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709 ANTI-FOAM FOR BOILERS

APPLICATION

Occasionally, organic materials from makeup water sources or from process contamination of boiler condensate can create boiler-operating problems. One problem associated with organic contamination is foaming. The organic materials increase surface tension in boiler water, which allows the formation of stable bubbles between the liquid water level and the steam header. When not controlled, foam may fill the steam header and carry over into steam and condensate return piping. Boiler water treatment programs are usually not designed to prevent foaming caused by such contamination.

Foaming in boilers may be controlled by adding anti-foam materials, which reduce surface tension in boiling water. The anti-foam will cause steam bubbles rising from the liquid water to burst in a manner very similar to that of uncontaminated water. The normal production of steam may be restored.

Product **709** is a highly concentrated non-silicone anti-foam. It is used mainly to eliminate foaming in boilers caused by oil contamination. It also can be used in any circumstance where high temperature water has been contaminated by oily substances such as mint oil, oils leached from wood products, rendering by-products, soaps or any other organic cause.

SAFETY & HANDLING PROCEDURES

This product is not extremely harmful by skin contact, although the standard precautions should be taken for handling industrial chemicals. However, inhalation of product in an aerosol can be extremely harmful. Do not use this product in situations where an aerosol will be generated.

DOSAGE

Use at the rate of 1 ounce per 10 square feet of surface area to be treated. If foaming persists, slightly higher quantities of the product may be needed. Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. It is the customer's responsibility to monitor and maintain treatment levels.

FEEDING TECHNIQUE

Dilute with warm water and apply by any convenient method.

CONTROL

A residual of 2 to 5 parts per million is adequate for most normal foaming problems.

PHYSICAL PROPERTIES

pH of 1% Solution.....	7.2
Pounds per Gallon.....	8.8
Physical Appearance	Pink Liquid
Odor	Aromatic

Seller Warranty

CH₂O 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. CH₂O 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 directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. 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 CH₂O, Inc., and is hereby communicated to all of its customers as a condition of sale. Use of CH₂O products is subject to the Standard Terms and Conditions as listed on CH₂O, Inc.'s website at: www.ch2o.com.

