

DfE Designation. Environmentally Friendly.

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



Proud Recipients of



Recognized for Safer Chemistry
www.epa.gov/dfe

Magic Minus Zero® liquid concentrate is a proprietary blend of magnesium chloride and agricultural by-products that have been EPA recognized as safer for the environment and authorized to carry the DfE emblem.

Magic Minus Zero® is an economical and environmentally effective way to keep your roads safe! *Magic Minus Zero®* allows for lower salt application rates and has less impact on the environment which leads to dramatic cost savings. *Magic Minus Zero®* 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/resources.htm)

Product Overview

Safer Roads

- Improves winter road conditions and service levels
- Salt pretreated or prewetted with *Magic Minus Zero®* works at lower temperatures than traditional dry salt
- *Magic Minus Zero®* treated salt stays on the road better thereby reducing bounce and scatter
- *Magic Minus Zero®* 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 Minus Zero®* has a residual effect that is far superior to other de-icers. This fact is attributed to the high viscosity of *Magic Minus Zero®* reducing chloride brine runoff into the road shoulders
- *Magic Minus Zero®* is ideal for treating black ice and clear weather frost on road and bridge surfaces
- *Magic Minus Zero®* can also be used as a concentrate with salt brines to reduce corrosion, lower freeze points and increase working time
- Available in 55 gal (205L) drums, 265 gal (1000L) totes and bulk tank trucks

READY WHEN NATURE STRIKES. GUARANTEED.

Typical Corrosion Performance

Deicing Fluid	PNSDOT Relative Corrosion Rate
Magic Minus Zero®	22.4
Distilled Water	0
Rock Salt NaCl_2	100
Calcium Chloride (CaCl_2)	121
Magnesium Chloride (MgCl_2)	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	37.4 - 45.4%
MgCl_2	22.4 MPY
Freeze Point	-49°F / -45°C
Specific Gravity	1.302
PH	4.70
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 contaminates
- Infrastructure Protection – *Magic Minus Zero®* 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.

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 78 Orchard Road, Ajax, Ontario, Canada L1S 6L1 • 1-800-387-5777 • www.innovativecompany.com
 454 River Road, Glenmont, NY 12077 • 1-800-257-5808 • orders@innovativecompany.com