



8820 Old Hwy 99 SE, Tumwater, Washington 98501, USA  
360-943-6063 800-562-6184 FAX 360-352-4813 www.ch2o.com



## 210 LIQUID RESIN CLEANER

### APPLICATION

Natural water contains dissolved mineral salts such as calcium and magnesium bicarbonates. These are the hardness minerals that water softeners remove. Water supplies may also contain iron and/or manganese salts. Water softeners, which employ polystyrene resin beads, exchange sodium or potassium with mineral salts until the beads are fully loaded and the softener capacity for exchange is exhausted.

After the softener exchange capacity is exhausted, calcium and magnesium may be washed from the resin beads with salt brine. Unfortunately, iron and manganese are not removed by ordinary salt brine. If the water being treated contains iron and/or manganese, preventive measures must be taken to keep the softener from becoming permanently loaded. Iron and manganese may be chemically cleaned from softener resin beads using CH<sub>2</sub>O's product 210 which is designed for this purpose.

### PREVENTIVE MAINTENANCE

Iron fouling may be reduced by regular use of product 210. It is added to the brine-stem well at a rate of 1 quart per cubic foot of cation resin. Subsequent manual initiation of regeneration cycle will introduce the cleaning solution to the resin bed. Frequency of the use of product 210 is dependent upon the total iron content of raw water. Please refer to dosage chart.

### RESTORING FOULED RESIN

Follow the maintenance procedure using 2 quarts of product 210 per cubic foot of resin. Follow this addition with two regeneration cycles, one right after the other.

### DOSAGE CHART

Iron Content of Water	Frequency of Use:
0 to 2 ppm	1 or 2 per year
2 to 5 ppm	4 to 6 months
5 to 10 ppm	2 to 4 months

### SAFETY & HANDLING PROCEDURE

This product is not NSF 60 registered for use in potable water systems.

This product is a mildly acid liquid. It can be safely handled using the standard precautionary procedures associated with industrial chemicals of this type. Avoid prolonged or repeated contact with product.

### PHYSICAL PROPERTIES

pH of 1% Solution	3.0-5.0
Pounds per Gallon	10.5-11.0
Physical Appearance	Clear Liquid
Odor	Strong

### Seller Warranty

CH<sub>2</sub>O brand test reagent refills are available through your sales representative at no charge. Customers are required to confirm product compatibility via a control test for their specific application. CH<sub>2</sub>O recommends that you perform regular/daily testing to control chemical levels and cycles of concentration within established limits. Additional tests may be performed at your request. Test reports reflect conditions at the point when the analysis was performed. Results will change over time and with varying operating conditions.

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the product data sheet. Buyer is responsible to ensure that products and product dosages are appropriate for Buyer's particular application. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort. Jurisdiction for any issues arising from or relating to this product shall be in the courts of the State of Washington and the venue shall be Thurston County. Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the rules and procedures as stated in RCW 7.06 and shall be binding upon both parties without right to appeal, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

Applies to all products sold by CH<sub>2</sub>O, Inc., and is hereby communicated to all of its customers as a condition of sale. Use of CH<sub>2</sub>O products is subject to the Standard Terms and Conditions as listed on CH<sub>2</sub>O, Inc.'s website at: [www.ch2o.com](http://www.ch2o.com).

