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## Product Bulletin

# 6319

## COOLING WATER TREATMENT WITH FLUORESCENT TRACER

### APPLICATION

CH<sub>2</sub>O Cooling Water Treatment products 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 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;
- 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.

**6319** is formulated for evaporative/recirculating water systems as part of the mineral precipitation control program. This formula gives excellent performance over a wide array of make-up water conditions, and it is an excellent choice for higher silica conditions.

A fluorescent dye has been included in product **6319** as a tracer. The tracer dye is easily detectable on instrumentation to determine treatment levels.

### FEEDING TECHNIQUE

Inject directly into the condenser water recirculating line or the basin of the cooling tower in an area of high dispersion.

### SAFETY & HANDLING PROCEDURE

**6319** is slightly acidic. Safety gloves and goggles must be worn when handling the product concentrate. Solution can be safely handled using standard precautionary procedure associated with industrial chemicals of this type. Read and understand the SDS before handling this product.

**ORGANIC FORMULATIION** – **6319** is formulated with all organic compounds. It contains no heavy metals, phosphate, or molybdate.

### 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 about 12 ounces per 1,000 gallons of system capacity. Maintain system treatment by feeding product **6319** at the rate of about 3 ounces per 1,000 gallons of makeup water.

### PHYSICAL PROPERTIES

pH of 1% Solution .....	2 - 4
Pounds per Gallon .....	8.6-9.1
Physical Appearance .....	Dark Orange / Brown 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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