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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

DEC 02 2014

December 2, 2014

Ms. Kresti Lyddon
Senior Registration Specialist for,
Mason Chemical Company
721 W. Algonquin Road
Arlington Heights, IL 60005

Subject: Label Notification per PRN 98-10 to make minor labeling revisions
Product Name: Maguard 5626
EPA Registration Number: 10324-214
Application Date: November 14, 2014
Decision Number: 497589

Dear Ms. Lyddon:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Karen M. Leavy at (703)-308-6237 or via email at Leavy.Karen@epa.gov.

Sincerely,

Seiichi Murasaki, Acting Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

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MAGUARD® 5626

(Note to Reviewer: Marketing claims may be used on the front panel.)

Marked Copy

Cleaner • Disinfectant • Food Contact Sanitizer
 • Deodorizer • Fungistat • Virucide*

ACTIVE INGREDIENTS:	
Hydrogen Peroxide	27.3%
Peroxyacetic Acid	5.9%
OTHER INGREDIENTS:	66.8%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER {PELIGRO}
 {See {left} {back} {side} {right} {panel} {of label}} {below} for {additional} {precautionary statements}{and}{or}{first aid}}.

(Note to Reviewer: First Aid may only appear on different area of the container label if the Front Panel is less than 12 square inches in total.)

FIRST AID

In case of emergency, call a 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.
IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.
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.
IF SWALLOWED: 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. Call a poison control center or doctor immediately for treatment advice.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

{For [{chemical}{and}{or}{medical}{and}{or}{environmental}] emergencies, call (insert name and/or number of emergency contact) {hours of operation}{24 hours a day}{7 days a week}.}



{See {additional} {sheet} {insert} for {other} {directions for use} {information} {claims} {organisms}.}

Net Contents:
 {{Batch} {Lot} No} {Manufacturing Date};
 {Product of USA} {Made in the USA}

.....

- automobile interiors, mats, crates, cabs, and wheels
- commercial florist pots, flats and flower buckets, work areas and benches
- Crypton barrier fabric
- hard hats, headphones
- hard, non-porous surfaces of picnic tables and outdoor furniture
- kennel runs, cages, kennel/cage floors, conductive flooring, examination tables, veterinary x-ray tables, loading platforms, animal equipment
- large inflatable, non-porous plastic and rubber structures such as animal enclosures, promotional items, moonwalks, slides, obstacle course, play and exercise equipment
- maintenance equipment
- playground equipment
- non-wooden picnic tables and outdoor furniture except cushions and wood frames
- drinking fountains
- telephones and telephone booths
- wrestling and gymnastic mats, athletic mats, athletic training tables, physical therapy tables, exercise equipment, athletic helmets, wrestling/boxing headgear, athletic shoe soles, and locker rooms {areas}
- beer fermentation and holding tanks, bottling or pre-mix dispensing equipment
- citrus processing equipment and holding tanks
- food {preparation} {and} {storage} areas
- hatcheries, setters, trays, racks, egg flats, chick boxes, egg cases, vans and trash containers, seed houses, poultry/turkey equipment, carts, sexing tables, and automated tray, rack and buggy washers, egg receiving and egg holding areas
- harvesting & handling equipment
- ice machines
- kitchen equipment such as food processors, blenders, cutlery, trash compactors and other utensils
- meat packing plant surfaces such as livestock vehicles and holding pens, receiving areas and delivery chutes, slaughter areas and conveyors, hand, rub and guide rails, post knock cabinets, stands and flooring surfaces, chains and moving process lines, chutes, conveyors, tallow and animal feed production surfaces, processed product and offal equipment surfaces, fabrication and processing areas covering cold storage areas, stainless steel cut out and prep tables, and other stainless surfaces
- wine processing equipment and holding tanks
- tobacco plant equipment
- hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, hard, non-porous surfaces of cervical collars and neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops, examination tables, x-ray tables, ambulance equipment/surfaces, medical equipment surfaces
- external lenses; vision correction devices including eyeglasses, protective eyewear, goggles, light lens covers, optical instruments/implements (not for use on contact lenses.)
- exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning, refrigeration equipment and heat pumps
- interior hard, non-porous surfaces of water softeners, reverse osmosis units, ice machines, water coolers, water holding tanks and pressure tanks

DISINFECTION MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product".)

- acts as a virucide* and bactericide while also cleaning.
- {also} eliminates odors leaving surfaces smelling clean and fresh.
- {also} [{removes} {eliminates}] odors {caused by} {{bacteria} {and} {non-fresh foods}} {leaving {restroom} {kitchen} surfaces smelling clean and fresh}.
- can be used to disinfect, clean and deodorize terrarium and small animal cages, substrate and other hard, non-porous cage [{equipment} {furniture} {plastic terrarium ornaments} {heat caves} {and} {water dishes}]. (Do not use on porous rocks, hot rocks, or driftwood.)
- can be used for daily cleaning.
- can be used where odors are a problem.
- [{cleans} {cleaner}].
- cleans, disinfects and deodorizes on hard, non-porous surfaces.
- cleans, disinfects and deodorizes hard, non-porous surfaces by killing many odor-causing microorganisms.
- cleans, disinfects and eliminates odors leaving hard, non-porous surfaces smelling clean and fresh.
- cleans, disinfects and deodorizes hard, non-porous surfaces by killing odor-causing microorganisms.
- cleans, disinfects and deodorizes hard, non-porous {{hospital} {medical} surfaces} in one step {with no rinsing required}.
- cleans, disinfects and deodorizes hard, non-porous surfaces such as flower buckets, walls, floors of coolers, chippers, greenhouse packing areas, garbage pails, design and packing benches, and countertops, and other areas where obnoxious odors develop.
- cleans and disinfects non-medical (i.e., industrial and firefighting) respirators in industrial, commercial and institutional premises.
- cleans quickly by removing dirt, grime, food residue, body oils, dead skin, blood and other organic matter commonly found in *(insert site from Locations)*.

