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## Product Bulletin

# 6318

## COOLING WATER TREATMENT

### APPLICATION

CH<sub>2</sub>O Cooling Water Treatments are designed to reduce generalized corrosion and mineral deposition in evaporative cooling systems. Excessive corrosion can result in loss of system integrity and mineral deposits reducing system efficiency.

Product performance is dependent upon maintaining proper chemical residuals, system design, operation, cleanliness, and metallurgy, and water quality. For optimal results the following actions should be taken by qualified operational personnel:

- Initial system cleaning and passivation;
- Periodic inspections of all system components;
- Maintaining systems free from particulate matter and sludge accumulations;
- Insuring proper chemical feed rates and system bleed-off;
- Control of biological organisms accompanied by periodic biological testing; 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 Water Treatment Specialist may assist in performing these services.

Product **6318** is formulated for evaporative/ recirculating water systems as part of the mineral precipitation control program. This formula is specifically designed for use in systems that demand pH suppression. It should not be used in low-alkalinity make-up water conditions. Care must be exercised to ensure that the product is adequately dispersed prior to contacting metal surfaces in the system.

### SAFETY & HANDLING PROCEDURE

This product is very acid and will cause burns upon exposure. Full protective clothing must be worn when handling, including impervious apron, boots, goggles and face shield.

### 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).

### FEEDING TECHNIQUE

Inject through a dilution trough, or area of high dispersion to avoid direct contact of the concentrated product with system metal. **CAUTION:** Extreme damage / corrosion may result from improper feed or injection of this product.

### CONTROL

Chemical residual in the system may be monitored by using CH<sub>2</sub>O's P-2 test kit or a fluorometer. Using CH<sub>2</sub>O's P-2 test kit, maintain a residual of 4 to 6 parts per million 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 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 the rate of 20 to 40 fluid ounces per 1,000 gallons of system capacity. Maintain system by feeding product **6318** as required to achieve desired product residual and pH.

### PHYSICAL PROPERTIES

pH of 1% Solution.....	<2.0
Pounds per Gallon.....	9.9-10.4
Physical Appearance.....	Clear Liquid
Odor .....	Mild
Flash Point .....	NA



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