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Product Bulletin

AGRI GUARD[®]™ 841

APPLICATION

Impurities in irrigation water can result in mineral crystallization on maturing crops, which is difficult to remove during post-harvest washing. Typical mineral deposits adhere tightly to the skin of fruit. This deposit is composed chiefly of calcium and magnesium carbonates. In the past, strong mineral acid washes have been an expensive method for removing these deposits. In addition to being costly, strong mineral acids are also corrosive to processing equipment. Other hazards associated with strong mineral acids include handling and storage procedure.

Traditionally, sulfur burners and sulfuric acid have been utilized to inhibit the formation of crystalline mineral deposition. These approaches have been effective with source waters of low to medium levels of impurities to inhibit serious deposition problems. However, the risk of inducing phototoxicity is high if strict residual controls are not maintained. These approaches are effective only within a small pH range that plants will tolerate. pH outside of this range may cause plant foliage to be damaged.

AGRI-GUARD[®] 841 is specifically formulated for overhead irrigation systems. It causes distortion of mineral deposits, producing a highly irregular pattern. The resulting deposit is soft, relatively non-adherent, and is easily removed during regular post-harvest cleaning. Materials used in **AGRI-GUARD[®] 841** are listed in Title 21 CFR Part 173.310 - Secondary direct food additives permitted in food for human consumption.

SAFETY & HANDLING PROCEDURE

This product is acidic. Chemical splash goggles and impervious gloves should be worn during all handling of the concentrate. Eye contact will cause severe irritation with possible burns. Refer to the Material Safety Data Sheet for further safety and handling procedure.

FEEDING TECHNIQUE

Inject directly into the irrigation lines and dose the solution with properly calibrated and maintained metering equipment.

CONTROL

Maintain a residual of 0.5 to 5 parts per million of active **AGRI-GUARD[®] 841** in the system at all times. Contact your 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. Additional testing may be performed upon request.

DOSAGE

Inject **AGRI-GUARD[®] 841** directly into the system distribution lines at the rate of 0.30 to 3.0 ounces per 10,000 gallons of water. This dosage rate will yield a residual of 0.5 to 5 ppm. Dosage may be adjusted as required to help maintain adequate control.

PHYSICAL PROPERTIES

pH of 1% Solution	1.5-2.5
Pounds per Gallon	9.1-9.6
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 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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