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- cleans, sanitizes and disinfects hard, non-porous surfaces of personal protective equipment, safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, hard hats, headphones, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.)
- cleans, shines, deodorizes and disinfects all hard, non-porous {household} surfaces {listed on the label}.
- clear drying formula.
- closed loop automated dispensing reduces employee exposure to concentrate product.
- closed loop automated dispensing reduces the risk of spills.
- {{concentrate} {concentrated}}.
- concentrated broad-spectrum disinfectant/virucide* with efficacy against {{Clostridium difficile} {C. difficile} {C. diff}} spores.
- {{controls} {reduces} {eliminates} {neutralizes} {destroys}} odors to make your {{home} {kitchen} {bathroom}} sanitary.
- contains hydrogen peroxide.
- cross-contamination is a major housekeeping concern not only in hospitals, but also in schools, institutions and industry.
- cuts cleaning time.
- daily use product with {{Clostridium difficile} {C. difficile} {C. diff}} spore efficacy {{allows for product standardization}}{eliminates need for} {separate sporicide}{bleach}}.
- daily defense against {{Clostridium difficile} {C. difficile} {C. diff}} spores.
- designed for daily use on common materials found in hospitals.
- {{deodorizes}{deodorant}{deodorizer}}.
- deodorizes by killing microorganisms that cause offensive odors.
- deodorizes hard, non-porous surfaces in restroom areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.
- designed for healthcare {{non-critical}}{hard, non-porous} surfaces.
- {{disinfects} {disinfectant}}.
- disinfects {and sanitizes} kitchen surfaces {bathroom surfaces and floors}.
- economical concentrate sporicide designed for daily cleaning and easy on surfaces.
- effective in 2 minutes against {{Clostridium difficile} {C. difficile} {C. diff}} spores.
- effective one-step disinfectant-cleaner for use in hospitals {ambulatory care centers,} {long term care facilities,} {and} {other healthcare settings}.
- effective {for daily use} against *(insert any organism from list of organisms)* {and} {{Clostridium difficile} {C. difficile} {C. diff}} {spores} {in hospitals}}.
- effective against Multidrug Resistant Organisms {{MDROs}} {Staphylococcus aureus, {Resistant to Methicillin} {{MRSA}}}, {Staphylococcus aureus, {{Genotype USA300}} {Community Associated Methicillin Resistant} {{CA-MRSA}}}, {Staphylococcus aureus, {{Genotype USA400}} {Community Associated Methicillin Resistant} {{CA-MRSA}}}, {Staphylococcus aureus, {Intermediate Vancomycin Resistance} {{VISA}}}, {Enterococcus faecalis {Resistant to Vancomycin} {{VRE}}}, {Escherichia coli {Extended-Spectrum Beta-Lactamase resistant}}{ESBL}}, {Klebsiella pneumoniae} {Carbapenem resistant}}{KPC}}.
- evaporates completely.
- good for use with microfiber cloths.
- has been formulated to aid in the reduction of cross-contamination on hard, non-porous surfaces not only in hospitals, but also in schools, institutions and industry.
- has passed the Virucidal* Efficacy of a Disinfectant for Use on Environmental Surfaces utilizing {{Duck} Hepatitis B Virus} {and} {Bovine Viral Diarrhea Virus {{BVDV}}} {Hepatitis C Virus} {{Surrogate for Human Hepatitis C Virus}}. *(The description "Duck" and "Surrogate for Human Hepatitis C Virus" must be used in California. Use of only "Hepatitis C Virus" is not allowed in CA).*
- has passed the Virucidal* Efficacy of a Disinfectant for Use on Environmental Surfaces utilizing Feline Calicivirus {{surrogate for Norovirus}}.
- has demonstrated effectiveness against Influenza A {{H1N1}} Virus.
- has passed the Virucidal* Efficacy of a Disinfectant for Use on Environmental Surfaces utilizing Influenza A {{H1N1}} Virus.
- helps prevent cross-contamination on hard, non-porous surfaces.
- inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *(Not for use in CA.)*
- is an economical concentrate {that can be diluted for use} {with a mop and bucket, cloth, microfiber cloth, sponge, coarse spray device or by soaking}.
- intended for use with the *(insert company name and/or name of appropriate dispenser)*.
- *(insert company name and/or name of appropriate dispenser)* controls dilution to reduce waste of concentrate.
- *(insert company name and/or name of appropriate dispenser)* ensures appropriate ppm levels of actives in use solution.
- *(insert company name and/or name of appropriate dispenser)* makes accurate dispensing quick and easy.
- is a concentrated hospital use disinfectant that is effective against a broad spectrum of bacteria, is virucidal*, {and} eliminates odor-causing bacteria when used as directed.
- is a {concentrated} non-acid {bowl and} bathroom cleaner, which cleans, disinfects and deodorizes.
- is a disinfectant for cleanroom and laboratory areas to disinfect washable, hard, non-porous, non-food contact surfaces such as: laminar-airflow equipment and BioSafety cabinet work surfaces and exterior surfaces of the following: counter tops, sinks, plumbing fixture surfaces, and incubators, refrigerators and centrifuge surfaces of metal, stainless steel, glass, plastic {such as polystyrene or polypropylene}, Formica®, and vinyl.
- {is a heavy duty disinfectant cleaner that} cleans, disinfects and deodorizes in one labor saving step.
- is a multi-surface cleaner, deodorizer and disinfectant.

