



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

December 17, 2024

Deanna Mansueto
Senior Regulatory Affairs Associate
Arxada
Electronic Transmittal: deanna.mansueto@arxada.com

Subject: PRIA Label and CSF Amendment – Adding new organisms and efficacy claims to the label and revising Basic and Alternate CSFs 3
Product Name: Bioside HS 15%
EPA Registration Number: 63838-2
Received Date: 2/23/2024
Action Case Number: 00501741

Dear Deanna Mansueto:

The amended label and CSFs referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. Pursuant to 40 CFR 156.10(a)(6), you must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.


Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated, 9/8/2023
- Alternate CSF 3 dated, 9/8/2023

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Steven Snyderman by phone at (202) 564-0910, or via email at snyderman.steven@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Steven Snyderman". The signature is written in a cursive style with a horizontal line underneath the name.

Steven Snyderman, Product Manager 33
Regulatory Management Branch II
Antimicrobials Division (7510M)
Office of Pesticide Programs

Enclosure: Stamped Final Label

[Bracketed information is optional text.]
{Items in braces {AAA} are for information purposes and will not appear on final label}

BioSide™ HS 15% (Antimicrobial Solution)

(Alternate Brand Name: Peragreen 15%, Peragreen WW)

Sublabel A: General Directions for Use

Sublabel B: Agricultural Uses

[BioSide™ HS 15%] [This product] is a peroxyacetic acid-based antimicrobial solution developed for [Equipment] [Sanitizing], [Disinfection], [Aseptic Packaging], [Laundry Sanitization and Bacteria], [Fungi], [Slime and Odor Control] [in:] [Pulp and Paper Mill Systems], [Fruit and Vegetable Process Water Systems], [Irrigation Water Treatment], [Oil and Gasfield Water Systems], [and] [Bacterial and Algae Control in Recirculating], [Agricultural], [and] [Wastewater Treatment Systems].

Active Ingredients:

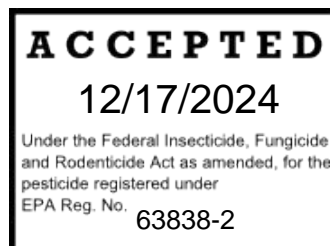
Peroxyacetic Acid	15.0%
Hydrogen Peroxide	22.0%

Inert Ingredients: 63.0%

Total: 100.0%

EPA Registration No. 63838-2

EPA Est. No. [63838-CA-01]: [63838-AR-001]



Before Using This Product, Please Read This Entire Label Carefully

KEEP OUT OF REACH OF CHILDREN

DANGER-PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand this label, find someone to explain it to you in detail.)

Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front panel of the product label.

FIRST AID

IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
QUESTIONS ? 1-209-581-9576	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured By:

ENVIRO TECH CHEMICAL SERVICES, Inc.
500 Winmoore Way, Modesto, CA 95358
209-581-9576 or www.envirotech.com

Ver 14.0c (FEB 2024)

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER CORROSIVE: Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, rubber gloves and protective clothing with long sleeves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse. Do not enter an enclosed area without proper respiratory protection, or when uncoupling of product transfer hoses. Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination N1, R, or P filters; or a NIOSH-approved gas mask with OV canisters; or a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters when handling concentrate product.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. CORROSIVE: [Mix only with water below 140° F.] Product must be diluted in accordance with label directions prior to use. This product is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, fish and aquatic invertebrates. Caution must be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollutant Discharge System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage plant authority.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

[Note: All volumes given in ounces are fluid ounces].

SANITIZATION

This peroxyacetic acid sanitizer is recommended for use on precleaned hard, non-porous surfaces such as equipment, pipelines, tanks, vats, filters, evaporators, pasteurizers, and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, and egg processing/packing equipment surfaces. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO₃. This product has demonstrated 99.999% reduction of Staphylococcus aureus and Escherichia coli in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

Sanitizing Food Contact Surfaces: Sanitize with a concentration of 0.7-3.8 fl. oz. of this product diluted in 10 gallons of water (93-500 ppm active peroxyacetic acid and 136-733 ppm active hydrogen peroxide). Use immersion, spray or circulation techniques as appropriate to the equipment. All surfaces must be exposed to sanitizing solution for a period of at least 60 seconds or more if specified by a governing code. Drain thoroughly and allow to air dry. Do not rinse.

Sanitization of Conveyors and Equipment for Meat, Poultry, Seafood, Dairy, Fruit, Nuts and Vegetables: This product is effective against the gram positive organism Staphylococcus aureus and gram negative organism Escherichia coli. For use in the static or continuous sanitizing, washing or rinsing of conveyors, slicers, saws, and equipment, apply a solution of this product using a recommended 0.7-3.8 fl oz. per 10 gallons of water (93-500 ppm active peroxyacetic acid and 136-733 ppm active hydrogen peroxide). Apply sanitizer solution to the return portion of the conveyor or equipment using spray or similar means of wetting surfaces, so as to prevent puddling. Allow sanitizer to thoroughly wet surface for a minimum 60 seconds contact time. No rinse is needed.

Final Bottle or Container Rinse: This product may be used as a final sanitizer rinse for pre-cleaned returnable and non-returnable bottles or containers at 93-500 ppm active peroxyacetic acid and 136-733 ppm active hydrogen peroxide (0.7-3.8 fl. oz. of this product diluted in 10 gallons of water). The container must be drained as much as is practical prior to filling operations.

Combination Disinfection and Cleaning: This product is effective against *Staphylococcus aureus* and *Salmonella enterica* at 1.0 oz per 10 gallons of water (130 ppm active peroxyacetic acid and 191ppm active hydrogen peroxide) in hard water (400 ppm as CaCO_3) and 5% organic soil on hard nonporous surfaces. For visibly soiled areas a pre-cleaning step is required. Apply solution with a mop, cloth, sponge, brush, or by soaking, spraying, or immersion so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup or by draining. Prepare a fresh solution daily or when it becomes soiled or diluted.

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

To reduce the number of nonpathogenic beverage spoilage organisms: *Aspergillus versicolor*, *Byssoschlamys fulva*, *Pediococcus damnosus*, *Lactobacillus buchneri*, and *Saccharomyces cerevisiae*, use 1.0 to 10.1 fluid ounces of product per 5 gallons of water. This provides 265 to 2700 ppm peroxyacetic acid and 389 to 3960 ppm hydrogen peroxide. All surfaces must be exposed to antimicrobial solution for at least 15 seconds. Allow containers to drain thoroughly. A rinse is optional. Either sterile or potable water may be used.

COMMERCIAL STERILANT FOR ASEPTIC PACKAGING OF LOW ACID FOOD

This product can be used in food, beverage and dairy processing aseptic packaging systems as a commercial sterilant to treat clean, non-porous food, beverage and dairy packaging materials and equipment, such as, pipelines, pumps, tanks, vats, fillers, evaporators, and pasteurizers, when the solution is prepared in water of up to 400 ppm hardness.

Food Packaging Materials: This product may be used alone or in combination with other processes as a commercial sterilant for aseptic packaging of low acid foods, such as, commercial sterilization of aseptic filling systems and glass and plastic food packaging and their enclosures prior to filling, except for use on food packaging used in contact with infant formula or human milk or on aseptic filling equipment used to fill such packaging. Apply at a concentration of 3.4 fl. oz. of this product per 1 gallon of water (4500 ppm peroxyacetic acid and 6597 ppm hydrogen peroxide) and at a temperature of 65°C. Use immersion, coarse spray, or circulation techniques as appropriate to sterilize the food, beverage or dairy packaging materials. The solution must remain in contact with the packaging surface for a minimum of 20 seconds. Rinse containers with sterile water prior to filling with processed food, beverages or dairy products. When used according to label directions, this product is effective against spores of the following organisms: *Bacillus subtilis*, *Bacillus cereus* and *Clostridium sporogenes*.

For a fine mist or vapor application, no rinse treatment is required if: (1) solution application does not exceed 0.0175 mL treatment solution per ounce container capacity; (2) treatment solution has not been recycled; (3) no treatment solution with a concentration of higher than 4500 ppm peracetic acid and 6597 ppm hydrogen peroxide has been added to the treatment solution reservoir.

The aseptic food, beverage and dairy food processing operation must comply with all applicable FDA regulations and Food Contact Notification (FCN) 1851. Use in an aseptic food, beverage and dairy processing operation includes testing required for the process validation.

Aseptic Food Packaging Equipment: This product may be used as a commercial sterilant for aseptic packaging of low acid foods for non-porous food manufacturing, packaging and filling equipment. Remove gross soil particles from surfaces prior to use of this product. Thoroughly clean surfaces and follow with a potable water rinse. Commercially sterilize clean manufacturing, filling, and packaging equipment with a concentration of 3.4 fl. oz. of this product per 1 gallon of water (4500 ppm peroxyacetic acid and 6597 ppm active hydrogen peroxide) at a temperature of 65°C. Use immersion, coarse spray, or circulation techniques as appropriate to sterilize the equipment. The solution must remain in contact with the equipment for a minimum of 20 seconds. Allow to drain dry. A final rinse with sterile water is optional. When used according to label directions, this product is effective against *Bacillus subtilis*, *Bacillus cereus* and *Clostridium sporogenes*.

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LAUNDRY SANITIZATION

This product is designed for use in commercial, institutional and industrial laundry operations and has demonstrated greater than 99.9% reduction of *Staphylococcus aureus* [(ATCC 6538)], *Klebsiella pneumoniae* [(ATCC 4352)], *Pseudomonas aeruginosa* [(ATCC 15442)], methicillin-resistant *Staphylococcus aureus* (MRSA) [(ATCC 33592)], *Listeria monocytogenes* [(ATCC 49594)], *Salmonella enterica* [(ATCC 10708)], community acquired methicillin-resistant *Staphylococcus aureus* [(NARSA NRS 384)] and *Escherichia coli* O157:H7 [(ATCC 43895)] in accordance with the ASTM Standard Test Method for Evaluation of Laundry Sanitizers.

To Sanitize and Bleach: Using the appropriate dispenser, inject this product into the bleach or rinse step. This product is effective in water up to 500 ppm water hardness [(up to 29 grains per gallon)] a rate of 3 fl. Oz. per maximum 60 gallons of water [(68 ppm peroxyacetic acid and 98 ppm hydrogen peroxide)] to sanitize a maximum of 100 pounds of dry laundry (at a rate of 90 mL per maximum 227 L of rinse water to sanitize a maximum of 45 kg dry laundry). Treat the laundry for a minimum of 5 minutes at a temperature of at least 90°F (32°C). Softener can subsequently be added after the 5 minute sanitizing step. Following the sanitizing step, the laundry may be rinsed with water that may include starch, softener, odor neutralizer, fragrance, soil release agent, sour and/or fluid repellent. For further bleaching action, an additional dose of product up to 17 fl. Oz./cwt may be added in the bleach or rinse step at a temperature of at least 90°F [(32°C)]. Use level, time and temperature will vary depending on stain level, fabric type and load weight.

REVERSE OSMOSIS (RO), ULTRA FILTRATION (UF) AND OTHER MEMBRANE CLEANING

This product may be used in the sanitization of ultra filtration (UF) and reverse osmosis (RO) membranes and their associated piping systems. This product is not for use in kidney dialysis equipment. Do not use the intermittent or continuous dosing methods for nano or ultra-filtration food or drinking water applications. This product may not totally eliminate all vegetative microorganisms in RO or NF or UF membranes and their associated piping systems due to their construction or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Prior to using this product check with membrane manufacturer to confirm compatibility of membranes with various types or concentration of peroxyacetic acid solutions.

Batch Sanitation of NF, UF and RO Systems: Isolate incompatible equipment, such as carbon filters and ion exchangers. Clean system with an appropriate cleaner and follow with RO permeate water or potable water. Remove mineral deposits if necessary with an acidic cleaner, and rinse as before. Fill entire system with water and add up to 0.5% of this product by volume. This will equal 680 ppm peroxyacetic acid and 1000 ppm hydrogen peroxide. Recirculate the sanitizing solution through the piping and membrane system at 20° C for 10 minutes minimum, or up to 4 hours, depending on the severity of cleaning to be done. Open and close process valves and solenoids to be sure all parts are in contact with the solution. Rinse the system with RO permeate or potable water until residual peroxygen concentration is below 1 ppm.

Continuous or Intermittent Addition: For continuous addition (dosing) for RO systems, use 2-5 ppm of active peroxyacetic acid, which equals 1.5-3.7 fl. oz. of this product per 1000 gallons of process water. For occasional intermittent feed, do not exceed 93 ppm active peroxyacetic acid, which equals 0.7 fl. oz. of this product per 10 gallons of feed water. Continuous or intermittent dosing of this product is not allowed for use in NF or UF systems for on-line food or drinking water applications.

NOTE: This product at its use dilution is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

BIOFOULING CONTROL IN PULP, PAPER AND PAPERBOARD MILL AND WATER SYSTEMS

Not a use registered by California

For use in the manufacture of paper and paperboard intended for food or non food contact. This product can be used to control bacteria and fungi in paper, paperboard or non-woven process water and influent water systems. Suitable dosing points include but are not limited to: stock chests, pulpers, the white water loop, white water storage systems and influent water streams.

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Influent Water Systems: This product should be fed continuously to incoming fresh water streams (nonpotable use only) at dosages ranging from 0.11- 2.0 lbs (1.5-27 fl. oz.) of this product per 1000 gallons of raw or process water (2.0-36 ppm peroxyacetic acid). Adjust dosage as necessary to maintain microbiological control.

Mill Process Waters: Intermittent Feed - This product may be fed intermittently (for example: 2-3 hours per 8 hour shift) at dosages ranging from 0.5 lbs to 1.2 lb (7-16 fl. oz.) of this product per ton (dry basis) of pulp or paper produced. This dosage is equivalent to 37-90 ppm peroxyacetic acid. Repeat as necessary when the peroxyacetic acid concentration reaches less than 2 ppm.

Continuous Feed - This product should be fed continuously at dosages ranging from 0.11-1.2 lbs (1.5-16 fl. oz.) of this product per ton (dry basis) of pulp or paper produced. This dosage is equivalent to 8.0-90 ppm peroxyacetic acid.

Shock (slug) Dose - This product may be used to shock dose systems requiring a high level of biofouling control. Use rates ranging from 1-8 lbs (13.5-108 fl. oz.) of this product per ton (dry basis) of pulp or paper produced may be necessary. This dosage is equivalent to 75-600 ppm peroxyacetic acid. Shock dose every 1-3 hrs as necessary until biofouling control is evident. Thereafter, revert to continuous or intermittent feed methods.

CONTROL OF SLIME FORMING BACTERIA AND BIOFOULING IN ONCE-THROUGH AND RECIRCULATING COOLING WATER (COOLING TOWERS, EVAPORATIVE CONDENSERS, AIR WASHERS) AND ORNAMENTAL OR RECREATIONAL WATER FEATURES

Severely fouled systems must be cleaned before adding this product. This product must be added in the water system directly, and not mixed with any other chemicals or additives. Never add this product into any feeding device, such as shot feeders, filter housings, by-pass feeders, or miscellaneous piping of any kind, because dangerous acute decomposition can occur. Discontinue the use of chlorine or bromine products prior to using this product. Contamination with other chemicals could result in product decomposition. Add this product to only water at a point in the system where uniform mixing and even distribution will occur.

For shock (slug) treatment for moderately to severely fouled systems add 5-20 fl. oz. of this product per 1000 gallons of process water (7-27 ppm peroxyacetic acid). Repeat as necessary until microbiological control is evident.

Thereafter, to maintain control use (1.5-7.5 fl. oz.) of this product per 1000 gallons of process water (2-10 ppm of peroxyacetic acid) as a continuous treatment method. Continuous dosing methods usually require 1.5-5 fl. oz. per 1000 gallons of water (2-7 ppm peroxyacetic acid) to achieve adequate results.

Intermittent dosing treatment usually require dose cycles of a minimum once per every other day, up to 6 times per 24 hours. Recommended rates for intermittent dose cycles are 5-10 fl. oz of this product per 1000 gallons of process water (7-14 ppm peroxyacetic acid).

CLEANING: To remove sessile bacteria from cooling systems it is necessary to clean slime and slime-forming bacteria from the surfaces of all areas of water contact. This can be accomplished by treating the recycled water with 2.8-8.3 lbs. (37-112 fl oz.) of this product per 1000 gal of water (50-150 ppm active peroxyacetic acid) for 4-8 hours during normal tower operating cycles. This procedure can be used for online or offline cleaning. When finished, bleed down the system until the PAA level is <5-10 ppm, then normal chlorine or bromine or PAA treatments can begin. This treatment must be done at least once or twice each year depending on exposure conditions.

Air Washers: This product may be used to control bacteria and biofouling in industrial air washing/scrubbing systems. The air washer must have operational and effective mist elimination systems. Prior to use of this product, heavily fouled systems must be pre-cleaned using the appropriate cleaner. Continuous dosing methods will require 2-7 ppm and intermittent dosing methods require 7-14 ppm (as peroxyacetic acid), as described in the previous 2 paragraphs, depending on the type of system and the level of microbiological control desired.

Evaporated or Condensed Water: This product may be used to treat SWEET or COW water (e.g. condensate of whey) collected from evaporated or condensing water systems in food or dairy plants. Continuous dosing methods will require 2-7 ppm and intermittent dosing methods require 7-14 ppm (as peroxyacetic acid) as described in the previous paragraph, depending on the type of system and the level of microbiological control desired.

FOR MICROBIAL CONTROL IN EFFLUENT TREATMENT SYSTEMS

Use this product to treat non-public health microorganisms or pathogens in accordance with permits issued to sewage and wastewater effluent treatment facilities by federal, state, county, or city regulators. This product may be

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applied alone at any point in the treatment train, such as debulking control, or may effectively be used in conjunction with other systems, such as Ultra Violet (UV) light. Doses for UV systems will typically be 1-4 ppm (as active PAA). Initially apply this product at the rate of 3-146 gal per million gallons of water to be treated (0.5-25 ppm as peracetic acid). The PAA dosage will depend on the quality of water, contact (holding) time, and the degree of microbial control necessary. The PAA concentration will rapidly decline after treatment, but the maximum amount of PAA that may be discharged into the receiving body of water is limited to 1 ppm as active PAA, or as required for local discharge requirements. Consult your Enviro Tech representative for recommendations regarding an accurate test kit or on-line analyzer.

OIL, GAS AND SECONDARY OIL RECOVERY SYSTEMS, DRILLING MUDS, FRACTURING FLUIDS, PACKING FLUID, INJECTION WATER AND FLOODWATER

This product may be used to treat water used in primary or secondary oil and gas recovery systems to control anaerobic sulfide-forming bacteria and aerobic slime-forming bacteria. This product may be used in fresh or recycled water, secondary recovery systems, muds or fluids. This product controls non-public health biofilm and slime deposits on products associated with oilfield and gasfield systems which are susceptible to contamination. It also controls slime deposits downhole in water-bottoms. Add sufficient amount of this product to achieve satisfactory biological control. Initial recommended dosing levels of 5 to 100 ppm as active peroxyacetic acid are suggested. A dosage of 3.75 fl. oz. per 1000 gallons of water yields approximately 5 ppm of peroxyacetic acid.

POST-HARVEST TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS [(FLUME WATER)]

This product can be used in water that contacts raw or fresh, post-harvest or further processed fruits and vegetable for the control of spoilage and decay causing bacteria and fungi in commercial operations and packinghouses. When used as directed, the product will reduce 99.9% of the pathogens *Escherichia coli* O157:H7 [(ATCC 43895, 35150, 43890)], *Listeria monocytogenes* [(ATCC 49594, 19114, 19116)] and *Salmonella enterica* [(ATCC 10721, 6962, 13311)].

Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product to no more than 500 ppm residual peroxyacetic acid to the use solution in accordance with Food Contact Notification #2291, effective July 25, 2023. This can be accomplished by initially adding 3.8 fl. oz. per 10 gallons of water. The general recommended concentration is between 30-300 ppm as peroxyacetic acid (0.23-2.3 fl. oz. per 10 gallons of water). The final concentration necessary to accomplish the intended task will vary from plant-to-plant. For 99.9% reduction of pathogens *Escherichia coli* O157:H7 [(ATCC 43895, 35150, 43890)], *Listeria monocytogenes* [(ATCC 49594, 19114, 19116)] and *Salmonella enterica* [(ATCC 10721, 6962, 13311)], the minimum recommended concentration is 50 ppm as peroxyacetic acid (0.38 oz/10 gallons of water). The fruits and vegetables can be continuously sprayed or submerged (dipped) in the resulting solution. Periodic or continuous additions of this product to maintain the required concentration may be added as necessary. It is also recommended to apply this product during the washing, chilling, or physical cleaning processes, including the roller-spreader, washer or brush washer manifold, dip tank, or sorting processes. Contact time of 85 seconds is recommended to ensure efficacy. A potable water rinse is not required. Prepare a fresh solution daily or when it becomes soiled or diluted.

CONTROL OF SPOILAGE AND DECAY CAUSING ORGANISMS IN PROCESS WATERS:

This product can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables (in accordance with FCN 2291) for the control of spoilage and decay causing non-public health bacteria and fungi in commercial operations and packinghouses.

Fogging: (Not a use registered by California): To control spoilage causing non-public health microorganisms for raw agricultural commodities and fresh cut produce in storage areas or coolers, commercially-applied fogging methods may be used provided the dilution rates of the resultant solution does not exceed those prescribed in this section (3.8 fl. oz. per 10 gal of water). A potable water rinse is not required. Conventional corrosion-resistant fogging devices are recommended. Vacate the area of all personnel prior to, during and after fogging until the total peroxide concentration is below 1.0 ppm, or there is no strong odor present, characteristic of acetic acid.

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TREATMENT OF HARVEST POTATOES

Not a use registered by California

To control, treat or suppress the bacterial and fungal diseases: silver scurf, late blight, pink rot, early blight, bacterial soft rot. This product can be applied by dip or spray on harvested potatoes going into storage. Use 0.8-1.6 fl. oz. of this product per five gallons of clean water. Do not reuse already mixed solution; make fresh daily. If applying diluted solution via spray, spray over potatoes to achieve full and even coverage. Ensure full contact on all surfaces for 45 seconds.

POULTRY, SWINE, LIVESTOCK WATERING OPERATING SYSTEMS

After watering lines have been cleaned, use this product at 0.3-42 fl. oz. per 100 gallons of water (4-559 ppm as peroxyacetic acid) to control algae and bacteria in drinking water and to control mineral build up in watering lines. Stop the use of this product twenty-four [(24)] hours prior to vaccination via the water line.

ANIMAL PREMISES

This product is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, this product is specifically designed to disinfect, deodorize and clean inanimate, hard, non-porous surfaces such as walls, floors, sink tops, furniture, operating tables, kennel runs, cages and feeding equipment. In addition, this product will deodorize those areas which are generally difficult to keep smelling fresh, such as garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors caused by microorganisms.

Disinfection of Poultry Premises, Trucks, Coops and Crates: For visibly soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use. Remove all poultry and feeds from premises, trucks, coops and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a detergent and rinse with water. Saturate surfaces with a 0.16-0.61% v/v (1.0-3.9 fl. oz. per 5 gal of water) solution of this product for a period of 10 minutes. This is equivalent to 266-1036 ppm PAA and 390-1520 ppm H₂O₂. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with a detergent and rinse with potable water before reuse. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse. See your technical representative for specific recommendations for all cleaning and rinsing requirements.

Disinfection and Deodorizing of Animal Housing Facilities (Barns, Kennels, Hutches, Etc.): Remove animals and feed from premises, vehicles, and enclosures. Remove litter, waste matter from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering equipment. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate hard, non-porous surfaces by applying a 0.16-0.61% v/v (1.0-3.9 fl. oz. per 5 gal of water) solution of this product with a mop, brush or spray. This is equivalent to 266-1036 ppm PAA and 390-1520 ppm H₂O₂. Wet all surfaces and allow to remain wet for 10 minutes. Immerse hard, non-porous surfaces such as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

Commercial Agricultural or Industrial Water System Injection for the Oxidation of Odors When They Form: In well systems, inject this product with a peristaltic pump through a 1/4 inch plastic tube (or other comparable injection system) inserted into the well all the way to the well intake screens. Test the most distant faucet a hydrogen peroxide test strip until a residual of 20-25 ppm hydrogen peroxide is detected indicating that the system has been thoroughly treated. Adjust the injection pump to deliver 25 ppm on a consistent basis to the water system. When treating the watering system for sick animals, test the most distant faucet with a hydrogen peroxide test strip until a residual of 100-1,000 ppm hydrogen peroxide is detected indicating that the system has been thoroughly treated. When this

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level is reached, immediately reduce the injection until the test strip indicates the 25 ppm hydrogen peroxide is reached and the system is maintained at the 25 ppm level. This process can be repeated monthly to ensure a clean water system and avoid screen clogging.

Cleaning Poultry and Livestock Drinking Water Lines:

For drinking water lines using holding tanks make a stock solution by one of the following methods:

- Drinking water lines 500 feet in length or less: mix 0.78 gallons (100 fl. oz.) of this product with 100 gallons of water.
- Drinking water lines exceeding 500 feet in length: mix 1.55 gallons (200 fl. oz.) of this product with 200 gallons of water.

Pump the stock solution, completely filling the drinking water lines.

If the drinking water lines are not supplied by water from holding tanks, prepare a stock solution by one of the following methods:

- Mix 0.38 gallons (49 fl. oz.) of this product with 49 gallons of water in a 50 gallon tank, pumping this solution into the water line, repeating the process as often as needed, until water line is filled.
- Fill the water line, using a proportioner, set to inject this product undiluted at a rate of 1:128 (0.78%).

After the waterline is filled with the stock solution, activate nipple drinkers to ensure contact with drinkers.

Allow the stock solution to remain in the water lines for 24–48 hours.

Flush lines with fresh water until water is visibly clear.

Always make a fresh stock solution before use.

STORAGE AND DISPOSAL

Storage: Never return this product to the original container after it has been removed. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, spray container with cool water and dilute this product with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F.

Procedure for Leak or Spill: Stop leak if this can be done without risk. Shut off ignition sources: no flames, smoking, flares, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material must not enter confined spaces.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system in accordance with all local, state and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies must be contacted prior to disposal. This product which is to be discarded, must be disposed of as hazardous waste after contacting the appropriate local State or Federal agency to determine proper procedures.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Offer for recycling, if available. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Container Handling: (Containers equal to or less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

[Bracketed information is optional text.]

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BioSide™ HS 15%

(Antimicrobial Solution)

Manufactured By:

ENVIRO TECH CHEMICAL SERVICES, Inc.

500 Winmoore Way

Modesto, CA 95358 209-581-9576

www.envirotech.com

24 Hour Emergency Number: 1-800-424-9300 (CCN864796)



Sublabel B: Agricultural Uses

BioSide™ HS 15% (Antimicrobial Solution)

[Peragreen 15%] [This product] is a peroxyacetic acid-based antimicrobial solution developed for [Bacteria], [Fungi], [Slime and Odor Control] in [Fruit and Vegetable Process Water Systems], [Irrigation Water Treatment], [and] [Agricultural Water Treatment Systems].

Active Ingredients:

Peroxyacetic Acid	15.0%
Hydrogen Peroxide	22.0%

Inert Ingredients: 63.0%

Total: 100.0%

EPA Registration No. 63838-2

EPA Est. No. [63838-CA-01] [63838-AR-001]

Before Using This Product, Please Read This Entire Label Carefully

KEEP OUT OF REACH OF CHILDREN

DANGER-PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front panel of the product label.

FIRST AID

IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none">• Move person to fresh air. <p>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</p> <ul style="list-style-type: none">• Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
QUESTIONS ? 1-209-581-9576	Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured By:

ENVIRO TECH CHEMICAL SERVICES, Inc.
500 Winmoore Way, Modesto, CA 95358
209-581-9576 or www.envirotech.com

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER CORROSIVE: Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, rubber gloves and protective clothing with long sleeves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse. Do not enter an enclosed area without proper respiratory protection, or when uncoupling of product transfer hoses. Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination N1, R, or P filters; or a NIOSH-approved gas mask with OV canisters; or a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters when handling concentrate product.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. CORROSIVE: [Mix only with water below 140° F.] Product must be diluted in accordance with label directions prior to use. This product is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

PERSONAL PROTECTIVE EQUIPMENT

Handlers who may be exposed to the undiluted product through mixing, loading, application, or other tasks must wear: coveralls over long-sleeved shirt and long pants, rubber gloves, chemical resistant footwear plus socks, and protective eyewear (goggles or face shield).

Handlers who may be exposed to the diluted product through application or other tasks must wear: long-sleeved shirt and long pants, and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, fish and aquatic invertebrates. Caution must be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollutant Discharge System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage plant authority.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted-Entry Interval (REI). The requirements in this box only apply to the uses of this product that are covered by the Workers Protection Standard.

There is a restricted entry of zero (0) hours for this product.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are **not** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

Note: All volumes given in ounces are fluid ounces. When used according to the directions for use, this product is compatible with plastic, stainless steel and aluminum surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

POST-HARVEST TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS [(FLUME WATER)]

This product can be used in water that contacts raw or fresh, post-harvest or further processed fruits and vegetable for the control of spoilage and decay causing bacteria and fungi in commercial operations and packinghouses. When used as directed, the product will reduce 99.9% of the pathogens *Escherichia coli* O157:H7 [(ATCC 43895, 35150, 43890)], *Listeria monocytogenes* [(ATCC 49594, 19114, 19116)] and *Salmonella enterica* [(ATCC 10721, 6962, 13311)].

Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersion method. Add this product to no more than 500 ppm residual peroxyacetic acid to the use solution in accordance with Food Contact Notification #2291, effective July 25, 2023. This can be accomplished by initially adding 3.8 fl. oz. per 10 gallons of water. The general recommended concentration is between 30-300 ppm as peroxyacetic acid (0.23-2.3 fl. oz. per 10 gallons of water). The final concentration necessary to accomplish the intended task will vary from plant-to-plant. For 99.9% reduction of pathogens *Escherichia coli* O157:H7 [(ATCC 43895, 35150, 43890)], *Listeria monocytogenes* [(ATCC 49594, 19114, 19116)] and *Salmonella enterica* [(ATCC 10721, 6962, 13311)], the minimum recommended concentration is 50 ppm as peroxyacetic acid (0.38 oz/10 gallons of water). The fruits and vegetables can be continuously sprayed or submerged (dipped) in the resulting solution. Periodic or continuous additions of this product to maintain the required concentration may be added as necessary. It is also recommended to apply this product during the washing, chilling, or physical cleaning processes, including the roller-spreader, washer or brush washer manifold, dip tank, or sorting processes. Contact time of 85 seconds is recommended to ensure efficacy. A potable water rinse is not required. Prepare a fresh solution daily or when it becomes soiled or diluted.

CONTROL OF SPOILAGE AND DECAY CAUSING ORGANISMS IN PROCESS WATERS:

This product can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables (in accordance with FCN 2291) for the control of spoilage and decay causing non-public health bacteria and fungi in commercial operations and packinghouses.

Fogging: (Not a use registered by California): To control spoilage causing non-public health microorganisms for raw agricultural commodities and fresh cut produce in storage areas or coolers, commercially-applied fogging methods may be used provided the dilution rates of the resultant solution does not exceed those prescribed in this section (3.8 fl. oz. per 10 gal of water). A potable water rinse is not required. Conventional corrosion-resistant fogging devices are recommended. Vacate the area of all personnel prior to, during and after fogging until the total peroxide concentration is below 1.0 ppm, or there is no strong odor present, characteristic of acetic acid.

TREATMENT OF HARVEST POTATOES

Not a use registered by California

To control, treat or suppress the bacterial and fungal diseases: silver scurf, late blight, pink rot, early blight, bacterial soft rot, This product can be applied by dip or spray on harvested potatoes going into storage. Use 0.8-1.6 fl. oz. of this product per five gallons of clean water. Do not reuse already mixed solution; make fresh daily. If applying diluted solution via spray, spray over potatoes to achieve full and even coverage. Ensure full contact on all surfaces for 45 seconds.

[Bracketed information is optional text.]

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POULTRY, SWINE, LIVESTOCK WATERING OPERATING SYSTEMS

After watering lines have been cleaned, use this product at 0.3-42 fl. oz. per 100 gallons of water (4-559 ppm as peroxyacetic acid) to control algae and bacteria in drinking water and to control mineral build up in watering lines. Stop the use of this product twenty-four (24) hours prior to vaccination via the water line.

AGRICULTURAL or HORTICULTURAL USES

There is a Restricted-Entry-Interval of zero (0) hours after the use of this product. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxyacetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to ensure thorough mixing. If open pouring of this product is required pour product as close to the surface of the water as possible to reduce odor exposure. Spray lines, hoses and tank must be clean before using this product. Make sure no iron or yellow metals are in contact with the spray solution at any time. Only stainless steel or plastic contact materials may be used in your spray rig.

[Compatibility:

This product is compatible as a direct injection or tank-mix with many commonly used pesticides, fertilizers, adjuvants and non-ionic surfactants but has not been fully evaluated with all of these. Do not direct inject or tank mix this product in to the irrigation system or in spray tank with pesticides, surfactants or fertilizers before conducting a compatibility test to show it is physically compatible, effective and noninjurious under your use conditions. Do not tank mix this product with copper or other pesticides containing metals at a dilution rate stronger than 1:100.

To ensure compatibility, evaluate them prior to use as follows: Using a suitable container, add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. Test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application.]

[Phytotoxicity Test Procedure:

1. Select healthy typical plants of each cultivar or type on which the pesticide will be used.
2. Read the pesticide label to determine the application site (roots or leaves), the rate of application (amount per gallon/liter), and the interval of application (number of days between application).
3. Use clean spray equipment and perform the test during the time of day when most of your pesticide applications will occur.
4. Have one control set of plants which are sprayed with water only. Control sprayed plants must be sprayed under the same conditions as pesticide-sprayed plants.
5. Wait for signs of phytotoxicity before determining that a pesticide is safe. Phytotoxic effects can range from slight burning or browning of leaves to death of the plant. Sometimes damage appears as distorted leaves, fruit, flowers, or stems.]

Treatment of Agricultural or Irrigation Water Systems: (sand filters, humidification systems, storage tanks, ponds, reservoirs, canals) (Not for use in New York): For the control of sulfides, odor, slime and algae in water systems, apply this product at 2-10 ppm active peroxyacetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxyacetic acid).

Pre-harvest Irrigation Water Treatment:

Use at the rate of 0.52 fl. oz. – 0.75 fl. oz. (7-10 ppm of peracetic acid) per 100 gallons of irrigation water with a minimum contact time of 5 minutes to kill up to 99.9% of *Escherichia coli* [E.coli] and *Salmonella enterica* [Salmonella] during pre-harvest irrigation cycles of crops. Use this product on any crop during all phases of crop production including pre-plant irrigation and throughout the crop cycle.

Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxyacetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. After an irrigation cycle do not flush the lines. Heavily fouled systems may need shock doses of up to 100 ppm as peroxyacetic acid (75 fl. oz. per 1000 gallons of water)

Greenhouses: This product can be used to suppress/control algae and slime formations in and around greenhouses. For normal use in various process, irrigation or sprinkler water systems, this product may be used at 1:40,000 to 1:5000 dilutions (4-33 ppm as peroxyacetic acid). Heavily fouled systems, such as evaporative coolers or irrigation/drip lines may need shock doses of up to 100 ppm as peroxyacetic acid (1:1,600 dilution).

Pre-Plant Dip Treatment:

Not a use registered by California

Use this product for the control of damping-off, root disease and stem rot disease caused by *Pythium* (root rot) – *Phytophthora* (blights, rots) – *Rhizoctonia* (blight, stem rot) *Fusarium* (root-rot, leaf spot, Pink Snow Mold) – *Thielaviopsis* (black root rot), on seeds, seedlings, bulbs, or cuttings. Remove dead or dying foliage prior to dipping.

1. Use 7.4 fl. oz. per 50 gallons of water.
2. Immerse plants or cuttings; remove and allow to drain. Do not rinse.
3. Excessive foaming or bubbling during the dipping process is an indication of high levels of disease contamination.

Seed Treatment:

Not a use registered by California

Use this product for the control of damping-off, root disease and stem rot disease caused by *Pythium* (root rot) – *Phytophthora* (blights, rots) – *Rhizoctonia* (blight, stem rot) *Fusarium* (root-rot, leaf spot, Pink Snow Mold) – *Thielaviopsis* (black root rot), on seeds of seed sprout crops such as mung bean, red clover, soybeans and alfalfa, and on crops grown exclusively for seed for planting.

1. Use 7.4 fl. oz. per 50 gallons of water.
2. Immerse seeds and let soak for two minutes; remove and allow to drain. Do not rinse. Plant seed according to seed package directions.

Soil Applications:

Not a use registered by California

Use this product at 16.4-33 fl. oz. per 100 gal of water (220-440 ppm active peroxyacetic acid) for the control of soil-borne diseases such as *Fusarium*, *Phytophthora*, *Pythium*, *Verticillium*, *Thielaviopsis*, and *Rhizoctonia*. This product can be applied by drench, flood, drip or sprinkler irrigation systems. Best results may be obtained by application prior to and during the seeding or transplant operations. Wait one day before inoculating the soil with beneficial microbes.

Foliar Applications:

Not a use registered by California

This product may be used to cure or prevent bacterial and fungal diseases on growing agricultural crops, including all grains, herbs, spices, row crops, berries, fruit and nut trees, vines (such as grapes) and tobacco. Typical use rates are 5.8-49.5 fl. oz. of this product per 100 gal of water (77-663 ppm active peroxyacetic acid) applied at 30–100 gal of mixed solution per acre of foliage. Curative (or rescue) treatment requires the lower dilution rates, while preventative treatments use the higher dilution rates. Apply curative treatments for 2-3 days and then resume weekly preventative treatments thereafter. Good coverage and wetting of the foliage is required. Not all plant diseases have been tested, but some of the common diseases controlled are: Algae, *Alternaria* spp., Anthracnose, *Aphanomyces*, Bacterial Blight, Black Spot, Botrytis (gray mold), Brown Spot, Copper Spot, Dollar Spot, Early and Late Blights, *Erwinia* spp. (such as bacterial wilt), Fairy Ring, *Fusarium* Root Rot and Blight, Fruit, Black, Brown, Stem and Sour Rots, Leaf and Bacterial Spots, *Plasmopara*, Powdery and Downy mildews, *Phytophthora* Blight/Rots, Pink Snow Mold, *Pseudomonas* and *Xanthomonas* spp. (such as bacterial angular leaf spot, bacterial leaf spec, black soft rot), *Pythium* spp., *Rhizoctonia* spp., Rusts, Scabs, Scum, Slime Molds, Smut, Summer Patch, Stripe Smut, Take-all Patch, and *Thielaviopsis*.

A nonionic spreader (surfactant) adjuvant is recommended. Contact your local supplier or farm supply.

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STORAGE AND DISPOSAL

Storage: Never return this product to the original container after it has been removed. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of a decomposition, isolate container, spray container with cool water and dilute this product with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F.

Procedure for Leak or Spill: Stop leak if this can be done without risk. Shut off ignition sources: no flames, smoking, flares, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material must not enter confined spaces.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system in accordance with all local, state and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies must be contacted prior to disposal. This product which is to be discarded, must be disposed of as hazardous waste after contacting the appropriate local State or Federal agency to determine proper procedures.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Offer for recycling, if available. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Container Handling: (Containers equal to or less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

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