



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



# 831 POTABLE WATER TREATMENT

### APPLICATION

Dissolved oxygen is often present in water supplies, especially if the source is a river or lake. Pneumatic pressure storage tanks with air to water contact also cause oxygen to be present in water distribution systems. Such waters have the potential to cause corrosion to distribution and supply piping. Corrosion by-products reduce the esthetic value of domestic water. The flow of supply water may be reduced by leaky corroded piping.

Corrosion and deposition of corrosion by-products in water distribution and supply piping may be prevented. Water pH and other characteristics may be adjusted by materials that are generally recognized as safe (GRAS). When potable water is properly balanced, corrosion rates can be reduced.

Product **831** is a water treatment formulation, which is certified to comply with NSF/ANSI Standard 60 for use in potable water applications at a maximum dosage of 42 mg/L (as product). Product **831** contains an inorganic pH adjustment and protective film-forming compound. It protects supply and distribution water piping by formation of a monomolecular film on exposed metals. Product **831** can help restore the esthetic value of older water supply installations by reducing iron stains, taste and odor.

### FEEDING TECHNIQUE

Pump directly from the shipping container into water supply line of the system. Alternatively, pump from a chemical dilution and feed tank.

### SAFETY & HANDLING PROCEDURE

This product is a moderately alkaline liquid. It can be safely handled using the standard precautionary procedures associated with industrial chemicals of this type. Wear eye protection and rubber gloves. Avoid prolonged or repeated contact with product.

### DOSAGE

Initial dosage of 6 ounces per 1,000 gallons of water. Continuous dosage at a lower rate sufficient to maintain the desired net residual.

### CONTROL

Maintain a residual of up to 12 parts per million as silica, above background levels, to establish a surface film. Once a film layer is established, maintain 8 to 10 parts per million above back ground. Consult your CH<sub>2</sub>O Technical Representative for further testing information. 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 .....	9.5 to 10.5
Pounds per Gallon .....	11.0 to 11.5
Physical Appearance .....	Clear 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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