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6149U SYNTHETIC ORGANIC DISPERSANT

APPLICATION

Solid materials are frequently 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. Many processes cause suspended solids to 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 circulation water, deposits promote "under deposit corrosion" which can rapidly destroy valuable equipments.

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 **6149U** is a product used alone for cleaning newly installed equipment or as a supplement for precipitating and non-precipitating water treatment programs. Product **6149U** is a blend of dispersants to give a broad range of effectiveness and exceptional results for minerals found in boilers and hydronic loops. It also increases total water alkalinity. Added alkalinity helps solubilize silica in boiler water, and helps to remove organic foulants in cleaning applications.

SAFETY & HANDLING PROCEDURE

This product is a highly alkaline liquid. It should be handled with extreme caution, making sure to avoid chemical contact with eyes or skin. Wash any exposed areas immediately with fresh water for 15 minutes. Remove and launder contaminated clothing before reuse.

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

The chemical residual depends upon the application requirements. Typical applications use 10 ppm. Consult your CH₂O water treatment specialist for individual recommendation. Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. It is the customer's responsibility to monitor and maintain treatment levels.

DOSAGE

Typical use requires 28.4 fluid ounces per 1,000 gallons. The dosage varies depending upon the amount and type of substance being dispersed. Product **6149U** is approved for use in USDA-G6 regulated food processing plant applications.

PHYSICAL PROPERTIES

pH of 1% Solution.....	12.0-13.5
Pounds per Gallon.....	10.5
Physical Appearance.....	Clear Liquid
Odor	Mild
Flash Point	NA

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 directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. 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.

