

# Product Data Sheet



9900 West 109<sup>th</sup> Street – Suite 600  
Overland Park, Kansas 66210  
Phone 800-755-7258 Fax 800-359-7258

## FREEZGARD® CRYSTALS

### PRODUCTION LOCATION

Ogden, Utah

### PRODUCT DESCRIPTION

Freezgard® uses the superior deicing characteristic of magnesium chloride with reduced environmental impact.

### TYPICAL SCREEN ANALYSIS

Retained and Cumulative

U.S.S Mesh	Tyler Mesh	Open. (In.)	Ret. %	Range %	Cum. %	Range %
4	4	0.187	25.4	0 – 58	25.4	0 – 58
6	6	0.132	53.3	41 – 65	78.7	57 – 100
8	8	0.093	18.3	0 – 37	97.0	94 – 100
10	9	0.079	3.0	0 – 6	99.9	99 – 100
16	14	0.064	0.1	0 – 1	99.9	99 – 100
Pan	Pan		0.0	0 – 1		

Average Particle Size 0.162 inches (4.9 mesh)

Chemical Analysis			Typical
Magnesium Chloride Hexahydrate	MgCl <sub>2</sub> •6H <sub>2</sub> O	(%)	100

### PHYSICAL PROPERTIES

Bulk Density 50 lbs/cubic foot  
No Admixtures

### METHOD OF ANALYSIS

All testing is from North American Salt's internal quality control procedures, which are available upon request.

Product And Pallet Specifications	50 lbs. Bag	One Ton Tote Bag
Pallet Layout (Tiers X Units)	5 x 10	1
Units per Pallet	50	1
Weight per Pallet (lb.)	2525	2080
Height per Pallet (in.)	31	40
Cubic Feet per Pallet	34.4	44.4
Pallet Size (in.)	48 x 40	48 x 40
Pallet Weight (lb.)	60	60
Product Code	53050	53000
UPC Code	0-41482- 53550-5	0-41482- 53000-5

### MAKING A 30% FREEZGARD SOLUTION

To make a 30% FreezGard® Liquid solution from FreezGard® Crystals simply follow the chart below to determine the quantity of solution desired. A simple ratio to remember is to take 13.9 pounds of FreezGard® Crystals for every gallon of water. This will yield approximately 2 gallons of a 30% FreezGard® liquid which will weigh 10.8 pounds per gallon.

Solution Needed (Gallons)	FreezGard® Crystals (lbs)	Water (Gallons)
55	371	27
100	675	49
500	3375	243
1000	6750	486
1500	10125	728
2000	13500	971
2500	16875	1214
3000	20250	1457
3500	23675	1700
4000	27000	1942
4500	30375	2185
5000	33750	2428

### APPLICATION RATE

For maximum effectiveness in melting applications FreezGard Crystals® should be added dry at a rate of 0.10 to 0.20 pounds per square yard application area. FreezGard® 30% liquid should be added at a rate one to two gallons per 100 square yards application area. The amount of FreezGard® to add will vary from location to location upon traffic, weather, soil type, and desired reduction.