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- is a one-step {hospital-use} {virucidal} {disinfectant} cleaner and deodorant {surfactant} {odor neutralizer} designed for general cleaning, {and} disinfecting, {deodorizing} {of} hard, non-porous surfaces.
- is designed for killing [{Clostridium difficile} {C. difficile} {C. diff}] spores {on {pre-cleaned,} hard non-porous surfaces} in hospitals.
- is a cleaner and [{deodorant} {odor-counteractant} {odor-neutralizer}] designed for [{general cleaning} {and} {disinfecting}, {deodorizing}] on hard, non-porous surfaces.
- is a one-step disinfectant that is effective against a broad spectrum of bacteria, is virucidal* {including HIV-1, HCV & HBV,} and inhibits their odors when used as directed.
- is a proven disinfectant, cleaner, sanitizer, and virucide*.
- is a versatile disinfectant & sanitizer for veterinarian, veterinary practice, animal care, animal laboratory, and agricultural and farm premise applications.
- is an effective [{bactericide} {and} {virucide*}] {disinfectant} in the presence of [{organic soil} {5% {blood} serum}].
- is designed to provide both general cleaning and disinfection.
- is for larger areas such as operating rooms and patient care facilities.
- is for use as a disinfectant on hard, non-porous surfaces {at {138} {184} {922} {1844} ppm active PAA}.
- is for use as a disinfectant on hard, non-porous surfaces {at [{138} {184} {922} {1844}] ppm active PAA} and as a sanitizer on dishes, glassware and utensils, public eating places, dairy processing equipment, and food processing equipment {at 77 – 469 ppm active PAA}.
- is for use in federally inspected meat and poultry plants on all hard, non-porous surfaces in inedible product processing areas, non-processing areas and/or exterior areas, federally inspected meat and poultry plants as a floor and wall cleaner for use in all departments, and federally inspected meat and poultry plants as a disinfectant agent for use in all departments.
- is for use in work areas such as tool rooms and garages for odor control and light duty cleaning.
- is used to clean, sanitize and disinfect non-porous ambulance equipment and surfaces by rinsing all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.)
- is particularly effective in inhibiting the growth of ammonia producing organisms, such as Corynebacterium ammoniagenes, which acts on urine in the diapers to produce ammonia.
- kills [{Clostridium difficile}{C. difficile}{C. diff}] spores in 2 minutes.
- kills *(insert virus name from approved organism listing for this product)*.
- kills, eliminates, removes and destroys germs, bacteria and viruses on hard, non-porous surfaces.
- kills {99.9% of}:
 - {any disinfection organism listed} {on hard, non-porous surfaces}.
 - {common} {household} {institutional} {kitchen} germs {on {the} floor{s}}.
 - {household} {institutional} {kitchen} bacteria –and/or– germs {{that get} tracked into your home} {by shoes –and/or– pets –and/or– kids} {from outside} {every day}.
 - {kitchen} {bathroom} {household} {institutional} bacteria {on {the} floor{s}} {ordinary dish soap can't}.
- kills {Avian} Influenza A {Flu} Virus {(H5N1)} {(H1N1)}.
- kills bacteria and helps prevent cross-contamination on hard, non-porous non-food contact kitchen surfaces listed on this label.
- kills {common} {kitchen} {bathroom} {household} [{germs} {bacteria} {and} {viruses}].
- kills germs.
- kills odor causing bacteria.
- kills odor-causing bacteria in the [{kitchen} {bathroom} {household}].
- leaves no visible residue.
- makes cleaning easier.
- may be used to clean and disinfect finished floors.
- cleans and disinfects without dulling gloss.
- may be used to clean and disinfect floor areas, sinks, faucets, bathrooms and tubs.
- may cause bleaching of treated surfaces, test commodity if unsure.
- [{maximizes} {improves}] labor results by effectively controlling odors.
- [{Malodor Activity} {Odor} {Counteractant}] – [{eliminates} {destroys}] odors {and odor-causing bacteria on hard, non-porous surfaces in restroom areas, behind and under sinks and counters, and storage areas {and other {hard, non-porous} surfaces} where bacterial growth can cause malodors.}
- multi surface cleaner disinfectant.
- neutralizes musty odors and tough odors from smoke, pet accidents, and spills on contact.
- no harsh alcohol smell.
- no harsh bleach smell.
- no rinsing.
- non-abrasive.
- non-flammable.
- proven "one-step" disinfectant – virucide* which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.
- proven "one-step" disinfectant – virucide*.
- provides long lasting freshness against tough {pet} odors such as odors from litter boxes and pet accidents.

- removes and/or cleans (insert () is(s)/soils(s) from list below)
 - Bathtub ring
 - Blood
 - Body oils
 - Dirt
 - Fecal matter
 - Grime
 - Laboratory stains
 - Other common soils and/or stains
 - Other organic matter
 - Urine
- Respiratory illnesses attributable Pandemic 2009 H1N1 (formerly called Swine Flu) are caused by Influenza A Virus. This product is a broad-spectrum hard surface disinfectant that has been shown to be effective against Influenza A (H1N1) and other similar viruses.
- the smell of clean.
- tough on (Clostridium difficile)(C. difficile)(C. diff) spores but easy on surfaces and designed for daily use.
- Use this product on the multi-touch hard, non-porous surfaces responsible for cross-contamination.
- will control unpleasant (malodors) (odors).
- will not leave grit or soap scum.

SANITIZATION MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product".)

- Escherichia coli (E. coli), Salmonella enterica (Salmonella), and Staphylococcus aureus (Staph) are common germs found where food is prepared and stored.
- eliminates (kills) 99.999% of bacteria commonly found on kitchen surfaces (in 60 seconds).
- For use as a Food Contact Surface sanitizer at (1 oz. of this product per 3 gal. of water (154 ppm active PAA)) (2 oz. of this product per 6 gal. of water (154 ppm active PAA)) (1 oz. of this product per 6 gal. of water (77 ppm active PAA)).
- is a food contact surface sanitizer.
- is for use as a sanitizer in bottling and beverage dispensing equipment, beer fermentation and holding tanks, sanitary filling of bottles and cans (in the final rinse application), and for external spraying of filling and closing machines and in wineries for use on holding tanks, floors and processing equipment.
- is for use as a Food Grade Egg Shell sanitizer, with best results achieved in water temperatures ranging from 78° – 110°F.
- kills 99.999% of bacteria like Escherichia coli, Campylobacter jejuni, Escherichia coli O157:H7, Staphylococcus aureus, Listeria monocytogenes, Yersinia enterocolitica and Shigella dysenteriae on food contact kitchen surfaces in 60 seconds.
- Regular, effective cleaning and sanitizing of equipment utensils and work or dining surfaces which could harbor food poisoning microorganisms minimizes the probability of contaminating food during preparation, storage or service. Effective cleaning will remove soil and prevent the accumulation of food residues, which may decompose or support the rapid development of food poisoning organisms or toxins. Application of effective sanitizing procedures reduces the number of those microorganisms that (which) are present on equipment and utensils after cleaning, and reduces the potential for the transfer, either directly through tableware such as glasses, cups and flatware or indirectly through food.
- Sanitizes (kitchen) (bathroom) surfaces and floors.
- Use this product to sanitize hard, non-porous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage areas and display equipment and other hard surfaces.

