



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 14, 2026

Michael Harvey
President/CEO
BlueTech Laboratories, Inc.

Tina Rodrigues
Consultant
VirtuReg

Electronic Transmittal: mharvey@engaviation.com and trodrigues@virtureg.com

Subject: PRIA Label Amendment – Formulation modifications and additions to the master label
Product Name: Oxy 5
EPA Registration Number: 91209-1
Received Date: 2/12/2025
Action Case Number: 00643891

Dear Michael Harvey and Tina Rodrigues:

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.

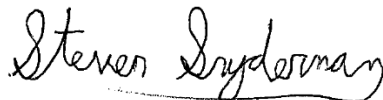
Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated 1/24/2025
- Alternate CSF 1 dated 1/24/2025
- Alternate CSF 2 dated 1/24/2025
- Alternate CSF 3 dated 1/24/2025

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 Kasey Chambers via email at chambers.katelyn@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Steven Snyderman". The signature is written in a cursive, flowing style.

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

Enclosure: Stamped Final Label

Oxy 5™

- This Product is a Peroxygen-Based Product Developed for:
- Food and Non-Food Production, Animal Premises, Agricultural Waters, Recirculating Waters,
- RO Membranes, Filter Media, and Biopesticide for Greenhouses, Washing Fruits and Produce, Pre and Post Harvest Uses.

FOR COMMERCIAL USE ONLY

Active Ingredients:

Hydrogen Peroxide:27.0%
Peracetic acid:5.6%
Inert Ingredients:67.4%
Total:..... 100.0%

EPA Registration No. 91209-1

EPA Establishment No.

Manufactured for:

BlueTech Laboratories, Inc.

11700 Preston Rd, Ste 660-294, Dallas, TX 75230

ACCEPTED

01/14/2026

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 91209-1

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...

- 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...

- 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 swallowed...

- Call 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 the poison control center.
- Do not give anything by mouth to an unconscious person.

If inhaled...

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, give them artificial respiration, preferably mouth to mouth if possible.
- Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN:

Probable mucosa! damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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, coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear with sock, and rubber gloves (barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or natural rubber or polyethylene or PVC or EPDM, Category A) when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PHYSICAL AND CHEMICAL HAZARDS

Corrosive: Strong oxidizing agent. Do not use in concentrated form. Mix only with water in accordance with label instructions. Never allow concentrate in contact with other pesticides, cleaners or oxidative agents. 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 Pollution 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.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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.

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, zinc, iron and copper 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: Refillable Container. For Bulk plastic containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Return container if

possible to point of sale.

{Reviewer: An exact replica of the Directions for Use may be attached separately as a booklet on the container, separate from the Market label}

{EPA Reg. No. 91209-1}

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 the label (in this labeling) about (use any of the following that are applicable) personal protective equipment, restricted-entry interval, and notification to workers.

There is a restricted entry of one (1) hour for this product when applied via fogging or spraying to growing plants, surfaces, equipment, structures and non-porous surfaces in enclosed environments such as glasshouses and greenhouses. PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is coveralls worn over long-sleeved shirt and pants, waterproof gloves and shoes plus socks. For greenhouse applications, notify workers of the application by warning them orally and by posting warning signs outside all entrances to the greenhouse.

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.

[This product works best when diluted with water containing minimal levels of organic or inorganic materials, and with water having a neutral pH. Thoroughly rinse out tank with water before mixing concentrate. This product will readily mix with clean, neutral water and does not require agitation.]

[This product concentrate should not be combined or mixed with any other pesticide concentrates.]

USE SITES AND LOCATIONS

- Airline terminals, airports, bus stations, train stations, transportation terminals, public facilities, shipping terminals, travel rest areas, waysides
- Automobiles, cars, trucks, campers, RVs, trailers, automotive garages, auto repair centers, bicycle shops
- Boats, ships, barges, cruise lines, cruise ships, watercrafts
- Boxcars, tankers, and tank trucks
- Buses, public transportation, trains, taxis, airplanes, helicopters
- Delivery trucks, garbage trucks, maintenance vehicles
- EMS & fire facilities, emergency vehicles, ambulances, police cars, fire trucks
- Police stations, crime scenes, courthouses, correctional facilities, municipal government buildings, prisons, jails, penitentiaries, correctional institutions
- Recycling centers
- Athletic facilities, locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, field houses
- Banks, churches, libraries, post offices
- Campgrounds, playgrounds, recreational facilities, picnic facilities
- Day care centers, child nurseries, kindergartens, and preschools
- Funeral homes, morgues, mortuaries, burial vaults, mausoleums, cadaver processing areas
- Hotels, motels
- Museums, art galleries, performance/theater centers, movie houses, bowling alleys
- Restaurants, bars, kitchens, taverns, cafeterias, institutional kitchens, fast food operations, food storage areas, catering, bakeries

- Schools, colleges, dormitories, classrooms, community colleges, universities
- Sports arenas, sports complexes
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms, photocopy centers
- Veterinary clinics, animal life science laboratories, animal laboratories, animal research centers, animal quarantine areas, animal holding areas, equine farms, animal kennels, animal breeding facilities, breeding establishments, animal husbandry establishments, grooming establishments, pet animal quarters, animal housing facilities, zoos, tack shops, pet shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities
- Businesses, office buildings, workstations, break rooms, public restrooms, housekeeping, janitorial rooms
- Commercial recirculating cooling water towers
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities
- Factories, computer manufacturing sites, toy factories, warehouses
- Institutional, commercial, industrial, institutions, commercial sites, industrial sites, institutional facilities, public places
- Laboratories
- Basements, cellars, bedrooms, attics, garages, living rooms, and porches
- Bathrooms, restrooms, shower rooms, shower and bath areas
- Kitchens and bathrooms and other household areas
- Breweries, canneries, cheese factories
- Bottle washing premises
- Dairy, equine, poultry/turkey farms
- Farmhouses, barns, sheds, tool sheds, cattle, swine, sheep or horse barns, pens and stalls, swine quarters, livestock farms, equine quarters, brooder houses, seed houses and veal, calving, hog, cattle and horse operations, chick vans, egg trucks, hatchery and farm vehicles
- Federally inspected meat and poultry plants
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores, wineries
- Food handling and processing areas
- Food processing plants, USDA inspected food-processing facilities, federally inspected meat and poultry plants, egg processing plants, poultry and turkey farms, farms, dairy farms, hog farms, meat/poultry processing plants, rendering plants, poultry and animal dressing plants, canneries, meat packing plants, hide and leather processing plants
- Poultry premises and hatcheries:

Egg receiving area	Tray dumping area	Chick processing area
Egg holding area	Chick holding area	Chick loading area
Setter room	Hatchery room	Poultry buildings
- Processing facilities for fish, milk, citrus, wine, fruits, vegetables, cereal grains, ice cream and potato and beverage plants
- Swine premises:

Farrowing barns and areas	Dressing plants	Blocks
Waters and feeders	Loading equipment	Creep area
Hauling equipment	Nursery	Chutes area
- Tobacco plant premises
- Life care retirement communities, elder care centers, elder care facilities

Water Treatment Use Sites

- Commercial recirculating cooling water towers
- Industrial and/or commercial recirculating cooling towers.
- Recirculating water systems
- Retort water systems
- Water cooling systems
- Livestock and poultry drinking water lines
- Irrigation systems for preharvest
- Process water for non-potable water systems
- Water filter media, membranes and components
- Reverse osmosis, UF and membrane cleaning and treatment
- Greenhouse water systems, surfaces and equipment
- Post harvest treatment of fruits and vegetables

[MATERIAL COMPATIBILITY

Not recommended for use on copper, brass, iron, granite, marble, or zinc. Do not use on unsealed/uncoated marble or

unsealed/uncoated terrazzo floors.]

SANITIZATION

This peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, filters, evaporators, pasteurizers, and aseptic equipment in dairies, breweries, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, belts, conveyors and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO₃. However, it is generally accepted that water hardness has minimal effect on peracetic acid-based sanitizers/disinfectants.

This product has demonstrated greater than 99.999% reduction of organisms after 60 seconds exposure period on food contact surfaces in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants study.

NOTE: For mechanical operations prepared use solution may not be reused for sanitizing but may be reused for other purposes such as cleaning. For manual operations fresh sanitizing solutions must be prepared daily or more often if the solution becomes diluted or soiled.

Sanitizing Food Contact Surfaces: This product can be used in Federally Inspected Meat and Poultry Facilities as a sanitizer. Prior to sanitizing, remove visible soil and gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 1.5-5 fl. oz. of this product diluted in 5 gallons of water (0.21%-0.8% v/v concentration, or 135-500 ppm active peroxyacetic acid). At this dilution this product is effective against gram positive and negative organisms such as *Staphylococcus aureus* ATCC 6538 and *Escherichia coli* ATCC 11229. Use immersion, spray or circulation techniques as appropriate to the equipment. All surfaces must remain visibly wet with the sanitizing solution for a period of at least 60 seconds or more if specified by a governing code. Drain any excess solution. Do not rinse.

Sanitizing 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 1.5-5 oz. per 5 gallons of water (135 to 500 ppm active peroxyacetic acid). Apply sanitizer solution to the return portion of the conveyor or equipment using spray or similar means of wetting surfaces, so as to affect draining and prevent puddling. Allow sanitizer to remain visibly wet on the surface for a minimum 60 seconds contact time. No rinse is needed.

Sanitizing of Casing or Shell Eggs: To sanitize clean shell eggs intended for food or food products, spray with a solution of this product by diluting 1.5-2 oz. product with 5 gallons of potable water (providing 135-197 ppm peroxyacetic acid). The solution must be equal to or warmer than the eggs, but not to exceed 130° F. Wet eggs thoroughly and allow to drain. Eggs that have been sanitized with this product may be broken for use in the manufacture of egg products without a prior potable water rinse. Eggs must be reasonably dry before casing or breaking. The sanitizing solution must not be reused for sanitizing eggs.

Sanitizing Eating, Drinking and Food Prep Utensils: Remove visible soil and gross food particles by a prescrape, a preflush and when necessary, a presoak treatment. Wash with a recommended detergent. Rinse with clean water. Sanitize using a solution of 1.5 oz. of this product diluted in 5 gallons of water. Immerse all utensils for at least 60 seconds or contact time specified by a governing sanitary code. Drain excess solution.

Sanitizing Tableware: For sanitizing tableware in low temperature warewashing machines, inject this product into the final rinse water at a concentration of 1.5 oz. of this product diluted in 5 gallons of water. Do not exceed 0.25 % v/v. Air dry. To ensure that this sanitizer concentration does not fall below 0.1%, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on sanitizing tableware in warewashing machines.

General Environmental Surface Sanitation of Non-Food Contact Surfaces: This product is an effective inanimate, hard, non-food contact surface sanitizer against *Staphylococcus aureus* (ATCC 6538) and *Klebsiella pneumoniae* (ATCC 4352). Sanitization of surfaces such as sealed floors, walls, tables, chairs, benches etc., can be accomplished using the following procedures: 1. Remove visible soil with a cleaner or other suitable detergent. 2. Add 1.5-12 fl. oz. of this product diluted in 5 gallons of water to prepare the solution. 3. Soak items in/with diluted solution using mop/wipe, coarse spray or flood techniques and allow contact for at least 5 minutes. 4. Allow items and/or surfaces to drain adequately or air dry or rinse with potable water.

Foam Cleaning of Food and Non-Food Contact Surfaces: As an adjunct to cleaning procedures this product may be blended with OXYFOAM™ and foamed on environmental or equipment surfaces using conventional foam-generating equipment. OXYFOAM™ is the only approved product that may be used. The resultant foam blend can be used on equipment, floors, walls, ceilings, drains, etc. and must be left on surface for a minimum of 1 minute or longer on food contact surfaces.

Food Contact Surface Cleaning Directions for Mixing: Manually or mechanically mix and blend 1.6-5 fl. oz. of this product and 6-12 fl. oz. of OXYFOAM™ (foam additive) per 5 gallons of water. The dilution water must not exceed

130°F. Concentrations of this product greater than 5 fl oz per 5 gal (1 fl oz/gal) of water may be used on food contact surfaces, but a potable water rinse is required. Allow to remain on the surface for 1 min or more. When used in organic production, a potable water rinse is required.

Non-Food Contact Surface Cleaning Directions for Mixing: Remove visible soil and rinse equipment. Manually or mechanically blend 1.5-12 fl. oz. of this product and 6-36 fl. oz. of OXYFOAM™ (foam additive) per 5 gallons of water. The dilution water must not exceed 130° F. When used in organic production, a potable water rinse is required.

Drain and Floor Applications Cleaning: For use in open or closed drains such as in food, beverage, dairy, pharma and health care industries. Manually or mechanically blend 4-12 fl. oz. of this product with 1.5-10 fl. oz. of OXYFOAM™ (foam additive) per gallon of water and foam surfaces thoroughly using conventional foam-generating equipment. The dilution water must not exceed 130° F. Allow product to contact the surface for at least 10 minutes or more. A water rinse is optional. When used in organic production, a potable water rinse is required.

Entryway Systems: To reduce cross-contamination on treated surfaces, shoe baths containing 1 inch of freshly made sanitizing solution must be placed at all entrances to buildings and at all the entrances to the production and packaging rooms. Scrape or brush waterproof shoes and place in use solution of 1.6-5 fl. oz. (155-500 ppm active PAA) per 5 gal. of water. Allow to remain visibly wet for 2 minutes prior to entering area. Prepare a fresh solution daily or when visibly dirty.

Foot Dips for Waterproof Footwear: Use this product at 1-2 fl. oz. per 2 gal. of water in foot dip tray. Shoe baths must contain at least 1 inch of freshly made solution and be placed at the entrances to buildings. Allow to remain visibly wet for 2 minutes before entering building {or while in entryways}. Prepare a fresh solution daily or when visibly dirty.

Gloved Hand Dip Sanitizer Directions: To reduce cross-contamination on treated surfaces, dip or soak pre-washed non-porous gloved hands in a suitable clean container that contains enough freshly made sanitizing solution at 2 fl. oz per gal to cover the gloved hand area. Do not let sanitizing solution come into contact with exposed skin. Gloved hands must remain visibly wet for at least 1 minute. Do not rinse. Prepare a fresh solution every shift or when visibly dirty.

Final Sanitizing Bottle Rinse: This product may be used as a final sanitizer rinse, followed by adequate draining, for returnable and non-returnable bottles at a 0.25%-0.8% dilution (1.6 fl. oz.-5 fl.oz. of this product in 5 gallons of water).

Antimicrobial Rinse of Precleaned or New Returnable or Non-Returnable Containers: To reduce the number of beverage spoilage organisms, use up to a 2% to 3% v/v solution, which equals 2.5-3.8 oz. to 1 gallon of water of this product at a temperature range of 46°-60° C for 15 seconds. After adequate draining, rinse interior container surfaces with sterile or potable water.

DISINFECTION OF HARD, NON-POROUS NON FOOD CONTACT HARD SURFACES

Combination Disinfection and Cleaning: This product may clean as it disinfects when used according to the appropriate disinfection directions shown below. This product can be used to disinfect sealed floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, shelves, racks, carts, room-temperature refrigerators and coolers, tile, linoleum, vinyl, glazed porcelain, and use sites on this label made of plastic, stainless steel, or glass. For areas of use is schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishments.

This product is effective against public health organisms such as Staphylococcus aureus ATCC 6538 and Salmonella enterica ATCC 10708 at 0.46%-3% v/v (3-20 oz. per 5 gal) in hard water (400 ppm as CaCO₃) and 5% organic soil loading on hard nonporous surfaces. For visibly soiled areas a pre-cleaning step is required, followed by a potable water rinse. Apply solution with a mop, cloth, sponge, brush, spray etc...or by soaking or immersion so as to wet all surfaces thoroughly. Allow to remain visibly wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup, or by draining.

Surfaces that may directly or indirectly contact food must be rinsed with potable water before operations resume. A rinse for non-food contact surfaces is optional. Prepare a fresh solution daily or when it becomes soiled or diluted.

Virucidal: This product is effective against Rhinovirus type 37, 151-1, (ATCC VR-1607), at 0.86%-7.8% v/v (1.1-10.0 oz. per 1 gal) in hard water (400 ppm as CaCO₃) and 5% organic soil loading on hard nonporous surfaces. For visibly soiled areas a pre-cleaning step is required, followed by a potable water rinse. Apply solution with a mop, cloth, sponge, brush, spray etc... or by soaking or immersion so as to wet all surfaces thoroughly. Allow to remain visibly wet for 2 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup, or by draining. Surfaces that may directly or indirectly contact food must be rinsed with potable water before operations resume. A rinse for non-food contact surfaces is optional. Prepare a fresh solution daily or when it becomes soiled or diluted.

DISINFECTION OF ANIMAL AND POULTRY PREMISES, TRUCKS, COOPS AND CRATES

This product is designed for use in 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, surfaces such as walls, floors, sink tops, furniture, kennel runs, cages and feeding equipment. In addition, this product will deodorize those areas which are generally hard 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: 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 0.46-1.25% v/v (3.0-8 fl oz. per 5 gal) solution of this product for a period of 10 minutes. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waters 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 surfaces by applying a 0.46% (3.0 fl oz. per 5 gal) solution of this product with a mop, brush or spray. Wet all surfaces and allow to remain visibly wet for 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well 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.

ALKALINE DETERGENT CLEANING ADJUNCT (Booster) for FOOD OR NON-FOOD EQUIPMENT SURFACES (NON_PUBLIC HEALTH); This product is an effective cleaning booster (hypochlorite alternative) for use with alkaline detergents. It may be used as a cleaning additive for Clean-In-Place (CIP) operations involving the circulation cleaning of pipelines, tanks, vessels, evaporators, pasteurizers, HTSTs, and other food processing equipment. For cleaning applications as a detergent booster, use 1–6 oz. per gallon of water, to assist in the removal of organic soils. All hard nonporous food contact surfaces treated with this boosted detergent must be thoroughly rinsed with potable water followed by sanitizing with an approved food contact surface sanitizer.

This product may be used to effectively inhibit the growth of slime and odors in process water caused by them at a rate of 0.5 fl. oz. in 1 gallon of water in general commercial environments.

This product effectively inhibits the growth of slime and odors caused by them when applied to hard non-porous surfaces (non-food contact surfaces), such as floors, walkways, walls, tables, chairs, benches, countertops, cabinets, bathroom fixtures, sinks, shelves, racks, crates, utility carts, trailers, vehicles, conveyors, refrigerators (exterior), fan blades, drains, piping, commercial, municipal, and process water transfer and handling systems, filler housings, tanks, pumps, valves and systems.

SLIME CONTROL ON HARD, NON-POROUS SURFACES

Use a rate of 0.5-2 fl. oz. per gallon for hard, non-porous surfaces, (non-food contact surfaces), that are lightly soiled or have been pre-rinsed to remove grass contamination. For visibly soiled hard non-porous surfaces, a pre-cleaning step is required.

Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device or by soaking so as to wet all surfaces thoroughly. Allow surface to remain wet for 10 minutes then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted. Repeat treatment every seven days, or more often if new growth appears.

Preventative Treatment: To inhibit surface slime and mildew growth on hard, non-porous surfaces in new or renovated building construction, mix this product at a rate of 0.5-2 fl. oz. in 1 gallon of water and apply evenly by paintbrush, airless sprayer, low pressure hand wand, or backpack sprayer. Assure uniform coverage of surfaces to be protected. Surfaces should be evenly wet without runoff or pooling. Allow surfaces to stay wet with solution for ten (10) minutes. Permit treated surfaces to be thoroughly dry before painting or affixing overlayment materials such as siding, wallboard or flooring. Repeat the application of this product as necessary if mold growth appears. If regrowth occurs, investigate to determine the causes and correct the problem prior to reapplication of this product. Slime may recur in conditions of persistently high humidity, standing water, or hidden water leaks.

Small Areas Total Surface Area Affected Less Than 10 Square Feet Cleanup Methods*

Prior to applying this product, clean the affected area using one of the following or another preferred professional method.

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragment will remain in the material but will not grow if the material is completely dried).

Method 2: Damp-wipe surfaces with plain water or use a wood floor cleaner; scrub as needed.

Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried.

Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

*Minimum personal protective equipment to be worn during clean up includes gloves, N-95 respirator and goggles/eye protection.

Other Construction Materials

Concrete or Cinder Block

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried).

Method 2: High-efficiency air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

Medium-Total Surface Area Affected Between 10 and 100 Square Feet Cleanup Methods*

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried).

Method 2: Damp-wipe surfaces with plain water or with wood floor cleaner; scrub as needed.

Method 3: High-efficiency particulate (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

*Limited or full personal protective equipment is recommended during cleanup. Limited personal protective equipment includes gloves, N-95 respirator with HEPA filter, disposable overalls, and goggles/eye protection. Full personal protective equipment includes gloves, disposable full body clothing, headgear, coat coverings, respirator with HEPA filter.

Other Construction Materials Concrete or Cinder Block

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried).

Method 2: High-efficiency particulate (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

Large-Total Surface Area Affected Greater Than 100 Square Feet or Potential for Increase Occupant or Remediate Exposure During Remediation Estimated to be Significant Cleanup Methods*

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried).

Method 2: Damp-wipe surfaces with plain water or with a wood floor or cleaner; scrub as needed.

Method 3: High-efficiency particulate (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

Method 4: Discard/remove water-damaged materials and seal in plastic bags while inside of containment, if present. Dispose of as normal waste. HEPA vacuum area after it is dried.

Other Construction Materials Concrete or cinder block Cleanup Methods*

Method 1: Wet vacuum in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried.

Method 2: High-efficiency particulate (HEPA) vacuum after the material has been thoroughly dried. Dispose of the content of the HEPA vacuum in well-sealed plastic bags.

*Gloves, disposable full body clothing, head- gear, coat coverings, full-lace respirator with HEPA filter are the recommended personal protective equipment.

*Select method most appropriate to situation. Since molds gradually destroy the things they grow on, if mold growth is not addressed promptly some items may be damaged such that cleaning will not restore their original appearance. If mold growth is heavy and items are valuable or important, you may wish to consult a restoration/water damage/remediation expert. Please note that these are guidelines; other cleaning methods may be preferred by some professionals.

Containment of Affected Materials Total Surface Area Affected Between 10 and 100 Square Ft (All Surfaces)

Use polyethylene sheeting ceiling to floor around affected area with a slit entry and covering wrap; maintain area under negative pressure with HEPA filtered fan unit. Block supply and return air vents within containment area.

Total Surface Area Affected Greater Than 100 Square FT or Potential for Increased Occupant or Remediation Exposure During Remediation Estimated to be Significant

Use two layers of fire-retardant polyethylene sheeting with one airlock chamber. Maintain area under negative pressure with HEPA filtered fan exhausted outside of building. Block supply and return air vents within containment area.

FOR WATER FILTER MEDIA, MEMBRANES AND RELATED COMPONENTS

This product is an effective antimicrobial product used for the reduction and removal of slime on the surfaces of the filter and membrane media, media housings, and related devices and equipment. It may be used for filler media or related system components or in Clean-in-Place (CIP) systems.

Treatment of filler media and membranes in potable water systems should be performed when system is NOT in use or online.

For filler media applications, use a rate of 0.1 - 1 fl. oz. per gallon, and allow to soak for ten (10) minutes. Drain filler media and then rinse with clean water. Prior to producing product water (Permeate), test a sample of the permeate using

PAA Test Strips to determine the level of active ingredients remaining in the permeate.

For clean in place (CIP) applications involving fillers, use a rate of 2.5 to 10.25 fl. oz. per 100 gallons. Recirculate solution for a minimum of 10 minutes. Upon completion of cleaning cycle, flush filler housings and/or assemblies with clean water. Test a sample of water being used to flush filler media with PAA Test kit or strips to determine levels of active ingredients remaining in the flush water.

For direct treatment of membranes, use a solution of 0.1 fl. oz. per 1 gallon of water, or 0.5 fl. oz. for 5 gallons of water, within a pH range of 3-7 and maximum water temperature of 80 degrees F. Allow the membranes to soak for a minimum of 10 minutes. Flush or rinse membranes with clean water after treatment. Test flush water with PAA Test Strips to determine remaining active ingredient levels.

For membrane CIP systems, use a dilution rate of 2.5 - 10.25 fl. oz. per 100 gallons within a pH of 3-7 and a maximum water temperature of 80 degrees F. After thorough draining of the solution, rinse the media thoroughly with clean or sterile water for a minimum of ten (10) minutes. Test sample of flush water with PAA test kit to determine remaining active ingredient levels.

To calculate the amount of product to be used for CIP systems, identify total volume of all tanks, vessels and piping. Prepare dilution based on sum of all identified tank, vessel and piping volumes.

CONTROL OF ALGAL AND SLIME-FORMING BACTERIAL GROWTH IN INDOOR, OPEN OR CLOSED LOOP, NON-POTABLE, NON- FOOD CONTACT WATER SYSTEMS

TREATMENT OF COOLING WATER SYSTEMS (such as cooling towers, evaporative condensers).

Severely fouled systems should be cleaned before treatment. **Discontinue use of chlorine or bromine product prior to using this product.** This product should be added to the system directly and not mixed with other chemicals or additives prior to dosing. Other chemicals should be added separately. Check compatibility of this product with any other chemicals or additives prior to use. Contamination with certain chemicals could result in lack of efficacy. Add this product at a point in the system where uniform mixing and even distribution will occur such as the cooling tower basin sump. Shock doses may be applied for 1 to 2 hours, as necessary, whereas intermittent doses are applied for 5 to 60 minutes 1 to 100 times per day.

For either shock, intermittent or continuous dosing, apply 4.5 to 22.5 fl. oz. of this product solution per 1,000 gallons of water. This will provide 25 to 176 ppm of this product, or 2 to 9 ppm of peroxyacetic acid. Repeat treatment as required to maintain control.

CONTROL OF ALGAL AND SLIME FORMING BACTERIAL GROWTH IN LIVESTOCK WATER

Stock Tanks and Livestock Water: Use this product to suppress/control algae, odor causing and slime-forming bacteria and sulfides in stock tanks, stock watering ponds, tanks and troughs, and livestock water. Apply 1.2 to 6.0 fluid ounces of this product per 250 gallons of water (2 - 10 ppm of 100% peroxyacetic acid) for algae control. Product can be simply added to the body of water, as the residual control will allow for even distribution throughout the water column. Where existing algae mats are present at time of treatment, the most effective live control will be obtained by breaking up mats and/or evenly dispersing diluted product over the algae mats. Apply this product as needed to control and prevent algae growth; apply more often in times of higher water temperatures.

Drip system application for livestock watering tanks: Tanks fed by a continuous flow of spring or well water can be equipped with a chemical drip system designed to meter-in this product based upon water flow rates. Pre-dilute this product at a 265 to 1 rate or 4-mL/minute water flow rate. Treat continuously or as needed to control and prevent algae regrowth.

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 2.1 gallons (270 fl. oz.) of this product with 100 gallons of water.
- Drinking water lines exceeding 500 feet in length: mix 4.2 gallons (540 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 1.0 gallon (132 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 1:47.

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.

TREATMENT FOR NON-POTABLE WATER SYSTEMS (wash tanks, dip tanks, drench tanks, evaporators, humidification systems and/or holding or storage tanks)

Treat water containing plant pathogens with 0.6-2.1 fl. oz. of this product for every 10 gallons of water or use a dilution rate of 1:620 - 1:2,200. This will provide 462-1636 ppm of this product, or 24 to 85 ppm 100% peracetic acid in the use solution.

POST HARVEST SPRAY TREATMENTS FOR PROCESS AND PACKING USES

Inject this product directly into spray, misting, humidification, fogging and spray bar system make up water on process and packing lines to prevent plant spoilage and fungal diseases on post-harvest fruits and vegetables. Inject this product at the rate of 0.4-1 fl. oz per 5 gallons of water (1:250 - 1:1,000 dilution). For best results where dump tanks are used, use a post-harvest spray treatment as produce is leaving dump tanks. Applicable for use on all types of post-harvest commodities.

IRRIGATION SYSTEMS CONTROL / CLEANING OF SLIME FORMING BACTERIAL GROWTH AND ALGAE

Use this product to treat water to suppress/control algae, bacterial slime and odors, and sulfides in agricultural irrigation, drip systems and drainage water and ditches. For irrigation water, apply 5 to 25 fluid ounces of this product per 1,000 gallons of water. This amount will provide 2-20 ppm of 100% peroxyacetic acid. Product can be simply added to a body of water by manual or mechanical means, as the residual control will allow for even distribution throughout the water column. Apply this product as needed to control and prevent algae growth; apply more often in times of higher water temperatures. **For cleaning fouled drip or micro sprinkler systems:** apply 25-60 fl oz of this product per 1000 gal of feed water. It is recommended to start each season with a thorough cleaning and every 30-60 days thereafter. Apply product into water lines for 30 minutes and turn off feed water for several hours (or overnight). Upon start up, open end caps to flush fouled water out of the system to prevent end line plugging. Close end caps and start up again as normal. For maintenance dosing, this product may be used continuously (or intermittently 4-8 times per day) at the lower doses of 2-10 ppm.

TREATMENT OF GREENHOUSE SURFACES AND EQUIPMENT

Use this product to suppress/ control non-public health algae, fungi and bacterial growth on hard, non-porous surfaces such as glazing, plastic, pots, flats, trays, cutting tools, benches, work areas, walkways, floors, walls, fan blades, ventilation ducts, watering systems, coolers, storage rooms, structures and equipment.

Clean surfaces before treatment. Sweep and remove all plant debris, and use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:256 of this product this or 0.5 fl. oz. per gallon of water for all non-porous surfaces that have been pre-cleaned with water. Apply solution with mop, sponge, power sprayer or fogger to thoroughly wet all surfaces. Cutting tools may be soaked to ensure complete coverage.

Heavy growths of algae and fungi may have to be scrubbed off following application. Repeat treatment as required to maintain control.

Foaming Applications: Apply this product as a foam treatment to enhance contact on hard, non-porous surfaces, vertical surfaces and irregular surfaces such as metal grating and structural steel where contact is difficult to maintain with coarse spray treatments. Add OXYFOAM™ foaming agent to the spray tank that contains the diluted product solution. Follow mixing instructions in the FOAM CLEANING directions above. Apply foam until the surface treated is completely covered. Allow foam treated surface to air dry. Do not rinse.

CONTROL OF SLIME FORMING BACTERIA IN RECIRCULATING AND COOLING WATER SYSTEMS (COOLING TOWERS, EVAPORATIVE CONDENSERS, PASTEURIZERS AND AIR WASHERS)

Severely fouled systems must be cleaned before adding this product. This product must be added in the system directly and not mixed with any other chemicals or additives. 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 at a point in the system where uniform mixing and even distribution will occur.

For slug treatment: add 20 oz. of product per 1000 gallons of process water. Repeat as necessary until microbiological control is evident. Thereafter, to maintain control, use (5.0-22.5 fl. oz.) of this product per 1000 gallons of process water (2-9 ppm active peroxyacetic acid) as a continuous or intermittent slug treatment. Continuous dosing methods usually require 2-5 ppm active peroxyacetic acid (5.0-12.5 fl. oz. per 1000 gal of process water) to achieve adequate control.

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 7.5-22.4 lbs. (102-306 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 paragraph, 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. Typically, the dosing regime would be using intermittent or continuous methods at 2-14 ppm as peroxyacetic acid.

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

This product may be used in the cleaning of ultra filtration (UF) and reverse osmosis (RO) membranes and other similar type membranes and their associated piping systems. This product may be added continuously in food, beverage, and drinking water systems for RO (reverse osmosis) systems only and in accordance with the instructions below. This product is not for use in kidney dialysis equipment. 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 1% of this product by volume (620 ppm peroxyacetic acid) for heavily fouled systems. The typical sanitation use solution dosing of this product is 1-2 oz. per 5 gallons of water (98-195 ppm peroxyacetic acid). 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. For occasional intermittent feed, do not exceed 98 ppm active peroxyacetic acid, which equals 1 oz. of this product per 5 gallons of feed water. Do not use the intermittent feed method for on-line use for potable water or direct food contact systems. Rinse the system with RO permeate or potable water until residual peroxygen concentration is below 1 ppm.

RO Continuous or Intermittent Addition: For continuous addition methods for RO systems, use 2-5 ppm active peroxyacetic acid (36-90 ppm as product), which equals 1.8-4.5 oz. of this product per 430 gallons of process water. For occasional intermittent feed, do not exceed 98 ppm active peroxyacetic acid, which equals 1 oz. of this product per 5 gallons of feed water. Do not use the intermittent feed method for on-line use in potable water or direct food contact systems.

PRE-PLANT SOIL TREATMENT PRIOR TO SEEDING OR TRANSPLANTING

This product is used for soil-borne diseases such as Fusarium, Phytophthora, Pythium, Verticillium, Thielaviopsis, and Rhizoctonia. This product may be applied as a pre-plant soil treatment prior to seeding or transplanting, or in consecutive cropping applications. Ensure that soil moisture of the beds is at or near capacity prior to this product application. This product may be applied in greenhouses or on outdoor crops.

PRE-PLANT SOIL APPLICATION INSTRUCTIONS

For Field Soils to be planted to the following crops, including but not limited to: Asparagus, brassica vegetables (broccoli, cauliflower), cereal grains, cucurbit crops (cucumber, squash, melons), fruiting vegetables (e.g. eggplant, peppers, tomatoes), herbs and spices, hops, hemp, leek, leafy vegetables (lettuce), legume vegetables, pineapples, root and tuber vegetables (carrot, garlic, onion, potato, sweet potato), strawberries, berries (cane fruit), fruit and nut crops, citrus, pome fruit trees, stone fruit trees, tree nuts, tropical and subtropical fruits, vineyards.

For Pre-Plant Soil Treatment: Cultivate the soil prior to treatment. Break-up compacted soil and clods to loosen soil completely. Apply a 1:100 dilution or 128 fl. oz. of this product per 100 gallons of setting water. Make banded or broadcast applications or apply solution to the soil through drench, or irrigation systems such as, but not limited to drip or sprinklers at a rate of 25 to 100 gallons of solution per acre-row either prior to planting or at the time of planting. This product will not harm seedlings or plants when applied at labeled rates. In fields with a history of disease prevalence, use the 100 gallons of mixed solution per acre-row rate. Following application, run irrigation system to ensure all solution has been flushed from the system into the soil.

For Pre-Plant Soil Treatment For Consecutive Cropping Applications: Use this product when crops are grown consecutively in the same soil during a growing season. One week prior to planting new crop, apply to the soil through the irrigation system.

Apply at a rate of 3-5 gallons of this product per acre in 1500 – 5000 gallons of water. Following application, run irrigation system to ensure all this product has been flushed from the system into the soil. This product will not harm seedlings or plants when applied at labeled rates.

For Greenhouse Soils to be planted to the following, including but not limited to: Food and non-food crops, hemp, flowering plants.

For Nursery, Turf, and Ornamental Soils to be planted to the following, including but not

limited to: Turf, lawns, parks, golf greens, athletic fields, recreational turf area, ornamentals, floral crops, forest tree seedlings.

For Seed or Transplant beds to be planted to the following, including but not limited to: Food and non-food crops, flowering plants. This product will not harm seedlings or plants when applied at labeled rates. In fields with a history of disease pressure, use the 5 gallons per acre rate.

SOIL TREATMENT WITH ESTABLISHED PLANTS OR SEEDLINGS

Apply this product at any stage of plant growth as a soil treatment. Make applications using soil drench, flood or drip irrigation. Ensure that soil moisture of the beds is at or near capacity prior to this product application. Following application, run irrigation system to ensure all solution has been flushed from the system into the soil.

SOIL APPLICATION WITH ESTABLISHED FIELD PLANTS OR SEEDLING INSTRUCTIONS

For Field Soils to be planted to the following crops, including but not limited to: Asparagus, brassica vegetables (broccoli, cauliflower), cereal grains, cucurbit crops (cucumber, squash, melons), fruiting vegetables (e.g. eggplant, peppers, tomatoes), herbs and spices, hops, hemp, leek, leafy vegetables (lettuce), legume vegetables, pineapples, root and tuber vegetables (carrot, garlic, onion, potato, sweet potato), strawberries, berries (cane fruit), fruit and nut crops, citrus, pome fruit trees, stone fruit trees, tree nuts, tropical and subtropical fruits, vineyards.

For Soil Drench: Apply 25 fl. oz. of this product per 200 gallons of water per 1000 square feet of soil to be treated.

For Flood Irrigation: Inject this product through a metered system using one gallon of this product per 1,000 gallons of water used.

For Drip Irrigation: Apply this product through the drip tape at an injection rate of 1:1000 (0.1% v/v), (equivalent to 1.0-3.0 gallons per acre in 1,000-3,000 gallons of water per acre respectively), and with a 45-90 minute run time. Apply first treatment during the first drip irrigation cycle. Make additional applications at 7–14 day interval depending on disease prevalence. For fields with history of high disease pressure, consider using higher rate of 3.0 gallons per acre.

For Greenhouse Soils to be planted to the following, including but not limited to: Food and non-food crops, hemp, flowering plants.

For Nursery, Turf, and Ornamental Soils to be planted to the following, including but not limited to: Turf, lawns, parks, golf greens, athletic fields, recreational turf area, ornamentals, floral crops, tree seedlings.

For Seed or Transplant beds to be planted to the following, including but not limited to: Food and non-food crops, flowering plants.

POST HARVEST AGRICULTURAL TREATMENTS AND USES

This product is considered a biopesticide for agricultural uses. It can be used in water or ice that contacts raw or fresh, post-harvest fruits and vegetables, for the control of spoilage and decay causing bacteria and fungi in commercial operations and packinghouses.

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 (500 mg/kg of produce) residual peroxyacetic acid to the use solution. This can be accomplished by initially adding 10.0 fl. oz. per 10 gallons of water. The recommended concentration is between 30-300 ppm as peroxyacetic acid (0.6-6.0 fl. oz. per 10 gallons of water). The final concentration necessary to accomplish the intended task will vary from plant-to-plant. 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 60 seconds is recommended to insure efficacy. A potable water rinse is not required.

Fogging in Filling, Packaging, Storage and Dispensing Rooms or Areas: This product can be applied by fogging to control the growth of non-public health microorganisms that may cause decay and/or spoilage on raw, post-harvest fruits and vegetables.

1. Use in secure fruit and vegetable storage system. Vacate all personnel prior to fogging. Post notice of when personnel can re-enter. After application, purge room with fresh air to replace treated air. Ensure room is properly ventilated. Personnel may re-enter 4 hours after system has been properly aired. Ensure there is no strong odor characteristic of vinegar before having personnel return to work area.

2. Fog areas to be treated using 3.0-17.5 fl. oz. of this product into humidified air per 1000 cu. ft. of room volume for a minimum of 4 hours. Inject concentrate into water used for fogging of postharvest fruits and vegetables in storage using any type of fogging equipment including: cold foggers, thermal foggers, low pressure air assisted and high pressure fog systems. Adjust water level accordingly to allow fogging apparatus to fog for a minimum of 4 hours.

FOGGING – NON-PUBLIC HEALTH Not a registered use by California

This product can be applied by fogging to control the growth of non-public health spoilage and decay causing microorganisms on hard, non-porous surfaces in dairies, beverage and food plants including meat and poultry processing facilities. All surfaces must be pre-cleaned prior to fogging.

Directions for Fogging in Dairies, Beverage and Food Handling Plants (including meat and poultry processing facilities): Prior to fogging, food products and packaging material must be removed from the room or carefully protected. The room or building must be vacant of all personnel during and at least two hours after the fogging treatment. Calculate the volume of the room to determine volume of solution needed to fog (one quart per 1000 cu. ft. of room area). Prepare a solution containing 1.0-1.4 fl. oz. per 4 gallons of water and fog using a mechanical fogging apparatus. Fog product for length of time necessary to fill room based on fogging apparatus manufacturer directions. Surfaces must remain undisturbed for 5

minutes after room fill is achieved before initiating aeration of the room.

Do not enter the treated area for a minimum of 2 hours [or 8 air exchanges (ACH)] after fogging is completed. If the room or building must be entered prior to complete aeration, the individual must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves, and long pants.

The fog generated is irritating to the eyes, skin and mucous membranes. Wear a dust mist respirator when mixing the use solution and pouring it into the mechanical fogging apparatus. All food contact surfaces must be thoroughly rinsed with potable water prior to sanitizing with this EPA approved food contact sanitizer.

SPRAY TREATMENT OF SEED POTATOES

For control of seed decay after planting, caused by fungi, oomycetes and bacteria.

Crop	Disease	Application Rate	Directions
Seed Potatoes	Bacteria Soft Rot Bacterial Ring Bacterial Ring Rot Early Blight Fusarium Dry Rot Late Blight Rot Silver Scurf	As a dip: Use 1.16 - 2.32 fl. oz. of this product per gal. of water (1:110 - 1:55 dilution).	Dip whole or cut tubers in the solution for 1- 5 minutes.
		As a spray: Use 11.6 - 23.24 fl. oz. of this product in 10 gal. of water (1:110 - 1:55 dilution).	Inject this product directly into the spray bar water supply. Spray solution directly onto tubers to achieve full and even coverage (1.0 - 2.0 gal. of spray per ton of potatoes).

SPRAY TREATMENTS FOR NEWLY HARVESTED POTATOES/VEGETABLES BEFORE STORAGE

For control of storage diseases caused by fungi, oomycetes and bacteria.

Crop	Disease	Application Rate	Directions
Potatoes (Processing, Seed and Table Stock) Vegetables	Bacteria Soft Rot Bacterial Ring Bacterial Ring Rot Early Blight Fusarium Dry Rot Late Blight Rot Silver Scurf	Use 1.16 - 2.32 fl. oz. of this product per gal. of water (1:110 - 1:55 dilution) per ton of potatoes.	Spray diluted solution directly onto tubers to achieve full and even coverage (2.0 -4 gal. of spray per ton of potatoes). The use of additional food grade surfactant is acceptable to aid in sticking.

DIRECT INJECTION TO HUMIDIFICATION WATER FOR POST-HARVEST POTATOES OR VEGETABLES IN STORAGE

For control of storage diseases caused by fungi, oomycetes and bacteria.

Crop	Disease	Application Rate	Directions
Potatoes (Processing, Seed and Table Stock) Vegetables	Bacteria Soft Rot Bacterial Ring Bacterial Ring Rot Early Blight Fusarium Dry Rot Late Blight Rot Silver Scurf	Use 1.16 - 2.23 fl. oz. of this product per gal. of water (1:110 - 1:55 dilution) per ton of potatoes.	Inject concentrate into makeup water used in humidification of post-harvest potatoes in storage.

TREATMENT OF SEED POTATOES Not a registered use by California

To control, treat or suppress the bacterial and fungal diseases: bacterial soft rot, bacterial ring, bacterial ring rot, early blight, fusarium dry rot, late blight, rot, silver scurf, this product can be applied by dip or spray on harvested potatoes going into storage.

As a dip: Use 1.16-2.32 fl. oz. of this product per gallon of clean water. Dip whole or cut tubers in the solution for 1-5 minutes.

As a spray: Use 11.60-23.24 fl. oz. of this product per 10 gallons of clean water. Inject this product directly into the spray bar water supply. Spray solution directly onto tubers to achieve full and even coverage (0.25-1.0 gallon of spray per ton of potatoes). Max dose allowed is 1.8 gal of this undiluted product per metric ton of potatoes.

TREATMENT OF HARVEST POTATOES

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 2.2-5 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.

FOGGING OF POTATOES IN STORAGE Not a registered use by California

For potatoes in storage, apply this product by fogging to prevent/control the growth of non-public health organisms that cause spoilage and/or decay of potatoes, using any type of fogging equipment such as thermo foggers and cold foggers. This product is considered a biopesticide for this use.

1. Before fogging, cover any metal equipment or controls inside the storage area or plenum chamber that might be sensitive to hydrogen peroxide and/or peroxyacetic acid. Ensure room is properly ventilated. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Vacate the area of all personnel prior to, during and after fogging until the hydrogen peroxide concentration is below 0.5 ppm. After fogging, do not allow personnel to reenter the treated area until the fog has dissipated and there are no strong odors remaining.
2. Use 0.56 - 1.12 fl. oz. of this product per ton of potatoes (11.6 - 23.2 fl. oz. of this product per 1000 ft³ of potatoes or 2.2 - 4.4 gal. of this product per 10,000 CWT of potatoes).
3. Mix the product concentrate with water at a dilution rate of 1:2.3 or 1:6.87 and apply it as a fog directly into the plenum while operating the fan{s} at low speed. To improve fog distribution, a carrier solution that is compatible with this product, and approved for use on potatoes may be added following the recommendations of the fogging equipment manufacturer.
4. Make the first fog application immediately after potatoes enter storage (within 2 -5 days) and repeat applications once every month or more as necessary while potatoes remain in storage.

CONTROL OF ALGAL, FUNGAL AND ODOR CAUSING BACTERIAL GROWTH ON NON-FOOD CONTACT GREENHOUSE SURFACES AND WATERING SYSTEMS

Treatment of Greenhouse evaporative coolers: Treat contaminated surfaces with a dilution of 1:256 of this product or 0.5 fl. oz. per gallon of water. For maintenance, treat cooler water once a week with a dilution of 1:800 of this product for every gallon of cooling water.

Treatment of Greenhouse irrigation systems: (such as flooded floors, flooded benches, recycled water systems, drip trickle, capillary mats, sprinkler systems, humidification and misting systems) - Treat contaminated water with a dilution of 1:2200 of this product. For maintenance, treat clean water with a dilution of 1:22,000 to 1:44,000 of this product as needed for the control of algae and bacteria. For fungal control, increase maintenance rate to 1:5,000 to 1:10,000.

WATER DAMAGE RESTORATION

Use this product to control the growth of odor causing bacteria and fungi in water damage restoration situations. This product is suitable for use on hard, non-porous surfaces, along with the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, frame lumber, tackles strip and paneling.

Application Instructions:

1. Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
2. Determine the treatment rates as indicated in the directions for use and make proper dilutions.
3. Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. The product will immediately go into suspension without any required agitation.
4. Do not apply this product in conjunction with any other pesticides or fertilizers; this has the potential to cause reduced performance of the product. Avoid application in this manner.