



## Technical Information

# *Diamond Crystal® Pellets with Softener Care Additive*

### DESCRIPTION:

**Diamond Crystal® Pellets with Softener Care Additive** are compacted, pillow-shaped briquettes of sodium chloride which has been manufactured under stringent process control procedures by vacuum evaporation of raw, untreated brine. The salt is obtained from underground deposits by deep well solution mining.

### COMPLIANCE:

**Diamond Crystal® Pellets with Softener Care Additive** are approved for direct use in regenerating water softener ion-exchange resins by both the Food & Drug Administration and the U.S. Department of Agriculture, and meets the AWWA Standard for Sodium Chloride B200.

### ADDITIVES:

**Diamond Crystal® Pellets with Softener Care Additive** contain Sodium Hexametaphosphate (SHMP), which improves the product's resistance to mushing and bridging (U.S. Patent No. 4,992,208). Sodium Hexametaphosphate is GRAS (generally recognized as safe) by the Food & Drug Administration.

### APPLICATIONS:

**Diamond Crystal® Pellets with Softener Care Additive** are intended for use in regenerating ion-exchange resin in both household and commercial water softeners, and can be utilized effectively in all types of water softening units. Under normal use, the specific size, shape, and density of this product resists mushing, bridging and channeling to provide excellent percolation and brine formation. The product is virtually 100% water soluble. This eliminates messy tank cleaning, providing efficient operation of the water softening unit.

### PACKAGING AND STORAGE:

**Diamond Crystal® Pellets with Softener Care Additive** are available only in 40lb., 50lb. and 80lb. polyethylene bags for added moisture protection. To improve caking resistance, the product should be stored in a dry, covered area at humidity below 75%.

### METHODS OF ANALYSIS:

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

### OTHER PROPERTIES:

**Diamond Crystal® Pellets with Softener Care Additive** contain no known allergens, and exhibit virtually no microbiological activity.

### CHEMICAL ANALYSIS:

| Component                          | Units | Typical | Specification |
|------------------------------------|-------|---------|---------------|
| Sodium Chloride (dry) <sup>1</sup> | %     | 99.86   | 99.80 min.    |
| Calcium & Magnesium (as Ca)        | %     | 0.04    | -             |
| Sulfate (as SO <sub>4</sub> )      | %     | 0.06    | -             |
| Surface Moisture <sup>2</sup>      | %     | 0.03    | 0.1 max.      |
| Copper (as Cu)                     | ppm   | -       | 0.5 max.      |
| Iron (as free Fe)                  | ppm   | -       | 2.0 max.      |
| Heavy Metals (as Pb)               | ppm   | <1.0    | 2.0 max.      |
| Water Insolubles                   | ppm   | 5       | 100 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 |
|-------------|----------------|-----------------|---------|---------------|
| ¼           | 0.250          | 6350            | 97      | 95 min.       |
| Pan         | -              | -               | 3       | 5 max.        |

Note: Sieve analysis is reported as percent retained.

**PRODUCING LOCATION: WATKINS GLEN, NY**

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### CARGILL SALT

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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.