HOUSEHOLD MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product".)

- is effective against household (germs) (bacteria).
- For a cleaner, fresher household.

GENERAL MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product" or "This product is (a) (an)".)

- Athletic Surface Disinfectant.
- can be applied through foaming apparatus, low-pressure sprayers and fogging (wet misting) systems. Follow manufacturers' instructions when using this equipment.
- formulated for effective Poultry Sanitation.
- formulated for effective Swine Premise Sanitation.
- has been designed specifically where housekeeping is of prime importance.
- is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking.
- is efficient and stable in use-dilution.
- is designed for use in pet salons, animal hospitals, barber and beauty shops.
- is for use in (automated dilution systems) (automated) (dilution systems) (Dilution System trade name)).
- is for use on floors, walls, tile, cages, crates, mats, litter boxes, floor coverings, or any hard, non-porous surfaces soiled by a pet.
- is great for use (on) (in the) (kitchen), (bathroom), (floors) (and) (other household areas)).
- is non-staining.
- non-abrasive formula will not (harm) (scratch) surfaces.
- Non-Acid Bathroom Cleaner.
- non-dulling formula eliminates the time and labor normally required for rinsing.
- will not harm sealed stone, sealed grout, or glazed tile.
- will not harm most surfaces.
- will not leave a grit or soap scum.

(Note to Reviewer: Text in () is optional. Brackets [] indicate that at least one option within the brackets must be used in the final label text. Parentheticals () are meant to appear on final label. "This product" can be substituted with actual product name.)

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CLEANING MARKETING CLAIMS

(Note to Reviewer: The following marketing claims may be used with the prefix "This product".)

- cleans {and shines} {by {removing} {dirt} {grime} {and food soils in food preparation and processing areas}} {everyday kitchen messes} {non-food contact kitchen surfaces and food preparation areas} {like dirt, grease and food stains}.
- cleans by removing dirt, grime, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine or poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities.
- cleans rodent soiled areas.
- contains no [{abrasives} {bleach} {harsh acids} {phosphates}] {so it won't scratch surfaces}.
- cuts {through tough} grease and grime.
- is for non-scratch cleaning of showers and tubs, shower doors and shower curtains.
- is a floor cleaner.
- is a one-step cleaner.
- is formulated to provide effective cleaning strength that will not dull high gloss floor finishes with repeated use.
- provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.
- removes dirt.
- removes stains.

PACKAGING CLAIMS

- Antibacterial.
- Clear formula.
- Concentrate{d}.
- Easy to Use.
- Fewer products – no need for separate deodorizer.
- This [{container} {bottle}] is made of {at least} (x)% post-consumer recycled plastic.
- Makes *(insert value)* [{Gal.} {Quarts} {Containers}]

DIRECTIONS FOR USE

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

(Note to Reviewer (General Considerations): Numbered instructions will be used if label space permits, otherwise may appear in paragraph format. The list of organisms can be formatted into paragraph form using a comma to separate organisms. Unit abbreviations can be spelled out. When choosing optional text, appropriate punctuation can be inserted or deleted.)

(Note to Reviewer: The following statement is to be used if any food premise locations are listed on the final label.)

{Before using this product {in federally inspected meat and poultry food processing plants and dairies}, food products and packaging materials must be removed from the room or carefully protected.}

(Note to Reviewer: For labels that list medical devices and/or stainless steel surfaces, one of the following FDA/EPA Memorandum of Understanding statements must be used.)

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. {This product can be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.}

(OR)

This product is not for use on medical device surfaces.

(Note to Reviewer: Appropriate dilution rates may be substituted as long as they are equivalent dilution rates.)

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DILUTION GUIDE: (Note to Reviewer: This DILUTION GUIDE is optional.)

SPORICIDAL CLAIMS (1844 ppm active PAA)	4 oz. / 1 gal. water	2 minutes
DISINFECTION FOR HOSPITAL OR MEDICAL ENVIRONMENT CLAIMS		
922 ppm active PAA	2 oz. / 1 gal. water	2 minutes
1844 ppm active PAA	4 oz. / 1 gal. water	2 minutes
184 ppm active PAA	2 oz. / 5 gal. water	10 minutes
GENERAL OR BROAD SPECTRUM CLAIMS (138 ppm active PAA)	1.5 oz. / 5 gal. water	10 minutes
PUBLIC HEALTH VIRUCIDAL* CLAIMS		
922 ppm active PAA	2 oz. / 1 gal. water	2 minutes
1844 ppm active PAA	4 oz. / 1 gal. water	2 minutes
1844 ppm active PAA (HBV, HCV)	4 oz. / 1 gal. water	5 minutes
184 ppm active PAA	2 oz. / 5 gal. water	10 minutes
138 ppm active PAA	1.5 oz. / 5 gal. water	10 minutes
ANIMAL VIRUCIDAL* CLAIMS		
1844 ppm active PAA	4 oz. / 1 gal. water	2 minutes
1844 ppm active PAA (Canine Parvovirus)	4 oz. / 1 gal. water	5 minutes
184 ppm active PAA	2 oz. / 5 gal. water	10 minutes
138 ppm active PAA	1.5 oz. / 5 gal. water	10 minutes
FOOD CONTACT SANITIZING CLAIMS		
77 ppm active PAA	1 oz. / 6 gal. water	1 minute
150 ppm active PAA	‡ 2 oz. / 6 gal. water – 1 oz. / 3 gal. water	1 minute
469 ppm active PAA	6.1 oz. / 6 gal. water	1 minute
FUNGICIDAL CLAIMS		
922 ppm active PAA	2 oz. / 1 gal. water	2 minutes
1844 ppm active PAA	4 oz. / 1 gal. water	2 minutes
184 ppm active PAA	2 oz. / 5 gal. water	10 minutes
138 ppm active PAA	1.5 oz. / 5 gal. water	10 minutes
FOR DEODORIZING CLAIMS		
922 ppm active PAA	2 oz. / 1 gal. water	2 minutes
1844 ppm active PAA	4 oz. / 1 gal. water	2 minutes
184 ppm active PAA	2 oz. / 5 gal. water	10 minutes
138 ppm active PAA	1.5 oz. / 5 gal. water	10 minutes

(‡ This rate must be used in California)

HOSPITAL/HEALTH CARE/MEDICAL/NON-MEDICAL

(Note to Reviewer: Dilution rates and contact times for insertion into directions below.)

