

## DfE Designation. Environmentally Friendly.

A versatile anti-icing, de-icing and pre-wetting agent!



*Magic-O*<sup>TM</sup> liquid concentrate is a proprietary blend of magnesium chloride and agricultural by-products that have been EPA recognized as safer for the environment.

*Magic-O*<sup>TM</sup> is an economical and environmentally effective way to keep your roads safe! *Magic-O*<sup>TM</sup> allows for lower salt application rates and has less impact on the environment which leads to dramatic cost savings. *Magic-O*<sup>TM</sup> meets the stringent requirements of the PNS (Pacific Northwest Snowfighters) for corrosion, toxicity and performance.

(For more information visit: [www.wsdot.wa.gov/partners/pns/re-sources.htm](http://www.wsdot.wa.gov/partners/pns/re-sources.htm))

### Product Overview

#### Safer Roads

- Improves winter road conditions and service levels
- Salt pretreated or prewetted with *Magic-O*<sup>TM</sup> works at lower temperatures than traditional dry salt
- *Magic-O*<sup>TM</sup> treated salt stays on the road better thereby reducing bounce and scatter
- *Magic-O*<sup>TM</sup> can safely be applied prior to a storm event (anti-icing) thus preventing a bond from forming between the pavement and the snow accumulation
- *Magic-O*<sup>TM</sup> has a residual effect that is far superior to other de-icers. This fact is attributed to the high viscosity of *Magic-O*<sup>TM</sup> reducing chloride brine runoff into the road shoulders
- *Magic-O*<sup>TM</sup> is ideal for treating black ice and clear weather frost on road and bridge surfaces
- *Magic-O*<sup>TM</sup> can also be used as a concentrate with salt brines to reduce corrosion, lower freeze points and increase working time
- Available in 55 gallon drums, 265 gallon totes and bulk tank trucks

**READY WHEN NATURE STRIKES. GUARANTEED.**

## Typical Corrosion Performance

Deicing Fluid	PNSDOT Relative Corrosion Rate
Magic-0™	7.87
Distilled Water	0
Rock Salt NaCl <sub>2</sub>	100
Calcium Chloride (CaCl <sub>2</sub> )	121
Magnesium Chloride (MgCl <sub>2</sub> )	80

## Reduce Costs

- Saves Time, Labor, Fuel and Materials
- Lower working temperatures coupled with better adherence and residual effect results in a 20 - 40 percent salt savings
- Eliminates the need for sand: its cleanup and disposal
- Dramatically reduces the corrosivity of salt and its effect on equipment, chains, bearings, frames, brakes and electrical components

## Typical Analysis

Solids	40-42%
MgCl <sub>2</sub>	16%
Freeze Point	-36C/-33F
Specific Gravity	1.289
PH	5.3
Solubility	99%
Appearance	Brown liquid
Odor	Sweet smelling

## Environmental Benefits

- Safer for use around animals and humans. Does not affect skin, leather, clothing or carpets
- Reduces the levels of sodium and chloride ion exposure to wells, vegetation and surface / groundwater
- Eliminates the need for sand, a major source of phosphorus and PM-10 contaminants
- Infrastructure Protection – *Magic-0™* protects roads and infrastructure by dramatically reducing corrosion rates



This product is (or includes) a patented product of Sears Ecological Applications Co., LLC and is manufactured under one or more U.S. Patents, including U.S. Patent No. 6,299,793 and related patents.

For more information on *Magic-0™* or our comprehensive solutions-based product line, please contact *innovative surface solutions* at **1-800-257-5808** or visit [www.innovativecompany.com](http://www.innovativecompany.com).

## How To Order

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SURFACE SOLUTIONS 

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