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STRUV-ALL CONCENTRATED STRUVITE SCALE CLEANER

APPLICATION

Struvite is formed in the discharge line from dairy waste digesters, thus reducing flow. Although struvite can be minimized by the use of dispersing polymer treatment, the standard industry practice is to allow struvite formation over time and then perform a cleaning to remove it.

The use of strong mineral acid washes has proven to be dangerous to applicators, corrosive to lines, and often ineffective at removing struvite deposits. Other hazards associated with strong mineral acids include handling, storage, and disposal procedures.

STRUV-ALL is a concentrated blend of acids and surfactants that is particularly effective at removing struvite scale deposits. Since **STRUV-ALL** is diluted before use, it is much safer to the applicator and to the lines than the concentrated acids that have historically been used for cleaning lines.

SAFETY & HANDLING PROCEDURE

STRUV-ALL is an acidic liquid. Chemical splash goggles and impervious gloves should be worn during all handling of the concentrated product. Refer to the Material Safety Data Sheet for further safety and handling procedures. Protective clothing and gloves should be worn during use of concentrated product as necessary to minimize skin and eye contact.

DIRECTIONS FOR USE

For cleaning lines, it is best to isolate the section to be cleaned. Charge this section of line with a 10% to 20% solution of **STRUV-ALL** solution and allow the solution to sit, undisturbed, for two to six hours. Flush the lines with full water flow to remove struvite debris and prepare lines for use. Check pH of flush water to insure it is back to normal before using lines.

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.

Piping systems and equipment may be damaged prior to commencing cleaning evolutions, and unavoidable damage may occur during cleaning procedures. Therefore, CH₂O disclaims any damage to equipment or individuals who come in contact with this product.

Any waste generated during cleaning evolutions is the sole responsibility of the customer. Disposal, or discharge, should be conducted in accordance with applicable regulations.

PHYSICAL PROPERTIES

pH.....	Less than 2.0
Pounds per Gallon	9.1-9.6
Physical Appearance	Clear Liquid
Odor	Mildly Pungent
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 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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