2 oz. of this product per gal. of water {(922 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)

4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)

*4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 5 minutes
(OR)

2 oz. of this product per 5 gal. of water {(184 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes
(OR)

1.5 oz. of this product per 5 gal. of water {(138 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes

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FOR USE AS A SPORICIDE AGAINST *Clostridium difficile*:

1. Wear appropriate barrier protection such as gloves, gowns, masks or eye protection.
2. Pre-clean heavily soiled areas: Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with a clean cloth, mop, and/or sponge saturated with the disinfectant product. This cleaning may be accomplished with any cleaning solution, including this product. Cleaning is to include vigorous wiping and/or scrubbing, until all visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms are to be cleaned in an appropriate manner, such as from right to left or left to right, on horizontal surfaces, and top to bottom, on vertical surfaces, to minimize spreading of the spores. Restrooms are to be cleaned last. Do not reuse soiled cloths.
3. Apply use solution of 4 oz. of this product per gal. of water {or equivalent use-dilution} to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, {by immersion}, {auto scrubber}, {{mechanical spray device}, {{hand pump} coarse pump or trigger spray device}. For spray applications, spray 6-8 inches from surface. Do not breathe spray.}
4. Treated surfaces must remain wet for 2 minutes.
5. {{Wipe dry} {with a clean cloth} {or} {allow to air dry}}. {Rinsing of floors is not necessary unless they are to be waxed or polished.}
6. Prepare a fresh solution daily or when visibly dirty.
7. Materials used in the cleaning process that may contain feces/wastes are to be disposed of immediately in accordance with local regulations for infectious materials disposal.

FOR USE AS A {CLEANER/}{HOSPITAL} {MEDICAL} DISINFECTANT {/VIRUCIDE*}{/FUNGICIDE):

1. Pre-clean heavily soiled areas.
2. Apply use solution of *(insert appropriate dilution here)* to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, {by immersion}, {auto scrubber}, {{mechanical spray device}, {{hand pump} coarse pump or trigger spray device}. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray.}
3. Treated surfaces must remain wet for *(insert appropriate contact time here)*.
4. {{Wipe dry} {with a clean cloth} {or} {allow to air dry}}. {Rinsing of floors is not necessary unless they are to be coated with finish or restorer.}
5. Prepare a fresh solution daily or when visibly dirty.

BLOODBORNE PATHOGEN INSTRUCTIONS *(Note to Reviewer: Heading is optional. If instructions used, all indented text must be included. On the final printed label at least one of the dilution rates (or equivalent use-dilution) will be used for the Bloodborne Pathogen Section, only):*

***KILLS {{HIV-1} {HBV} {AND} {HCV}} ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of hard, non-porous surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of {{Human Immunodeficiency Virus Type 1 {{HIV-1}} {{(associated with AIDS)}} {Hepatitis B Virus {{(HBV)}} {and} {Hepatitis C Virus {{(HCV)}}}.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST {{HIV-1} {HBV} {AND} {HCV}} ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

Personal Protection: {{Wear protective latex gloves, gowns, masks and eye protection} {Specific barrier protection items to be worn when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks and eye protection}}.

Cleaning Procedure: Blood and other body fluids {containing {HIV-1} {HBV} {and} {HCV}} must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product.

Disposal of Infectious Materials: Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Contact Time:

Allow surface to remain wet for 2 minutes for HIV-1 at 2 oz. of this product per gal. of water {(or equivalent use-dilution)}.

(OR)

Allow surface to remain wet for 2 minutes for HIV-1, 5 minutes for HBV and HCV at 4 oz. of this product per gal. of water {{1844 ppm active PAA}} {(or equivalent use-dilution)}.

(OR)

Allow surface to remain wet for 10 minutes for HIV-1 and HBV at 2 oz. of this product per 5 gal. of water {(or equivalent use-dilution)}.

(OR)

Allow surface to remain wet for 10 minutes for HIV-1 and HBV at 1.5 oz. of this product per 5 gal. of water {(or equivalent use-dilution)}.

CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT {{(RESPIRATORS)}:

Pre-clean equipment, if heavily soiled to ensure proper surface contact. Add *(insert appropriate dilution here)*. Gently mix for uniform use solution. Apply use solution to surfaces of the respirator with a sponge, brush, cloth, mop, {by immersion}, {auto scrubber}, {{mechanical spray device}, {{hand pump} coarse pump or trigger spray device}. For spray applications, spray 6-8 inches from surface. Do not breathe spray.}. Rub with brush, cloth, or sponge. Treated surfaces must remain wet for *(insert appropriate contact time here)*. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134). Prepare a fresh solution daily or when visibly dirty.

GENERAL DISINFECTION

FOR USE AS A CLEANER/GENERAL DISINFECTANT:

1. Apply {use solution of} 1.5 oz. of this product per 5 gal. of water {(138 ppm active PAA)} {(or equivalent use-dilution)} to hard, non-porous surfaces using a sponge, brush, cloth, mop, {by immersion}, {auto scrubber}, {{mechanical spray device,} {{hand pump} coarse pump or trigger spray device}. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray.}
2. Rub with brush, cloth, or sponge.
3. Surfaces must remain wet for 10 minutes.
4. [{Wipe dry} {with a clean cloth} {or} {Allow to air dry}.]
5. Prepare a fresh solution daily or when visibly dirty.

