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## AQUA CLEAN 100 ANTISCALANT / DISPERSANT / ANTIFOULANT FOR REVERSE OSMOSIS SYSTEMS

### APPLICATION

**AQUA CLEAN 100** is a highly effective antiscalant, specially formulated for reverse osmosis feedwaters with the highest levels of metal oxides, silica, and scale forming minerals. It is effective over a wide range of concentrations, and does not function as a flocculant. Use of this product is recommended for reducing the operating and capital costs of reverse osmosis (RO), nanofiltration (NF) and ultrafiltration (UF) systems. **AQUA CLEAN 100** can also serve as a substitute for pretreatment with ion exchange beds.

### SAFETY & HANDLING PROCEDURE

This product is an acidic material. It is necessary to wear protective gloves and safety goggles when handling the product concentrate. Safe handling procedure associated with industrial chemicals of this type are recommended.

### FEEDING TECHNIQUE

This product may be diluted in a separate chemical mixing tank, or it may be pumped neat from the drum or tote. **AQUA CLEAN 100** may be added directly to the R.O. feedwater by way of a metering pump. If the water flow is variable, flow controllers may be utilized to "pace" the chemical injection to the flow of the feedwater. Consult your CH<sub>2</sub>O representative for additional details.

### CONTROL

Maintain a residual of 1 to 15 parts per million of product (neat) in the feed water at all times. By monitoring the concentrate stream and trend charts, optimal dosage can be achieved for the control of scales including that from calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate, iron hydroxide, aluminum hydroxide and silica.

### DOSAGE

Contact your CH<sub>2</sub>O representative for assistance in selecting metering equipment. The product should be injected into the feedstream prior to the static mixer and cartridge filter. The effective pH range is between 5 and 10.

Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. In addition to monitoring and maintaining treatment levels, it is the customer's responsibility to ensure the product is fit for its intended application.

### PHYSICAL PROPERTIES

pH of 1% Solution.....4-7  
Pounds per Gallon..... 8.8-9.3  
Physical Appearance..... Clear, Colorless Liquid  
Odor ..... None  
Flash Point ..... NA

### 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).



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