



Product Specifications for ICE B'GONE® II

(1) Magnesium Chloride/Molasses 80/20

1.1 Heavy Metal Analyses

		<u>PNS ppm maximum</u>
Arsenic	Less than 2 ppm	5.00
Barium	Less than 1 ppm	10.00
Cadmium	Less than 0.2 ppm	0.20
Chromium	Less than 0.5 ppm	0.50
Copper	Less than 0.1 ppm	0.20
Lead	Less than 1.0 ppm	1.00
Mercury	Less than 0.01 ppm	0.05
Selenium	Less than 1.0 ppm	5.00
Zinc	Less than 1.0 ppm	10.00
Phosphorus	0.08 ppm	25.00
Cyanide	Less than 0.15 ppm	0.20

1.2 Analysis

Magnesium chloride	23.6 % by weight
Sodium chloride	1805 ppm
Potassium chloride	2092 ppm
Density	1.30 grams per ml
Weight per gallon	10.88 lbs
pH	5.2
Freezing Point	-47.7°C / -53.8° F

1.3 Corrosion Rate

The PNS method of determining corrosivity employs a modified National Association of Corrosion Engineers test method (TM – 01 – 69) where the steel corrosion rates in the de-icer is compared with that of a rock salt solution. The PNS requirement is that the deicer should have a corrosion rate of 30% or less than that of the rock salt solution. This composition more than complies with this requirement.

1.4 Ice Melting Characteristics

LBS ICE MELTED PER GALLON OF DEICER

Temperature °F	Magnesium Chloride/Molasses 80/20	24% Rock salt	32% Calcium Chloride
30	112	31.8	34.6
25	55.7	18.0	25.7
20	32.8	11.2	19.0
15	19.2	7.2	13.9
10	11.1	4.3	10.2
5	6.3	2.6	7.4
0	3.5	1.6	5.3
-5	2.0	0.9	3.8
-10	1.5	0.6	2.7
-15	0.8	0.3	1.9
-20	0.4	0.2	1.3
-25	0.2	0.1	0.9



...is safe to use around animals and humans. It does not affect skin, leather, clothing, or carpets. No special handling equipment is required .

...is water soluble and biodegradable.

...reduces the levels of sodium and chloride ion exposure to wells, vegetation, surface water.

...eliminates the need for sand, a major source of phosphorus and PM-10 contamination.

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