SANITIZING

FOOD CONTACT {AND TOBACCO PROCESSING EQUIPMENT} SANITIZING DIRECTIONS

{To prevent cross contamination, kitchenware and food contact surfaces of equipment must be washed, rinsed with potable water and sanitized after each use and following any interruption of operation during which time contamination may have occurred.}

{Where equipment and utensils are used for preparation of foods on a continuous or production line basis, utensils and the food contact surfaces of equipment must be washed, rinsed and sanitized at intervals throughout the day on a schedule based on food temperature, type of food and amount of food particle accumulation.}

{This product is for use on pre-cleaned 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 500 ppm hardness as CaCO₃. This product has demonstrated greater than 99.999% reduction of organisms after 60 seconds exposure period in the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test.}

For Mechanical Operations: Prepared use solution cannot be reused for sanitizing, but may be reused for other purposes such as cleaning.

For Manual Operations: Fresh cleaning solutions must be prepared daily or more often, if the solution becomes visibly diluted or soiled.

(Note to Reviewer: This statement must appear with any of the Food Contact Sanitizing claims unless already included in the use instructions.)

Prior to application, remove gross food particles and soil by a pre-flush or pre-scrape and when necessary, presoak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner, followed by a potable water rinse before applications of the sanitizing solution.

(Note to Reviewer: On the final printed label either the dilution guide and/or one of the dilution rates (or equivalent use-dilution) will be used. If the dilution guide is used then the 77 – 469 ppm active PAA dilution instruction will be used.)

FOOD CONTACT SANITIZING DILUTION GUIDE {FOR FOOD CONTACT SURFACES, PUBLIC EATING PLACES, DAIRY PROCESSING EQUIPMENT FOOD PROCESSING EQUIPMENT AND UTENSILS}: To prepare a 77, 154, or 469 ppm active PAA solution use the following dilution table. Prepare the correct dilution rate based upon the appropriate use site.

FOOD CONTACT SANITIZING DILUTION GUIDE

Active PAA Solution	1 gal.	6 gal.	10 gal.	20 gal.
77 ppm	0.17 oz.	1.0 oz.	1.7 oz.	2.14 oz.
154 ppm †	0.08 oz.	0.16 oz.	0.8 oz.	1.6 oz.
469 ppm	1.02 oz.	6.1 oz.	10.2 oz.	20.4 oz.

(OR)

1 oz. of this product per 6 gal. of water {(77 ppm active PAA)}{(or equivalent use-dilution)}

(OR)

† 2 oz. of this product per 6 gal. of water {(154 ppm active PAA)} {(or equivalent use-dilution)}

(OR)

6.1 oz. of this product per 6 gal. of water {(469 ppm active PAA)} {(or equivalent use-dilution)}

(OR)

1 – 6.1 oz. of this product per 6 gal. of water {(77 – 469 ppm active PAA)} {(or equivalent use-dilution)}

(† This dilution ratio must be used in CA).

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FOOD CONTACT SANITIZING PERFORMANCE (FOR PUBLIC EATING PLACES, AIRY PROCESSING EQUIPMENT AND FOOD PROCESSING EQUIPMENT, UTENSILS AND OTHER HARD, NON-POROUS FOOD CONTACT SURFACES IN FOOD PROCESSING LOCATIONS, MEAT PLANTS, DAIRIES, BAKERIES, CANNERIES, BEVERAGE PLANTS, RESTAURANTS AND BARS) DIRECTIONS ((REGULATED BY 40 CFR 180.940(a)(c)):

(OR)

TO SANITIZE FOOD CONTACT SURFACES, (FOOD PROCESSING EQUIPMENT) (AND) (OTHER HARD SURFACES IN FOOD PROCESSING LOCATIONS), (DAIRIES), (RESTAURANTS), (BARS), (AND) (IN A THREE COMPARTMENT SINK):

Immerse pre-cleaned glassware, dishes, silverware, cooking utensils and other similar size food processing equipment in a solution of *(insert appropriate dilution here)* for at least 1 minute. Allow sanitized surfaces to adequately drain (and then air dry) before contact with food (so that little or no residue remains). Do not rinse.

For articles too large for immersing, apply a use solution of *(insert appropriate dilution here)* to sanitize hard, non-porous food contact surfaces with a brush, cloth, mop, sponge, auto scrubber, (mechanical spray device, ((hand pump) coarse pump or trigger spray device.} For spray applications, spray 6 – 8 inches from surface. Do not breathe spray}. Surfaces must remain wet for at least 1 minute. Allow sanitized surfaces to adequately drain (and then air dry) before contact with food (so that little or no residue remains). Do not rinse.

Prepare a fresh solution daily or when visibly dirty. For mechanical application, use solution must not be reused for sanitizing applications (but may be used for other purposes such as cleaning).

U.S. PUBLIC HEALTH SERVICE FOOD SERVICE SANITIZATION RECOMMENDATIONS CLEANING AND SANITIZING

1. Thoroughly wash equipment and utensils in a hot detergent solution.
2. Rinse utensils and equipment thoroughly with potable water.
3. Sanitize equipment and utensils by immersion in *(insert appropriate dilution here)* of this product for at least 1 minute at a temperature of 75°F.
4. For equipment and utensils too large to sanitize by immersion, apply use solution of *(insert appropriate dilution here)* of this product by rinsing, spraying or swabbing until thoroughly wetted for 1 minute. Do not breathe spray.
5. (Allow sanitized surfaces to adequately drain (and then air dry) before contact with food.) Do not rinse.
6. Prepare a fresh solution daily or when visibly dirty.

WISCONSIN STATE DIVISION OF HEALTH DIRECTIONS FOR EATING ESTABLISHMENTS

1. Scrape and pre-wash hard, non-porous utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with potable water.
4. Sanitize in a solution of 6.1 oz. of this product per 6 gal. ((469 ppm active PAA)) ((or equivalent use-dilution)) of this product. Immerse all utensils for at least 1 minute or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air-dry.
6. Prepare a fresh solution daily or when visibly dirty.

Note: A clean potable water rinse following sanitization is not permitted under Section HFS 196, Appendix 7-204.11 of the Wisconsin Administrative Code (reference 40 CFR 180.940(a)).

