



MeltDown®

LIQUID De-icing/Anti-icing



PRODUCT DESCRIPTION

Magnesium chloride (MgCl₂) liquid De-icing/Anti-icing

USES OR APPLICATION

De-icing

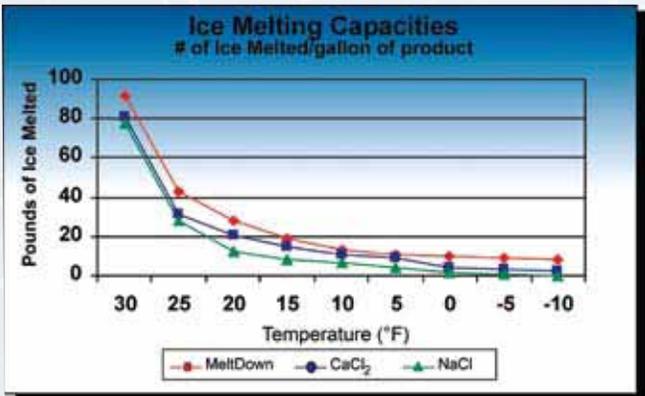
When applied according to recommended standards to black ice or frost conditions, **MeltDown®** provides increased performances versus most other liquid products. Repeated applications may be required to completely melt accumulated snow and ice pack depending on depth.

Anti-icing

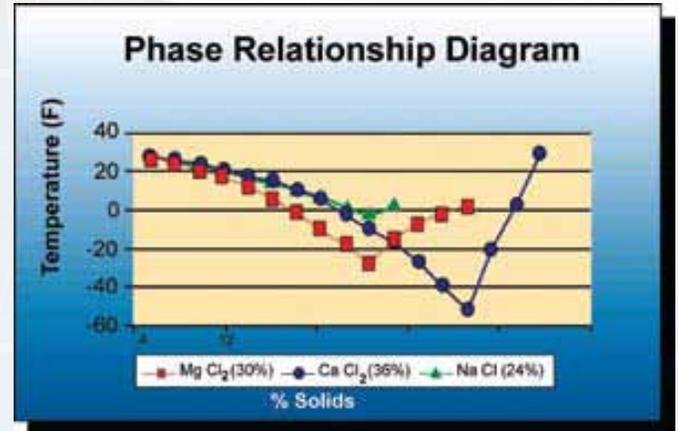
As an anti-icer applied prior to a storm, **MeltDown®** can help prevent snow and ice from bonding to the road surface. This provides higher service levels and reduces maintenance cost and patrol times. It also improves air quality by reducing or eliminating the need to use sand.

Melting Capacity

Melting capacity research (see chart below) conducted using SHRP (Strategic Highway Research Program) procedures show that **MeltDown®** consistently outperforms most other de-icing materials. Greater melting capacity means a longer lasting product, which allows for the use of less product, increased coverage and improved equipment utilization. (SHRP H2905.8)



TYPICAL PERFORMANCE PROPERTIES



MeltDown® has a low eutectic point that works effectively in a wide variety of temperature ranges. The flatter sloped curve in the phase diagram (see diagram above) illustrates an improved all-weather performance versus significantly steeper phase curves associated with calcium and sodium chloride brines. **MeltDown®** has a greater ability to dilute and hold water before refreezing.

FEATURES

- Melts ice/snow
- Lower re-freezing point.
- Eliminates use of sand.
- No blending necessary.

BENEFITS

- Safer roads
- Less stress for supervisor
- Fewer complaints
- Peace of mind
- Improved public relations
- Longer patrol cycle times
- Roads hold longer
- Less supervisor stress
- Reduces airborne particles to PM10 standards
- Decreases sand clean-up costs
- Low cost storage
- Predictable performance

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LIQUID De-icing/Anti-icing

CORROSION PERFORMANCE

The Pacific Northwest Snowfighters (PNS) coalition has adopted a test based on a modified version of NACE TM-01-69 to measure and rank de-icing chemicals in terms of relative corrosion toward ferrous metals. In this test, distilled water and salt are assigned relative corrosion rates of 0 and 100 respectively, and deicing chemicals are ranked according to these two standards. To be considered for use in the PNS states, a de-icer must score 30 or less (70% less corrosive than salt) on this scale. In this test **MeltDown®** was found to be less corrosive than Rock Salt and CaCl₂ (see chart below.)

Metal Corrosion Tendency

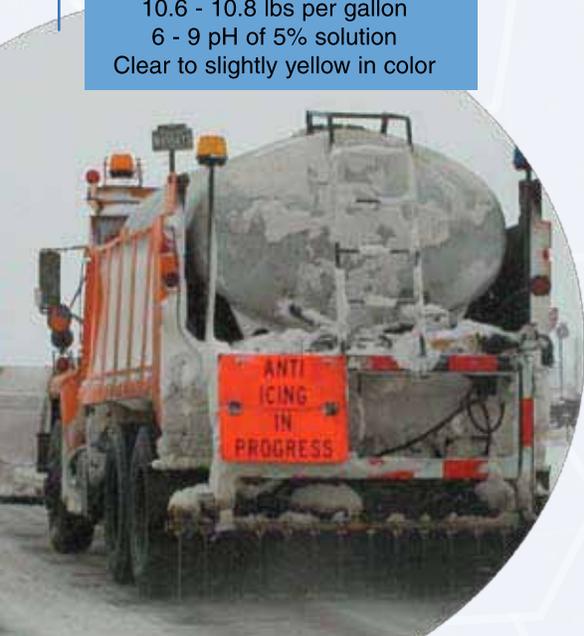
De-icing Fluid	PNS DOT Relative Corrosion Rate
Distilled Water	0.00
MeltDown (MgCl ₂) Inhibited	22.00
Calcium Chloride (CaCl ₂) 30%	86.00
Rock Salt (NaCl)	100.00
Calcium Chloride (CaCl ₂) 38%	121.00

ENVIRONMENTAL

MeltDown® is among the least harmful of common de-icers to vegetation and groundwater according to independent studies conducted by the U.S. Department of Agriculture. It is non-irritating and safer to handle and won't cause burning or stinging normally associated with alternative products. **MeltDown®** also meets or exceeds all the purity requirements as set by PNS. **MeltDown®** is safer for use around plants and animals as well as being less harmful to road surfaces and metals when used as recommended. **MeltDown®** is free of toxic metals and substances, and is also used as a dust control agent and fertilizer for crops such as turf and small grains.

TYPICAL ANALYSIS

Magnesium Chloride 29% - 31%
10.6 - 10.8 lbs per gallon
6 - 9 pH of 5% solution
Clear to slightly yellow in color



TESTIMONIAL

" I have had absolutely no damage to turf, concrete, or asphalt since changing to this product, and I never hear complaints from housekeeping about track in the material into the building. The application is simple."

Ted Williams,
Loveland Good Samaritan



Contact **Desert Mountain Corporation**
for a complete evaluation of your needs.



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