MATERIAL SAFETY DATA SHEET
BRINE ANTIFREEZE SOLUTION

SECTION 1: Product and Company Information
Product Name: Brine Antifreeze Solution (colored)

Manufacturer: Containment Solutions, 5150 Jefferson Chemical Rd, Conroe, Texas 77301, Telephone: 936-756-7731 (8am-5pm CST weekdays).

Emergency Contacts: Emergencies ONLY. CHEMTREC (24 hours everyday): 1-800-424-9300


SECTION 2: Composition and Ingredient Information

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride</td>
<td>Calcium Chloride</td>
<td>10043-52-4</td>
<td>30-42</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>Potassium Chloride</td>
<td>7447-40-7</td>
<td>1-3</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>1-2</td>
</tr>
<tr>
<td>Water</td>
<td>Water</td>
<td>7732-18-5</td>
<td>53-64</td>
</tr>
</tbody>
</table>

Note: See Section 8 of MSDS for exposure limit data for these ingredients.

SECTION 3: Hazards Identification
Appearance and Odor: Green liquid with no odor.

******************************************************************************
Emergency Overview
No unusual emergency situations are expected from this product.
******************************************************************************

Primary Route(s) of Exposure: inhalation, skin, eye

Potential Health Effects:

ACUTE (short term): Inhalation of vapors from this product are unlikely due to physical properties. Mists may cause irritation to the upper respiratory tract. Eye contact may cause moderate to severe irritation with corneal injury, which may be slow to heal. Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation and a burn. May cause more severe response if confined to skin or skin is scratched or cut. A single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts. Ingestion may cause gastrointestinal irritation or ulceration. Material is sometimes encountered at elevated temperatures and more intense effects as well as thermal burns are possible. See Section 8 for exposure controls.

CHRONIC (long term): No known chronic effects. See Section 11 of MSDS for an explanation of the toxicological data.

Medical Conditions Aggravated by Exposure: None likely.
SECTION 4: First Aid Measures

Inhalation: Move person to fresh air. Administer cardiac or pulmonary resuscitation (CPR) if a pulse is not detectable or if unable to breathe. Provide oxygen if breathing is difficult. Obtain immediate medical assistance.

Eye Contact: Flush eyes with running water for at least 15 minutes. Seek medical attention immediately.

Skin Contact: Remove contaminated clothing. Wash with mild soap and running water. Seek medical attention if irritation persists.

Ingestion: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical assistance.

Note to physician: Perform gastric lavage in accordance with procedures for ingestion of petroleum products.

SECTION 5: Fire Fighting Measures

Flash Point and Method: Not Applicable

Flammability Limits (%): LFL: Not Applicable  UFL: Not Applicable

Auto Ignition Temperature: Not Applicable

Extinguishing Media: Material is not combustible.

Unusual Fire and Explosion Hazards: None known.

Fire Fighting Instructions: Wear positive pressure self-contained breathing apparatus (SCBA).

Hazardous Combustion Products: Not Applicable

SECTION 6: Accidental Release Measures

Releases of this product to the land, water and air may require reporting to local, state and federal agencies.

Land Spill: Prevent material from entering sewers or waterways. Absorb with inert materials (vermiculite or sand) and place in a closed container for disposal as solid waste. Wash area well with water.

Water Spill: Material is soluble. Disperse any remaining residue to reduce aquatic harm.

Air Release: Only water vapor will be released.

SECTION 7: Handling and Storage

Storage Temperature: Not Applicable.

Storage Pressure: Not Applicable.

General: Avoid eye and prolonged skin contact. Always use cool water (less than 80°F, 27°C) when diluting calcium chloride solutions. Heat (possibly high temperatures) will develop during dilution operations.
SECTION 8: Exposure Controls and Personal Protection

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA PEL (8-hr TWA)</th>
<th>ACGIH TLV (8-hr TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>None Established</td>
<td>None Established</td>
</tr>
</tbody>
</table>

**Engineering Controls:** General dilution ventilation and/or local exhaust ventilation should be provided to minimize exposures.