REVERSE OSMOSIS ((RO)), NANO, AND ULTRA FILTRATION CLEANING-SANITIZATION: This product is used in the sanitization of nano filtration ((NF)) and ultra-filtration ((UF)) and reverse osmosis ((RO)) membranes and their associated piping systems. This product is to be added continuously in food, beverage, and drinking water systems for RO ((reverse osmosis)) systems only in accordance with the instructions below. This product is not for use in kidney dialysis equipment. This product will 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 of concentrations of peroxyacetic acid solutions.

Batch Sanitization 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 ((591 ppm active PAA)) for heavily fouled systems. The typical sanitation use solution dosing of this product is 1 – 2 oz. per 5 gal. of water ((92 – 184 ppm active PAA)) ((or equivalent use-dilution)). 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 1 oz. of this product per 5 gal. of feed water ((92 ppm active PAA)). Do not use the intermittent feed method for on-line use of potable water or direct food contact systems. Rinse the system with RO permeate or potable water until residual per oxygen concentration is below 1 ppm.

RO Continuous or Intermittent Addition: For continuous addition methods for RO systems, use 2 – 5 oz. of this product per 430 gal. of process water ((2 – 5 ppm active PAA)) ((or equivalent use-dilution)). For occasional intermittent feed, do not exceed 1 oz. of this product per 5 gal. of feed water ((92 ppm active PAA)). Do not use intermittent feed method for on-line use in potable water or direct food contact systems.

(Note to Reviewer: Text in { } is optional. Brackets [] indicate that at least one option within the brackets must be used in the final label text. Parentheticals () are meant to appear on final label. "This product" can be substituted with actual product name.)

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BEVERAGE DISPENSING AND SANITARY FILLING EQUIPMENT SANITIZER DIRECTIONS: For sanitizing of hard, non-porous bottling or pre-mix dispensing equipment and bottles or cans in the final rinse application. This product is [to be proportioned into the final rinse water line of the container washer or rinser] {for the exterior application for the filler and closing machine}. Fill equipment with a solution of (insert appropriate dilution here) of this product. Surfaces must remain wet for at least 1 minute or until operations resume at which time the sanitizing solution must be drained from the system. Allow sanitized surfaces to adequately drain {and then air dry} before contact with liquid. Do not rinse.

ANTIMICROBIAL RINSE OR PRECLEANED OR NEW RETURNABLE OR NON RETURNABLE CONTAINERS: To reduce the numbers of beverage spoilage organisms, use a 2 to 3% v/v solution, which equals 2.56 – 3.84 oz. of this product to 1 gal. of water {(1180 – 1770 ppm active PAA)} at a temperature range of 46° – 60°C for 30 seconds. Higher dilutions of 1 oz. of this product per gal. of water is effective at 60°C. After adequate draining, rinse interior containers surfaces with sterile or potable water.

{BEER FERMENTATION AND} STORAGE TANK SANITIZER DIRECTIONS: For sanitizing hard, non-porous beer fermentation and holding tanks, wine, citrus and food processing storage and holding tanks. Prepare a solution of (insert appropriate dilution here) of this product for mechanical or automated systems. {Follow manufacturers' directions for use for application equipment.} Surfaces must remain wet for at least 1 minute. Allow sanitized surfaces to adequately drain before contact with [{food} {liquid}]. Do not rinse. For mechanical operations or automated systems, the used sanitizing solution must not be reused for sanitizing, but can be reused for other purposes such as cleaning.

SANITIZING EGG SHELLS INTENDED FOR FOOD DIRECTIONS: To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a solution of (insert appropriate dilution here) of this product. The solution must be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow solution to drain. Eggs sanitized with this product must be subjected to a potable water rinse only if they are to be broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. The solution must not be re-used for sanitizing eggs. Do not breathe spray.
Note: Only clean, whole eggs can be sanitized. Dirty, cracked or punctured eggs cannot be sanitized.

FOR TREATMENT OF [{MEAT} {AND} {POULTRY}, {FRUIT AND VEGETABLE} {OR} {TOBACCO PROCESSING PLANT(S)}] [{CONVEYOR(S)} {BELTS}]: Remove gross food particles and excess soil by a pre-flush or pre-scrape. Wash with a good detergent or compatible cleaner. Rinse equipment thoroughly with potable water and then rinse equipment with a sanitizing solution. During processing apply (insert appropriate dilution here) of this product to conveyors with suitable feeding equipment. Do not allow this solution to be sprayed directly on food. Controlled volumes of sanitizer are applied to return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer from equipment and to prevent puddles on top of belt. During interruptions in operation, apply solution using coarse spray equipment to peelers, collators, slicers and saws, and other non-porous conveyor equipment. Allow surfaces to remain wet for at least 1 minute. Conveyors and other equipment must be free of product when applying this coarse spray. Do not breathe spray.

FUNGICIDAL

(Note to Reviewer: Dilution rates and contact times for insertion into directions below.)

- 2 oz. of this product per gal. of water {(922 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)
- 4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)
- 2 oz. of this product per 5 gal. of water {(184 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes
(OR)
- 1.5 oz. of this product per 5 gal. of water {(138 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes

TO KILL FUNGI:

1. Pre-clean heavily soiled areas.
2. Apply use solution of (insert appropriate dilution here) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, {by immersion}, {auto scrubber}, {{mechanical spray device.} {{hand pump} coarse pump or trigger spray device}. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray.}
3. Treated surfaces must remain wet for (insert appropriate contact time here).
4. [{Wipe dry} {with a clean cloth} {or} {allow to air dry}]. {Rinsing of floors is not necessary unless they are to be coated with finish or restorer.}
5. Prepare a fresh solution daily or when visibly dirty.

ANIMAL PREMISES

(Note to Reviewer: Dilution rates and contact times for insertion into directions below.)

- 4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)
- * Canine Parvovirus only: 4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 5 minutes
(OR)
- 2 oz. of this product per 5 gal. of water {(184 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes
(OR)
- 1.5 oz. of this product per 5 gal. of water {(138 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes

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(Note to reviewer: The following statement will be used on all labels with use directed to animal premises except terrariums, small animal cages, and reptile tanks.)

