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## 6271 BOILER WATER TREATMENT EXCESS PHOSPHATE METHOD

### APPLICATION

Natural water contains gasses and minerals that can cause corrosion and deposit formation in steam boiler systems. This leads to loss of efficiency and damage from leakage or overheating. CH<sub>2</sub>O Boiler Treatment Products are designed to reduce many of the inherent problems associated with steam boiler applications.

No chemical product can completely eliminate water-related problems; results are dependent on several factors including maintaining proper chemical residuals, system operation, design, cleanliness, metallurgy, and water quality. For optimal results the following actions should be taken by qualified operational personnel:

- initial system cleaning and passivation;
- maintaining feedwater free of contaminants and particulate matter;
- insuring proper chemical feed rates and system blow-downs;
- verifying proper operation of chemical control and pretreatment equipment; and
- daily testing and recording of chemical residuals.

If problems are encountered maintaining product residuals, additional analytical testing may be required. At your request a CH<sub>2</sub>O representative may assist in performing these services.

Product **6271** is formulated to meet FDA/USDA food plant applications. It is a one-drum boiler compound with phosphate-based inhibitors, synthetic dispersants, and oxygen scavengers. It is suited for a wide array of feedwater conditions when mineral precipitation is the preferred scale control program. A volatile amine is added to aid in neutralizing carbonic acid in condensate systems.

### SAFETY & HANDLING PROCEDURE

This product is a highly alkaline liquid. Wear protective clothing and face shield when dispensing from container. Flush exposed skin with cold water immediately. If ingested, do not give emetics. Give 5 or 6 ounces of milk, contact a physician immediately and follow his directions.

### FEEDING TECHNIQUE

Inject directly into the feedwater line, makeup water line, or boiler.

### CONTROL

Maintain a residual of 30 to 60 parts per million of orthophosphate in the system at all times. Contact your CH<sub>2</sub>O representative for further information on analytical testing. Daily testing is necessary for best results. 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.

### DOSAGE

Initially charge the system at 3 quarts per 1,000 gallons of water. Maintain the system by feeding product at the rate of 10 ounces per 1,000 gallons of makeup to the system.

### PHYSICAL PROPERTIES

pH of 1% .....	11.5±0.5
Pounds per Gallon.....	10.0±0.5
Physical Appearance.....	Clear Liquid
Odor.....	Mild
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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