Section 1: Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Catalog Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1716, 1720, 1722, 1723, 1728, 1730, 1735, 1740, 1760, 1762, 1770, 1771, 1783, 1799, 1802, C-363, C-365, C020260, C020400, C020500, C020570, C020700, R1720500, R1763000, SC020260, SC020400, SC020480, SC020500, SC020570, SC020575, SC020700</td>
</tr>
</tbody>
</table>

Product Identity:
CALCIUM CHLORIDE Aqueous Solutions, CALCIUM CHLORIDE TS, CALCIUM CARBONATE STANDARDS, CALCIUM STANDARDS

Manufacturer's Name:
RICCA CHEMICAL COMPANY LLC

Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

CAGE Code: 0V553

Address:
448 West Fork Dr
Arlington, TX 76012

Telephone Number For Information:
817-461-5601

Date Prepared:
6/22/98

Revision: 16
Last Revised: 03/14/2007
Date Printed: 06/15/2007 4:52:42 pm

Section 2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Registry #</th>
<th>Concentration</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride Dihydrate</td>
<td>10035-04-8</td>
<td>0.1 – 30</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Water, Deionized</td>
<td>7732-18-5</td>
<td>Balance</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present any significant health hazards. Wash areas of contact with water. Ingestion may cause serum acidosis.

Target Organs: eyes, skin

Eye Contact: May cause slight irritation.

Inhalation: Not likely to be hazardous by inhalation.

Skin Contact: May cause slight irritation.

Ingestion: Ingestion of large quantity may cause nausea, vomiting, abdominal pain and serum acidosis.

Chronic Effects/Carcinogenicity: None

IARC - No.
NTP - No.
OSHA - No.

Reproductive Information: Not Applicable.

Teratology (Birth Defect) Information: Mutation data cited in ‘Registry of Toxic Effects of Chemical Substances’ for Calcium Chloride Dihydrate.
Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute with water or milk. Call a physician if necessary. Ingestion may cause serum acidosis.

Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**LFL:** Not Available.

**UFL:** Not Available.

**Method Used:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb with suitable material and dispose of in accordance with local regulations.

Section 7: Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

**Safety Storage Code:** General

Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

Section 9: Physical and Chemical Properties

- **Appearance:** Clear, colorless liquid
- **Odor:** Odorless
- **Solubility in Water:** In infinite
- **Specific Gravity:** Approximately 1 - 1.18
- **pH:** 8 - 9
- **Boiling Point(°C):** Approximately 100
- **Melting Point(°C):** Approximately 0
- **Vapor Pressure:** Not Applicable

Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatibility:** Methyl vinyl ether, Zinc, Boric Acid plus Calcium Oxide, and Bromine Trifluoride.

**Hazardous Decomposition Products:** Emits toxic fumes of Chlorine when heated to decomposition.

**Hazardous Polymerization:** Will not occur.

Section 11: Toxicological Information

LD50, Intraperitoneal, Mouse: (Calcium Chloride Dihydrate) 20,500 mg/kg, details of toxic effects not reported other than lethal dose value.

Section 12: Ecological Information
Ecotoxicological Information: The products of degradation are more toxic.
Chemical Fate Information: Calcium Chloride is only slightly persistent in the aquatic environment, with a half-life of less than 2 days.

Section 13. Disposal Considerations
Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information
Part Numbers:
This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)
OSHA Status: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.
Sara Title III:
- Section 302 Extremely Hazardous Substances: Not Applicable.
- Section 311/312 Hazardous Categories: No
- Section 313 Toxic Chemicals: Not Applicable.
California: None Reported.
Pennsylvania: None Reported.
RCRA Status: Not Applicable.
CERCLA Reportable Quantity: None Reported.

WHMIS: Not Applicable.

Section 16. Other Information
NFPA Ratings:
- Health: 1
- Flammability: 0
- Reactivity: 0
- Special Notice Key: None

HMIS Ratings:
- Health: 1
- Flammability: 0
- Reactivity: 0
- Protective Equipment: B (Protective Eyewear, Gloves)
Ecotoxicological Information:
The products of degradation are more toxic.

Chemical Fate Information:
Calcium Chloride is only slightly persistent in the aquatic environment, with a half-life of less than 2 days.

Section 13. Disposal Considerations
Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.
When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.