



Technical Information

CaCl₂ Enhanced Salt Brine

DESCRIPTION:

CaCl₂ Enhanced Salt Brine is an aqueous solution whose active components are sodium chloride, magnesium chloride and calcium chloride. It provides excellent anti-icing and pre-wetting capabilities.

COMPLIANCE:

CaCl₂ Enhanced Salt Brine is not approved for human or animal consumption. It is intended for use only as a chemical deicer or prewetting agent for granular deicers on roadways.

ADDITIVES:

CaCl₂ Enhanced Salt Brine is an aqueous solution of sodium chloride, calcium chloride, and magnesium chloride.

APPLICATIONS:

CaCl₂ Enhanced Salt Brine is intended for use as an ice and snow removal agent on highways, bridges, and other roadways. It may directly applied to road surfaces as an anti-icer and can be used as a prewetting agent for granular deicers, where it acts to reduce the tendency of these products being swept off the road before deicing commences.

CAUTION: Exercise extreme care when using this product for anti-icing. Anti-icing, the practice of applying chemical deicers in advance of precipitation, requires skill and specialized equipment. Liquid deicing products can cause slippery conditions if over-applied or misused. A number of conditions can affect this usage, including pavement type and condition, temperature, humidity, and application rate and timing. It is essential that extensive tests and evaluation be conducted to establish best practices for each condition or set of conditions that may be encountered.

PACKAGING AND SHIPPING:

CaCl₂ Enhanced Salt Brine is available in bulk. Bulk quantities are shipped by truck.

STORAGE AND HANDLING PRECAUTIONS:

CaCl₂ Enhanced Salt Brine requires normal precautionary measures for the safe handling of liquids, i.e., goggles and flushing of skin contact areas with fresh water.

CHEMICAL ANALYSIS:

Component	Units	Minimum	Average
Calcium Chloride*	%	8.0	10.05 +/- 2.01
Sodium Chloride*	%	13.4	15.40 +/- 2.00
Magnesium Chloride*	%	1.8	2.15 +/- 0.40
Calcium Sulfate Dihydrate	%	0.5	1.3
Total Chloride Salts*	%	27.1	27.60 +/- 0.49
Water*	%	71.9	72.4

*Concentrations given on a brine basis and not including calcium sulfate dehydrate insolubles.

PHYSICAL PROPERTIES:

Component	Units	Typical	Specification
Specific Gravity (at 20 °C)	SGU	1.22	
pH		6.0	

PRODUCT BENEFITS:

Applied as an anti-icer before a storm, the liquid inhibits the bond between snow/ice and the pavement, facilitating snow removal. Applied as a pre-wetting agent to rock salt it helps inhibit bounce and scatter of the salt from the road surface and may enhance ice melting properties at temperatures colder than 15 °F.

TECHNICAL ASSISTANCE:

Technical representatives are available for assistance in applications development, troubleshooting and help in resolving customer service issues.

METHODS OF ANALYSIS:

Methods of analysis are taken from the ASTM designation E 534-98 and Cargill.

PRODUCING LOCATION: AKRON, OH

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CARGILL DEICING TECHNOLOGY

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