

# CRYOTECH

## CMA<sup>®</sup>

### *Solid Commercial Deicer*

#### Why CMA?

Cryotech CMA (calcium magnesium acetate) is a non-corrosive, biodegradable, environmentally safe replacement for chloride deicers and urea. It exhibits superior toxicological and corrosion properties. When used according to guidelines, CMA is an effective deicer that is safe for metals, concrete, groundwater, wildlife and vegetation.

#### BENEFITS

- Less corrosive than tap water
- Safest deicer for concrete
- Eliminates chloride corrosion, chloride free
- Can be used on new concrete (dependent on quality), cured for at least 30 days
- Safer for pets than sodium chloride
- Manufactured as a round pellet to be less dusty than irregularly shaped deicers
- Complimentary customer training upon request

#### PERFORMANCE

- Patented Unipel technology ensures uniform size, shape, and composition of each pellet
- Works best above 20°F (-7°C)
- Contains pure materials for long lasting effects, better than chloride salts
- Breaks/inhibits bond between snow/ice and pavement making snow/ice easier to remove
- Requires fewer applications than other common deicers
- Creates some brine and a dry, oatmeal-like consistency with snow for improved traction
- Applies easily, can be used straight, mixed with salt or sand, and as a liquid

#### ENVIRONMENT

- Safe for vegetation
- Low toxicity to aquatic species
- Increases soil permeability, calcium and magnesium are soil amendments
- Acetate readily biodegrades to carbon dioxide water
- Minimal mobility in soil, unlikely to reach groundwater
- Does not contain nitrogen or chlorides

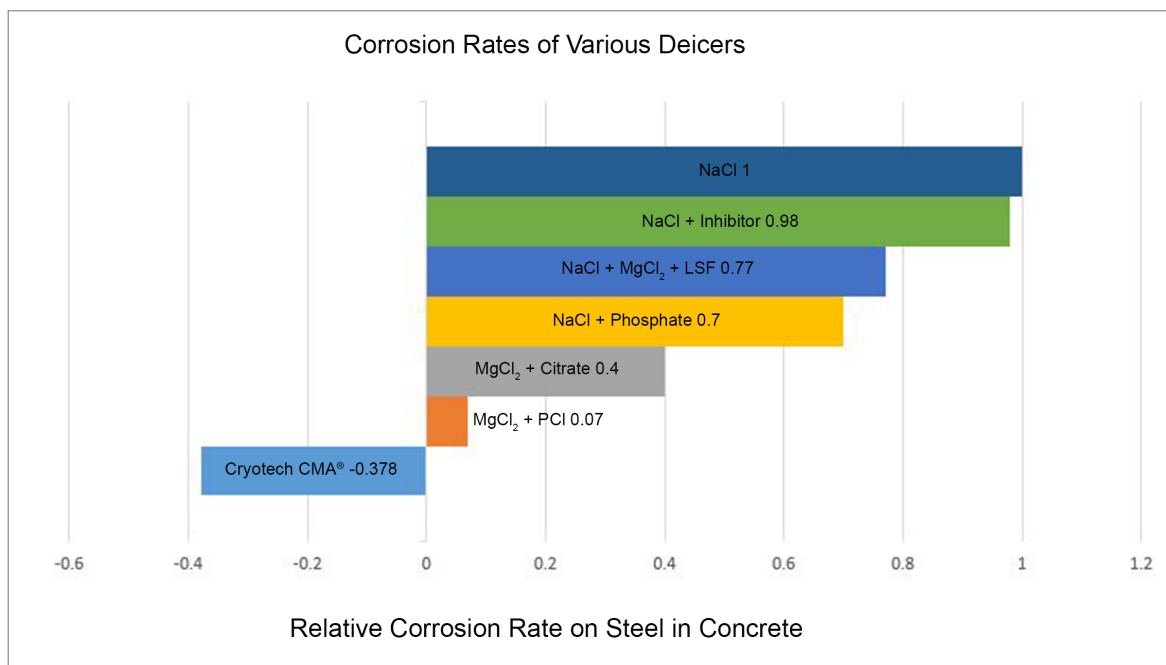
#### APPLICATION

- Apply early in the storm to prevent snow/ice bonding
- First application: ~10 lbs/1000 ft<sup>2</sup> (50 g/m<sup>2</sup>)
- 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



## CRYOTECH CMA® PRODUCT SPECIFICATIONS

COMPOSITION		APPEARANCE	BULK DENSITY	PARTICLE SIZE	
Calcium Magnesium Acetate (CMA) 3:7 Ca to Mg molar ratio Hydrated CMA + other acetates - 96% minimum Inert Material - 4% maximum		White to off-white spherical pellet	Approximately 44 lbs/ft <sup>3</sup> (0.70 g/cm <sup>3</sup> )	Sieve:  Tyler 4 Tyler 14	Particle Passing: 90% (wt) min 10% (wt) max
TYPICAL pH	INSOLUBLES	PACKAGING		HANDLING	
8 to 10 in a 10% solution	4% (wt) maximum	<ul style="list-style-type: none"> <li>55 lbs (25 kg) poly bags - 40 bag minimum</li> <li>2205 lbs (1000 kg) Super Sacks - 1 super sack minimum</li> <li>Bulk - 20 metric ton minimum</li> </ul>		<ul style="list-style-type: none"> <li>Store in original container</li> <li>Avoid excess moisture which may cause caking</li> <li>Preserve pellet integrity by not overhandling</li> </ul>	



### TO ORDER OR FOR PRODUCT INFORMATION CONTACT:

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