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Product Bulletin

6301-T

Non-Phosphorous Cooling Tower Treatment

APPLICATION

Mineral crystallization on cooling system heat-transfer surfaces is the chief cause for cooling system failure. Loss of heat conduction causes loss of cooling efficiency and may cause excessive energy consumption. If mineral deposits are formed, high compressor pressures or temperatures will cause the refrigeration equipment to consume higher electrical energy. Also, process cooling units lose ability to transfer heat. In either case, loss of efficiency can lead to a complete system shutdown.

Product **6301-T** is an aqueous blend of polymers and corrosion inhibitors. The product is moderately stable in the presence of oxidizing biocides.

Product **6301-T** is formulated to meet cooling tower needs where discharge of phosphates and phosphorous has been prohibited.

SAFETY & HANDLING PROCEDURE

This product is a highly acidic liquid. It can be handled safely using the standard precautionary procedures associated with industrial chemicals of this type. Read and understand the Material Safety Data Sheet before handling this product.

FEEDING TECHNIQUE

Inject through a chemical pump, add to an area of high dispersion to avoid direct contact of the concentrated product with system metal.

CONTROL

Chemical residual in the system may be monitored by using CH₂O's P-2 test kit or a fluorometer. Using CH₂O's P-2 test kit, maintain a residual of 4 to 6 parts per million of active POSCA in the system at all times. Or, using a fluorometer, maintain a residual of 40 to 60 parts per billion PTSA in the system at all times. This product should be used only with a reliable proportional feed, or pH control system. Contact your CH₂O 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 the rate of 36 fluid ounces per 1,000 gallons of system capacity. Maintain system treatment by feeding Product **6301-T** at a rate proportionate to the cycles of concentration being maintained with respect to the volume of feed water.

PHYSICAL PROPERTIES

pH of 1% Solution	2-4
Pounds per Gallon	9.1-9.6
Physical Appearance	Colorless Liquid
Odor	Mild
Flash Point	NA

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 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 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.



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