

# WINTERTHAW DI LIQUID DEICER

## Product Data Sheet

### General Description

WinterThaw® DI liquid deicer is calcium chloride ( $\text{CaCl}_2$ ) based. It is specially designed to optimize snow and ice melting. The product contains corrosion inhibiting additives to meet the stringent specifications set for deicing chemicals by the Pacific Northwest States (PNS) and other state departments of transportation (DOTs).

### Applications

WinterThaw DI liquid deicer is used in various deicing applications to retard cold weather hazards, including snow and ice control on roadways. The product meets or exceeds ASTM D98-87 and AASHTO M144-86 standards for deicing. It exceeds the PNS DOT requirement that deicers reduce corrosion by at least 70% versus sodium chloride.

The PNS test method is a modified version of the NACE Standard TM 01-69. Based on the information that 3% is the most corrosive concentration of sodium chloride, samples of the deicer materials are also evaluated at this concentration.

WinterThaw DI liquid deicer also meets other key elements of the PNS specifications, being free of precipitates over a wide temperature range and meeting the specification's limits on heavy metals and other impurities.

### Availability

WinterThaw DI liquid calcium chloride is available from select plant and terminal locations throughout North America. For the location nearest you, contact your TETRA sales or customer service representative.

### Safety and Handling

WinterThaw DI liquid deicer is a strong salt solution. Protective clothing, rubber gloves and eye protection are recommended. Rubber safety boots should also be worn in work areas, since calcium chloride can damage leather. This product should be handled in areas with proper ventilation. Before using this product, refer to the MSDS (available on the Company's website) for complete safety and handling guidelines. For proper disposal guidelines for calcium chloride wastes, consult the appropriate local regulatory authorities.

#### PHYSICAL PROPERTIES

|                                       |   |
|---------------------------------------|---|
| <b>Appearance</b>                     | Clear light yellow to dark amber liquid |
| <b>Odor</b>                           | Fresh                                   |
| <b>Crystallization Temperature</b>    | < -20°F (-29°C)                         |
| <b>Specific Gravity @ 68°F (20°C)</b> | 1.296                                   |
| <b>Bulk Density</b>                   | 10.80 lb/gal                            |

#### CHEMICAL PROPERTIES

|   |                  |
|---|------------------|
| <b>Chemical</b>   | $\text{CaCl}_2$  |
| <b>pH</b>   | 5.0 to 7.0       |
| <b>Impurities (on 100% <math>\text{CaCl}_2</math> basis)</b>  |                  |
| <b>Alkali Chlorides</b>                                       | < 0.2% by weight |
| <b>Magnesium (as <math>\text{MgCl}_2</math>)</b>              | < 0.2% by weight |
| <b>Other Impurities (not <math>\text{H}_2\text{O}</math>)</b> | < 1.0% by weight |

#### TETRA Chemicals

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