**Personal Protection:**

**Respiratory Protection:** If irritation occurs, use a NIOSH/MSHA approved air purifying respirator for dusts/mists. Use respiratory protection in accordance with your company’s respiratory protection program, local or OSHA regulations under 29 CFR 1910.134.

**Skin Protection:** Wear long sleeved shirt, long pants and chemical resistant gloves such as polyvinyl alcohol, polyethylene or vitron. Leather clothing and shoes will be damaged by calcium chloride.

**Eye Protection:** Wear chemical protective goggles and a face shield.

**Work/Hygienic Practices:** Handle in accordance with good industrial hygiene and safety practices. These include avoiding any unnecessary exposures and removal of the material from skin, eyes and clothing. Launder contaminated clothing before reuse. Safety showers and eye wash stations should be available.

SECTION 9: Physical and Chemical Properties

**Vapor Pressure (mm Hg @ 250°C):** 7 - 15

**Vapor Density (Air–l):** Same as water.

**Specific Gravity (water–l):** 1.3 - 1.44

**Boiling Point:** 230 - 251 OF (110 - 1220°C)

**Solubility in Water:** Soluble

**pH:** Not Available

**Appearance:** Green Liquid.

**Evaporation Rate (n-Butyl Acetate=1):** Not Available

**Viscosity:** Not Available

**Slightly Basic Physical State:** Liquid

**Freezing Point:** Not Available

**Odor Type:** None

SECTION 10: Stability and Reactivity

**General:** Stable.

**Incompatible Materials and Conditions to Avoid:** Calcium chloride will: corrode most metals exposed to air; attack aluminum (and its alloys) and yellow brass; react with sulfuric acid to form hydrogen chloride which is corrosive, irritating and reactive; give exothermic reaction with water-reactive materials such as sodium; result in runaway polymerization reaction with methyl vinyl ether; and, in solution form react with zinc (galvanizing) to yield hydrogen gas which is explosive.

**Hazardous Decomposition Products:** None known. See Section 5 of MSDS for combustion products statement.

**Hazardous Polymerization:** May occur is combined with methyl vinyl ether.
SECTION 11: Toxicological Information

**Carcinogenicity:** The following table indicates whether or not each agency has listed each ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>LD (50) Oral (mg/kg)</th>
<th>LD (50) Dermal (g/kg)</th>
<th>LC. Inhalation (g/m³, 4 hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride</td>
<td>&gt;900 (rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>2600 (rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>3000 (rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological Information

This product is not expected to cause harm to animals, plants or fish.

SECTION 13: Disposal Considerations

**RCRA Hazard Class:** Non-hazardous waste.

SECTION 14: Transport Information

**DOT Shipping Description:** Not Regulated

**Hazard Class or Division:** Noncorrosive

**Secondary:** None

**Identification No.:** None

**Packing Group:** None

**Label(s) required (if not excepted):** None

**Special Provisions:** None

**Packing Exceptions:** None

**Non-Bulk Packaging:** None

**Bulk Packaging:** None

**EPA Hazardous Substance:** None

**RQ:** None

**Quantity Limitations: Passenger Aircraft:** None

**Cargo Aircraft:** None

**Marine Pollutants:** None

**Freight Description:** Non-Corrosive Liquid

**Hazardous Material Shipping Description:** None

**ERG Number:** None
SECTION 15 - Regulatory Information

TSCA Status: Each ingredient is on the Inventory.

NSR Status (Canada): Each ingredient is on the DSL.

SARA Title III: Hazard Categories:
Acute Health: Yes
Chronic Health: No
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

Reportable Ingredients:
Sec. 302/304: None
Sec. 313: None

California Proposition 66: No ingredient is listed.

Clean Air Act: No ingredient is listed

SECTION 16: Other Information

HMIS and NFPA Hazard Rating:

<table>
<thead>
<tr>
<th>Category</th>
<th>HMIS</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

NFPA Unusual Hazards: None.

HMIS Personal Protection: To be supplied by user depending upon use.