium Chloride will vary by formula from 0.3% to 0.6%, Dextrose will vary by formula from 4.5% to 9.0% and Acetic Acid will vary by formula from 0.8% to 2.0%.
Section IV – First Aid Measures

**Eye Contact:** Flush with plenty of water for a minimum of 15 minutes while holding the eyelids open. Seek medical attention.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or persists

**Ingestion:** If swallowed, do not induce vomiting. Drink a glass of water or milk and call a physician immediately. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove to fresh air.

Section V – Fire Fighting Measures

<table>
<thead>
<tr>
<th>Condition/Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Conditions of flammability:</strong></td>
<td>Not flammable</td>
</tr>
<tr>
<td><strong>Means of extinction:</strong></td>
<td>Not flammable</td>
</tr>
<tr>
<td><strong>Flash point and method of determination:</strong></td>
<td>Not flammable</td>
</tr>
<tr>
<td><strong>Upper flammable limit:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Lower flammable limit:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Hazardous combustion products:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosion data - sensitivity to mechanical impact:</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosion data - sensitivity to static discharge:</strong></td>
<td>Not available</td>
</tr>
</tbody>
</table>

Section VI – Accidental Release Measures

**Spills:** Put on eye protection, protective gloves, boots, clothing and a respirator if air contamination is above the permitted levels. Contain the spill. If allowed by federal, provincial or local regulatory authorities, flush the spill to the sewer. If mops, towels, paper towels or similar materials are used, ensure that these items are thoroughly rinsed with copious amounts of water. Do not reuse the liquid material.

Section VII – Handling and Storage

**Handling Procedures:** Handle with protective equipment listed in following section. Use good chemical handling procedures. Once the product has been removed, do not return to the original container.

**Storage Requirements:** Store in a cool, dry, well-ventilated area between 15-30°C. Store in tightly closed containers. Store unused product in original closed container.

Section VIII – Exposure Controls/Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation. If air contamination is above the permitted levels, use an approved respirator.

**Personal Protection**
- **Eyeware:** Safety glasses or goggles recommended. Face shield if splashes are likely.
- **Gloves:** Protective gloves are recommended to avoid skin contact.
- **Clothing:** A protective apron should be worn when splashes are likely. Rubber boots should be used for spill response.
- **Respirator:** None needed unless dust is present. Use a dust respirator mask if necessary.
Section IX – Physical and Chemical Properties

**Physical state:** Liquid

**Odour and appearance:** Clear with vinegar odour

**Specific gravity:** 1.2

**Boiling point:** 1413°C (for NaCl)

**pH:** 1.9 – 4.2

Section X – Stability and Reactivity

**Stability:** Stable

**Conditions to avoid:** Excessive dusting in presence of ignition source

**Incompatible materials:** Lithium metal, Bromine trifloride, strong oxidizers, sulfuric acid, strong bases

**Conditions of reactivity:** Not available

**Hazardous decomposition products:** Not available

**Hazardous polymerization:** Will not occur

Section XI – Toxicological Information

**Route of entry:** Skin and eye contact. Ingestion.

**Effects of acute exposure:** Irritation of contact area. May cause vomiting, diarrhea, muscle cramps, listlessness, hypotension, and cardiac arrhythmias if ingested.

**Effects of chronic exposure:** None expected

**Exposure limits:** Not available

**Irritancy of product:** See acute exposure due to contact.

**Sensitization to product:** None expected

**Carcinogenicity:** None

**Reproductive toxicity:** None

**Teratogenicity:** None

**Mutagenicity:** None

**Toxicologically synergistic products:** Not available

Section XII – Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found

Section XIII – Disposal Considerations

**Waste disposal:** Dispose in accordance with all Local, State and Federal regulations.
Section XIV – Transport Information

Special shipping information: Keep warm if shipping in cold conditions.
Transport of Dangerous Goods (TDG): None
Department of Transportation (DOT): None
International Maritime Dangerous Goods (IMO): None
International Civil Aviation Organization (ICAO): None

Section XV – Regulatory Information

WHIMIS classification: None
OSHA: Not hazardous

Section XVI – Other Information

SDS creation date: Jun 15, 2011
Last revision date: Jan 08, 2016

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Chief Medical Supplies be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Chief Medical Supplies has been advised of the possibility of such damages.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR