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DISPERSE-IT

ORGANIC DISPERSANT & PENETRANT FOR COOLING WATER SYSTEMS

APPLICATION

DISPERSE-IT is an organic penetrant and dispersant for use in cooling water systems. It was designed to help maintain clean surfaces in heat transfer equipment and cooling towers, as well as to aid in the cleaning of fouled systems. **DISPERSE-IT** is particularly effective in cleaning organic deposits that result from the production of algal and bacterial biofilms when proper dosage levels are maintained in the system.

DISPERSE-IT reduces surface fouling and can therefore lower the demand for biocides in the system. The product may also reduce the demand for corrosion inhibitors.

DISPERSE-IT acts by penetrating the matrix of organic deposits. The penetrating action can slough off and disperse organic materials. Instantaneous results from the addition of **DISPERSE-IT** can be monitored with ATP testing.

SAFETY & HANDLING

DISPERSE-IT is an acidic liquid. It can be safely handled using the standard precautionary procedures associated with industrial chemicals of this type. Avoid prolonged or repeated skin contact. Read material safety data sheet before handling this product.

FEEDING TECHNIQUE

Add **DISPERSE-IT** from the bucket into the sump of the system, or other point of uniform mixing.

Note that there is a high potential for foaming when using **DISPERSE-IT**. It is best to have a defoamer available on-site in case this foaming occurs.

CONTROL

The amount of **DISPERSE-IT** used will depend upon the severity of the system conditions. Do not use above recommended dosage listed below.

DOSAGE

For maintenance of clean surfaces in previously cleaned systems, product should be fed at a rate of 4-8 ounces per 1,000 gallons. This dose can be applied every 1 to 3 days per week in slug doses although the best-feed method is to drip or slow add the required amount over several hours. Systems that have a greater tendency to foul should be dosed at a rate of 6-12 ounces per 1,000 gallons two to three times weekly.

For cleaning fouled systems, the product should be applied at a rate of 4 ounces per 1,000 gallons daily until deposits are removed. A microbiocide is not recommended at the cleanout stage. A test based on ATP as a general cleanliness index is recommended along with a traditional microbial count assay.

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.

PHYSICAL PROPERTIES

pH of 1% Solution.....	4-6
pH of Use Solution	6-9
Pounds per Gallon.....	8.2-8.7
Physical Appearance.....	Amber Liquid
Odor	Moderate, Vinegar-like
Flash Point	N/A

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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