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Product Bulletin

6153U SYNTHETIC ORGANIC DISPERSANT

APPLICATION

Solid materials are present in boiler, hydronic loop, and processing water in the form of suspended particles. They may also be located in deposits within equipment where water circulates. Furthermore, they may be created by reaction of soluble materials during water utilization. Deposits and accumulations of these materials on heat-transfer surfaces cause operating energy losses. Boilers and hydronic loops are typical of heat-transfer processes that are affected. In the case of process recirculating water, deposits promote "under deposit corrosion" which can rapidly destroy valuable equipment.

Mineral deposits can be mobilized and removed from operating equipment by a variety of effective organic dispersants. Synthetic organic dispersants have been developed to provide results that are superior to natural products used in the early history of water treatment. The varieties available include general-purpose dispersants and some dispersants that are particularly effective to specific substances.

Product **6153U** is specially formulated for use in high LSI applications that require conformance to FDA regulations (21CFR 173.310). It is typically used as a supplement for existing water treatment programs. Product **6153U** is a blend of dispersants designed to work to inhibit precipitation of minerals as well as to help disperse any precipitated minerals.

SAFETY & HANDLING PROCEDURE

This product is a neutral liquid. It can be safely handled using the standard precautionary measures associated with industrial chemicals. Review and understand the product SDS before handling or use.

FEEDING TECHNIQUE

Inject directly into the feedwater line, makeup water line, or boiler. For cleaning operations addition can be made with a bypass feeder or one-shot feeder.

CONTROL

Product 6153 should be added to the feedwater at no more than 30 ppm when used in FDA applications. Cycles of concentration and dose of product will vary between systems, but it is suggested that 10-30 ppm active polymer is maintained in the system.

Consult your CH₂O water treatment specialist for individual recommendation, based upon your specific system needs. 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

An addition of 11.9 fluid ounces per 1,000 gallons of system capacity will increase the active polymer residual by 10 ppm. Dosage will vary, depending upon the amount and type of substance being dispersed.

PHYSICAL PROPERTIES

pH of 1% Solution	6.0 – 9.0
Pounds per Gallon	8.8 – 9.3
Physical Appearance	Clear, Amber Liquid
Odor	Mild, Non-descript
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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