



**CALCIUM CHLORIDE SOLUTION**  
*DM35*

**Material Safety Data Sheet**



**A. GENERAL INFORMATION**

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| <b>TRADE NAME (COMMON NAME):</b><br>DM 35   |  | <b>CAS NUMBER:</b><br>10043-52-4 (anhydrous), 7647-14-5 (anhydrous), 7791-18-6 |   |
| <b>CHEMICAL NAME AND/OR SYNONYM:</b><br>LIQUID CALCIUM CHLORIDE, MAGNESIUM CHLORIDE, SODIUM CHLORIDE BRINE SOLUTION |  | <b>MOLECULE WEIGHT:</b><br>110.98, 95.218, 58.453                              |   |
| <b>FORMULA:</b><br>CaCl <sub>2</sub> , 27-30%, MgCl <sub>2</sub> , 4-7%, NaCl. Less than 2%,                        |  |  |   |
| <b>MANUFACTURER/ADDRESS:</b><br>TRILLIUM DISTRIBUTION INC<br>2351 GREENFIELD RD<br>COURTRIGHT, ONTARIO<br>N0N 1H0   |  |  |   |
| <b>CONTACT:</b><br>KEVIN POLLARD  | <b>PHONE NUMBER:</b><br>1-800-265-5619 | <b>LAST ISSUE DATE:</b><br>January 31, 2017                                    | <b>CURRENT ISSUE DATE:</b><br>November 15, 2017 |

**B. FIRST AID MEASURES**

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|--|---|
| <b>EYES:</b> Flush promptly with plenty of water, continuing for at least 15 minutes. Get medical attention.   | <b>EMERGENCY PHONE NUMBER:</b><br><b>(519)-796-8114</b> |
| <b>SKIN:</b> Wash with plenty of water.  |   |
| <b>INHALATION:</b> Remove to fresh air.  |   |
| <b>INGESTION:</b> If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat.<br><br>Get medical attention for irritation, ingestion, or discomfort from inhalation. |   |

**C. HAZARDS INFORMATION**

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| <b>INHALATION:</b><br>Vapors are unlikely due to physical properties. Mists may cause irritation to the upper respiratory tract. |
| <b>INGESTION:</b><br>If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.   |

**SKIN:**

In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes

### C. HAZARDS (Cont.)

**EYES:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

**PERMISSIBLE CONCENTRATION: AIR**

NA

**BIOLOGICAL:**

None

**UNUSUAL CHRONIC TOXICITY:**

None

**FLASH POINT:**

Not flammable

**AUTO IGNITION TEMPERATURE**

NA

**FLAMMABLE LIMITS IN AIR (% BY VOL.)**

LOWER – NA

UPPER - NA

OPEN CUP

CLOSED CUP

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

NA

### D. PRECAUTIONS/PROCEDURES

**FIRE EXTINGUISHING AGENTS RECOMMENDED:**

Use extinguishing media appropriate for surrounding fire.

**FIRE EXTINGUISHING AGENTS TO AVOID:**

None identified

**SPECIAL FIREFIGHTING PRECAUTIONS:**

None identified

**VENTILATION:**

None identified

**NORMAL HANDLING:**

Avoid contact with eyes, skin or clothing. Use good personal hygiene and housekeeping.

**STORAGE:**

Keep container tightly closed. Suitable for any general chemical storage area.

**SPILL OR LEAK:**

Wear suitable protective clothing. Carefully sweep up and remove.

**SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS:**

None

### E. PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:**

None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

**EYES AND FACE:**

Safety goggles

**HANDS, ARMS, AND BODY:**

Proper gloves are recommended

OTHER CLOTHING AND EQUIPMENT:

## F. PHYSICAL DATA

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|---|--|---|--|
| <b>MATERIAL IS AT NORMAL CONDITIONS:</b><br>LIQUID <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> GAS <input type="checkbox"/><br><input type="checkbox"/> Slurry |  | <b>APPEARANCE AND COLOR:</b><br>Clear to slightly turbid liquid   |  |
| <b>BOILING POINT:</b> 116 °C APPROX<br><b>MELTING POINT:</b> 7 °C APPROX  |  | <b>SPECIFIC GRAVITY:</b><br>(H <sub>2</sub> O = 1) 1.30 TO 1.37   |  |
| <b>SOLUBILITY IN WATER:</b><br>(% BY WEIGHT Very Soluble as CaCl <sub>2</sub> , 45%, NaCl, 24%, MgCl <sub>2</sub> , 35%   |  | <b>VAPOR DENSITY:</b><br>(AIR = 1) Not applicable   |  |
| <b>EVAPORATION RATE:</b><br>(Butyl acetate = 1) <input type="checkbox"/> (Ether = 1.0) <input type="checkbox"/><br>Not applicable   |  | <b>VAPOR PRESSURE:</b><br>(mm Hg @ 20°C) <input type="checkbox"/> (PSIG) <input type="checkbox"/><br>mm Hg @ 20 C 1.1 kPa 35% |  |
|   |  | <b>pH</b><br>slightly acidic  |  |
|   |  | <b>% VOLATILES BY VOLUME:</b><br>(AT 20°C)<br>Not applicable  |  |

## G. REACTIVITY DATA

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| <b>STABILITY:</b><br>UNSTABLE <input type="checkbox"/> STABLE <input checked="" type="checkbox"/>   | <b>CONDITIONS TO AVOID:</b><br>Not applicable  |
| <b>INCOMPATIBILITY (MATERIALS TO AVOID):</b><br>Reacts violently with bromine trifluoride (BrF <sub>3</sub> ), or a mixture of boron trioxide and calcium oxide (B <sub>2</sub> O <sub>3</sub> + CaO). Water-reactive materials, such as sodium; causes an exothermic reaction. Methyl vinyl ether; starts runaway polymerization. Zinc as in galvanized iron; yields hydrogen gas, which may explode under these conditions. |  |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b><br>Fumes of Chlorides (Cl-) are given off at temperatures above 1600 °C  |  |
| <b>HAZARDOUS POLYMERIZATION:</b><br>WILL NOT OCCUR <input checked="" type="checkbox"/><br>MAY OCCUR <input type="checkbox"/>  | <b>OTHER PRECAUTIONS:</b><br>Will undergo violent polymerization with methyl vinyl ether. The anhydrous, monohydrate, dihydrate and tetrahydrate forms of calcium chloride, when dissolved in water, produce considerable amounts of heat. |

## H. HAZARDOUS INGREDIENTS (MIXTURES ONLY)

| MATERIAL OR COMPONENT/C.A.S. # | WT% | HAZARD DATA |
|--------------------------------|-----|-------------|
|--------------------------------|-----|-------------|

|                |  |  |
|----------------|--|--|
| Not applicable |  |  |
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**I. ENVIRONMENTAL**

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| <b>DEGRADABILITY/AQUATIC TOXICITY:</b><br>Harmful to aquatic life at concentrations greater than 500 ppm. CaCl <sub>2</sub> , NaCl and MgCl <sub>2</sub><br>Does not bioaccumulate. TLm 96>100mg/1<br><br>Aquatic Toxicity: None identified   |  | <b>OCTANOL/WATER PARTITION COEFFICIENT</b><br>NA |
| <b>EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311)</b> YES <input type="checkbox"/> NO <input type="checkbox"/> IF SO, REPORTABLE QUANTITY:  |  |  |
| <b>WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS):</b><br><br>Treatment or disposal of waste generated by use of this product should be reviewed in terms of applicable federal, state and local laws and regulations. Users are advised to consult with appropriate regulatory agencies before discharge, treatment or disposal. |  |  |
| <b>RCRA STATUS OF UNUSED MATERIAL IF DISCARDED:</b><br>Not a "hazardous waste".   | <b>HAZARDOUS WASTE NUMBER: (IF APPLICABLE)</b><br>-- |  |

**J. REFERENCES**

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| <b>PERMISSIBLE CONCENTRATIONS REFERENCES:</b><br><br>None |   |
| <b>REGULATORY STANDARDS:</b><br><br>None                  | <b>DOT CLASSIFICATION:</b><br>Not regulated |
| <b>GENERAL:</b>   |   |

**K. ADDITIONAL INFORMATION**

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**THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION. CONSIDERATION AND INVESTIGATION.**

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