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## Product Bulletin

# EMITTER CLEAR FS PATENTED ANTI-FOULANT (International Patents Issued and Pending)

## APPLICATION

Mineral crystallization in irrigation networks may often lead to plugging of nozzles and clogging of sand filters or heat-exchangers. The use of strong mineral acid washes has proven to be expensive and often impractical in removing these deposits. Other hazards associated with strong mineral acids include handling, storage, and disposal procedures.

One approach to addressing mineral deposits is to treat the water system with a material that alters the formation and growth of hard crystalline deposits. **EMITTER CLEAR FS** is a water treatment product that causes mineral crystals to deform and become highly irregular. The distorted crystals are powdery in nature, which reduces accumulation of crystalline mineral deposits that can restrict and plug emitter nozzles.

**EMITTER CLEAR FS** allows simple on-site generation of a chelant compound as part of your specific treatment program.

## SAFETY & HANDLING PROCEDURE

This product is a moderately acidic liquid. Chemical splash goggles and impervious gloves should be worn during all handling of the concentrate. Refer to the Material Safety Data Sheet for further safety and handling procedures. Protective clothing and gloves should be worn during use of concentrated product to minimize skin and eye contact.

## FEEDING TECHNIQUE

Inject directly into the water distribution lines. Use this product only with applicable CH<sub>2</sub>O precursor chemicals and dose the solution with properly calibrated and maintained metering equipment.

## CONTROL

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. Additional testing may be performed upon request.

## DOSAGE

Use only with compatible operating equipment. A control test is necessary for individual applications to determine tolerance. Customers shall set treatment levels based on their control test results.

## PHYSICAL PROPERTIES

|                          |              |
|--------------------------|--------------|
| pH.....                  | 1.0 to 2.0   |
| Pounds per Gallon.....   | 10.3-10.8    |
| Physical Appearance..... | Clear Liquid |
| Odor.....                | Mild         |
| Flash Point.....         | N/A          |

## 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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