

SRI-40 BIO-GUARD TREATMENT

APPLICATION

Cooling towers provide a near-ideal environment for microbial proliferation. Warm water temperatures, nutrients, and constant exposure to the surrounding air encourage growth and virtually assure ongoing contamination by microorganisms. The U.S. Public Health Service Center for Disease Control & Prevention (CDC) has identified some of these organisms to cause human illness or death. OSHA Technical Manual Section II - Chapter 7 states that biocide control of such organisms is needed.

Unchecked microbial growth may also cause a rapid loss of heat-transfer efficiency by fouling piping, nozzles, packing, process heat exchangers, and drift eliminators. Growth under deposits or slime masses can yield accelerated localized corrosion of system metal components. These problems, due to growth and development of algae, bacteria, and fungi greatly reduce efficiency in a system and significantly increase operating costs. Microbial organisms in nature vary considerably as a hazard to human health and in susceptibility to any particular bactericide. CH₂O's **BIO-GUARD** series offers a wide variety of biocide products, which have been shown effective against microorganisms found in cooling tower waters.

SRI-40 is:

2,2-dibromo-3-nitropropionamide

SRI-40 aids in controlling microbial growth in water-cooling towers and air-washers. It is effective over a wide pH and temperature range and is non-foaming. **SRI-40** is noncorrosive and does not contain heavy metals.

SPECIFICATIONS

SRI-40 is a highly effective, time-release form of 2,2-dibromo-3-nitropropionamide (DBNPA). It comes in

SPECIFICATIONS (Continued)

solid form (a 200 gram cylindrical tablet) containing 40 percent active DBNPA. The tablet releases DBNPA into water by dissolving at a controlled rate over a three-week period.

SRI-40 combines quick kill with rapid degradation. These properties make it easy to achieve forceful microbial control while meeting strict discharge regulations. The typical dose rate is one tablet per 1,000 gallons of water every three weeks, although effective bacterial control programs have been established maintaining residuals of less than 1 ppm active DBNPA in the system water. Systems which have a potential for algal growth should double the recommended dose rate.

DBNPA, the active ingredient in **SRI-40** is compatible with other treatment chemicals. It won't react with charged substances like many common scale inhibitors, dispersants, or corrosion inhibitors. DBNPA also functions over a broad pH range; dependable performance has been obtained in waters operating at pH's as high as 8 and 9.

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.

SAFETY & HANDLING PROCEDURE

DBNPA is potentially damaging to the eyes and can cause chemical burns to the skin with prolonged contact. Although **SRI-40** tablets are specially packaged to help reduce direct contact exposure, we suggest that chemical workers' goggles and gloves be worn when handling the product. **NOTE: Leave the polyvinyl alcohol film wrapper on the SRI-40 tablets when handling.** The film is water-soluble and will dissolve approximately 5 minutes after being placed in water.

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.