



Technical Information

# Diamond Crystal® Sun Gems®

### DESCRIPTION:

Diamond Crystal® Sun Gems® is a coarse screened, white crystalline sodium chloride produced by the solar evaporation of Caribbean seawater. The salt crystals are refined by washing with clean saturated brine to remove surface impurities, drained of excess moisture, dried, and screened to size.

### COMPLIANCE:

Diamond Crystal® Sun Gems® are acceptable for regeneration of water softener ion exchange resins (P1) by NSF Registration Guideline for Proprietary Substances and Nonfood Compounds (2004). The NSF Nonfood Registration Program is a continuation of the USDA product approval listing, which is based on meeting regulatory requirements for appropriate use, ingredients, and labeling. This product also meets the AWWA Standard for Sodium Chloride B200. This product is not recommended for direct addition to food products.

### ADDITIVES:

Diamond Crystal® Sun Gems® contains no anticaking or free-flowing additives or conditioners.

### APPLICATIONS:

Diamond Crystal® Sun Gems® is primarily intended for use in regenerating water softener ion-exchange resin in both household and commercial water softeners, and can be used effectively in most water softening units. Under normal use, the specific size and density of this product eliminates mushing, bridging, and channeling to provide excellent percolation and brine formation.

### PACKAGING AND STORAGE:

Diamond Crystal® Sun Gems® is available in bulk only.

### METHODS OF ANALYSIS:

Methods of analysis are taken from ASTM E 534-98, AWWA B200-03, and Cargill

### OTHER PROPERTIES:

Diamond Crystal® Sun Gems® contains no known allergens, and exhibits virtually no microbiological activity.

### CHEMICAL ANALYSIS:

Component	Units	Typical	Specification
Sodium Chloride (dry) <sup>1</sup>	%	99.70	99.50 min.
Calcium & Magnesium (as Ca)	%	0.05	-
Sulfate (as SO <sub>4</sub> )	%	0.14	-
Surface Moisture <sup>2</sup>	%	0.5	0.2 max.
Water Insolubles	%	0.02	0.15 max.

<sup>1</sup>By difference of impurities.  
<sup>2</sup>110°C for 2 hours.

### SIEVE ANALYSIS:

U.S.S. Mesh	Opening Inches	Opening Microns	Typical	Specification
5/8"	0.625	15875	28	40 max.
1/2"	0.500	12700	27	-
3/8"	0.375	9510	32	-
1/4"	0.250	6350	9	-
Pan	-	-	4	10 max.

Note: Sieve analysis is reported as percent retained.

### BULK DENSITY:

Parameter	Typical	Specification
Pounds per Cubic Foot	82	79 - 85
Grams per Liter	1300	1265 - 1360

Note: Bulk Density is reported as loose (uncompacted).

PRODUCING LOCATION: PORT NEWARK, NJ, BALTIMORE, MD

No. 6423 Revised May 2008

### CARGILL SALT

P.O. Box 5621  
Minneapolis, MN  
55440  
1-888 385-7258

NOTICE: All of the above statements, recommendations, suggestions and data are based on our laboratory results, and we believe same to be reliable. Nevertheless, with the exception of data showing an express guaranty (such as in the case of products specifically designed for use as nutrient supplements), all such statements, recommendations, suggestions and data hereinabove presented are made without guaranty, warranty or responsibility of any kind on our part.