



8820 Old Hwy 99 SE, Tumwater, Washington 98501, USA  
360-943-6063 800-562-6184 FAX 360-352-4813 [www.ch2o.com](http://www.ch2o.com)

**Product  
Bulletin**

## SCT-1S SOLID COOLING WATER TREATMENT

### APPLICATION

Mineral crystallization on cooling system heat-transfer surfaces is the chief cause for cooling system failures. Loss of heat conduction causes loss of cooling efficiency and may cause excessive energy consumption. If mineral deposits are formed, high compressor pressures or temperatures will cause the refrigeration equipment to consume higher electrical energy. Also, process cooling units lose ability to transfer heat. In either case, loss of efficiency can lead to a complete system shutdown.

**SCT-1S** is a proprietary cooling water treatment for moderately stressed conditions that employs anti-scalant, dispersion and corrosion inhibition technologies in concentrated solid/paste form.

**PRODUCT SCT-1S** is formulated to meet cooling tower needs for high mineral control, and has special additives for controlling silica. Its ability to hold high concentrations of minerals (such as calcium and magnesium) in solution can inhibit damage due to new mineral deposit formation. **PRODUCT SCT-1S** has a neutral pH for use in pH neutral to slightly alkaline waters where pH and oxygen corrosion control is needed, but is not the dominant concern.

### SAFETY & HANDLING PROCEDURE

This product is a neutral solid. It can be safely handled using the standard precautionary procedures associated with industrial chemicals of this type. Read and understand the SDS before handling this product.

### FEEDING TECHNIQUE

Feed product from a PDS (Product Dissolution System) mixing system/erosion feeder via a properly rated chemical pump controlled by a conductivity controller or water meter timer.

### CONTROL

Maintain a residual of 3 to 6 parts per million of POSCA, as tested by CH<sub>2</sub>O Inc.'s P-2 Test Kit, in the system at all times. Maintain 2.0 to 3.0 ppm as a gross phosphate residual when using the UV Conversion Test. Contact your CH<sub>2</sub>O, Inc. water treatment specialist for further information on analytical testing. 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 .....6.5 – 7.5  
Bulk Density .....Approx. 12-13 lbs/gal  
Physical Appearance ..... White Solid  
Odor ..... Mild  
Flash Point.....NA

### 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).



Version Date: March 30, 2017 | REVISED: October 15, 2019

