CRYOTECH CMA®
Solid Commercial Deicer

BENEFITS
• Less corrosive than tap water
• Safest deicer for concrete, chloride free
• Can be used on new concrete (dependent on quality), cured for at least 30 days
• Excellent inhibitor, reducing chloride corrosion
• Readily biodegradable, low toxicity
• Safer for pets than sodium chloride
• Requires fewer applications than other common deicers
• Can be used straight or mixed with salt, with sand, or as a liquid
• Spherical pellet is less dusty than granular deicers
• Complimentary customer training upon request

PERFORMANCE
• Works best above 20°F (-7°C)
• Has long lasting effect, better than chloride salts or urea
• Breaks/inhibits bond between snow/ice and pavement making snow/ice easier to remove
• Creates some brine and a dry, oatmeal-like consistency with snow for improved traction

ENVIRONMENT
• Biodegrades to carbon dioxide and water
• Safe for vegetation
• Calcium and magnesium increase soil permeability and are soil amendments
• Low toxicity to aquatic species
• Poor mobility in soil, unlikely to reach groundwater
• Safe for groundwater concerns
• Does not contain nitrogen or chlorides

APPLICATION
• Apply early in the storm to prevent snow/ice bonding
• First application:
  Commercial = 15-20 lbs/1000ft² (75-100 g/m²)
  Highway = 300-400 lbs/lane mile (20-40 g/m²)
• Allow time for CMA to penetrate and loosen the snow/ice pack before removing snow/ice
• Re-apply when new snow/ice accumulation shows first tendency to bond

HANDLING
• May be stored indefinitely if kept dry
• Avoid excess moisture which may cause caking
• Excessive handling may cause dustiness

See Reverse Side For Product Specifications
Test Data Available Upon Request

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**COMPOSITION**

<table>
<thead>
<tr>
<th>Composition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Magnesium Acetate (CMA)</td>
<td>3.7 Ca to Mg molar ratio</td>
</tr>
<tr>
<td>Hydrated CMA + other acetates</td>
<td>96% minimum</td>
</tr>
<tr>
<td>Inert Material</td>
<td>4% maximum</td>
</tr>
</tbody>
</table>

**APPEARANCE**

- White to off-white spherical pellet

**BULK DENSITY**

- 40 lbs/ft³ to 44 lbs/ft³
  - (0.65 g/cm³ to 0.79 g/cm³)

**PARTICLE SIZE**

<table>
<thead>
<tr>
<th>Sieve</th>
<th>Particle Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>90</td>
</tr>
<tr>
<td>14</td>
<td>10</td>
</tr>
</tbody>
</table>

**RESIDUAL BASE**

- Maximum of 0.4 meq base/g

**TYPICAL pH**

- 8 to 10 in a 10% solution

**PACKAGING**

- 55 lbs (25 kg) poly bags - 40 bag minimum
- 2205 lbs (1000 kg) Super Sacks - 1 super sack minimum
- Bulk - 20 metric ton minimum

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**Spalling Effect of Deicers on Concrete**

<table>
<thead>
<tr>
<th>Deicer</th>
<th>Concrete Surface Weight Loss (mg/mm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>6</td>
</tr>
<tr>
<td>Calcium Chloride</td>
<td>5</td>
</tr>
<tr>
<td>Urea</td>
<td>4</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>3</td>
</tr>
<tr>
<td>CMA</td>
<td>2</td>
</tr>
<tr>
<td>Water</td>
<td>1</td>
</tr>
</tbody>
</table>

**3% Deicer Solutions**

Source: Department of Transportation, UK 1993

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**TO ORDER OR FOR PRODUCT INFORMATION CONTACT:**

Ph: 954-781-9200 or Fax: 954-781-9201
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