Prior to use of this product, remove all animals {poultry} and feed from [{premises} {areas to be treated}], animal transportation vehicles {trucks, cars}, and enclosures {coops, crates, kennels, stables}. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by {poultry or other} animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean surfaces with soap or detergent and rinse with water.

FOR USE AS AN ANIMAL PREMISE DISINFECTANT/VIRUCIDE*/{FUNGICIDE}: For heavily soiled areas, a pre-cleaning step is required. Apply a use solution of (insert appropriate dilution here) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, {by immersion}, {mechanical spray device,} {{hand pump} coarse pump or trigger spray device}. Immerse all halters and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in the use solution. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for (insert appropriate contact time here). Ventilate buildings, coops and other closed spaces. Do not house [{animals} {poultry} {livestock}] or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders; fountains and waterers and other treated equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse. {† For use against Canine Parvovirus, prepare a use solution of 4 oz. of this product per gal. of water {(or equivalent use-dilution)} at 5 minutes.}

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with water and this product. Apply a use solution of (insert appropriate dilution here). Apply use solution to wet all surfaces thoroughly. Leave treated surfaces wet for (insert appropriate contact time here). Allow to air dry.

TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION: {Animals frequently defecate on rocks and other hard, non-porous {environmental} cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly, this product can eliminate these high bacteria/ammonia levels in your cage and on your cage furniture items.} (Do not use on porous rocks, hot rocks, or driftwood.)

1. Remove all animals.
2. Thoroughly clean all surfaces and objects {hot rocks, caves, cage furniture, feeding and watering dishes, and appliances} including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all hard, non-porous surfaces {such as floors, walls, cages and other washable hard, non-porous surfaces} with the disinfecting and virucidal* solution of (insert appropriate dilution here) so as to wet thoroughly.
4. Apply by cloth, mop, brush, sponge, auto scrubber, mechanical spray device, {{hand pump} coarse pump or trigger spray device} or by immersion. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution.
5. Allow surfaces to remain wet for a period of (insert appropriate contact time here).
6. Saturate gravel as above and let stand for (insert appropriate contact time here). Place in bucket of clean water and swirl for 15 – 30 seconds. Thoroughly air dry before returning to terrarium.
7. Thoroughly scrub all treated surfaces (except gravel) with soap or detergent and rinse with potable water before reuse.
8. Do not return animals to the habitat until it is dry and ventilated.
9. Clean terrarium at least once weekly or more as needed. Change cloth, sponge or towels frequently to avoid redeposition of soil.
10. Prepare a fresh solution daily or more often if use solution becomes visibly soiled or diluted.

Note: Substrates for desert terrariums (i.e. gravel) must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists. Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately.

REPTILE TANK CLEANING AND DISINFECTION DIRECTIONS: Remove all reptiles from the [{enclosure} {tank}] prior to cleaning and disinfecting. Remove all litter or drippings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply disinfecting and virucidal* solution of (insert appropriate dilution here) {to hard, non-porous surfaces of the enclosure {tank}}. Apply by cloth, mop, brush, sponge, auto scrubber, mechanical spray device, {{hand pump} coarse pump or trigger spray device} or by immersion until thoroughly wet. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray. Allow surfaces to remain wet for (insert appropriate contact time here). Wipe dry {with a paper towel}. Rinse all surfaces that come in contact with food with potable water before reuse. Allow the enclosure {tank} to ventilate for a minimum of 10 – 15 minutes before replacing the reptiles. Prepare a fresh solution daily or when visibly dirty.

Note: Do not apply this product directly onto the reptile. If this product comes into contact with the reptile's skin, then immediately wash the material off of the animal with lukewarm water. If the reptile ingests this product, contact your veterinarian immediately.

POST HARVEST TREATMENTS

Use this product for treatment of waters, as described below, used in handling, processing, packing and storage of raw fruits and vegetables. This product can also be used to control the growth of spoilage and decay-causing bacterial and fungal diseases on post-harvest fruits and vegetables. For post-harvest applications, fruits and vegetables can be sprayed or submerged in the resulting solution for a minimum contact time of 30 seconds, followed by adequate draining.

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FRUIT AND VEGETABLE WATER TREATMENT: This product is used to help control spoilage or decay-causing bacteria and fungi in water or ice that contacts raw unprocessed fruits and vegetables. The commodity must be continuously sprayed using coarse spray, or submerged using a solution containing 1 oz. of this product per 20 gal. of water {(23 ppm active PAA)} {(or equivalent use-dilution)} for a minimum contact time of 30 seconds. Adjust dose as necessary to maintain no more than 25 ppm active PAA. Remove excess water or allow to drain. If using the submersion method, replace with a fresh solution at least daily, or when solution becomes visibly soiled. A final potable water rinse is not required.

TREATMENT OF FRUIT AND VEGETABLE PROCESSING WATERS: Use the product for the treatment of waters used in the processing of raw fruits and vegetables. Mix this product with water either batch-wise or continuously at a rate of 60 – 195 oz. of this product to 1,000 gal. of water {(28 – 90 ppm active PAA)} {(or equivalent use-dilution)}. The fruits and vegetables can be sprayed or submerged in the resulting solution for a minimum contact time of 30 seconds, followed by adequate draining. At this use-dilution this product will control the growth of spoilage and decay causing non-public health organisms in process waters and on the surface of fresh cut or post-harvest fruits and vegetables. This product is not allowed to be used for control of any public health organism on fruit and vegetable surfaces.

FOGGING – NON-PESTICIDAL

{This product can be applied by fogging to control the growth of non-public health microorganisms that can cause decay and/or spoilage on raw, post-harvest fruits and vegetables during the post-harvest process and for fruit and vegetable storage systems.}

ALL SURFACES MUST BE CLEANED AND DISINFECTED IN ACCORDANCE WITH LABEL DIRECTIONS PRIOR TO FOGGING. THIS PRODUCT MAY BE USED FOR THE NON-PESTICIDAL PURPOSE OF CLEANING HARD, NON-POROUS SURFACES. DIRECTIONS FOR FOGGING {IN DAIRIES, BEVERAGE AND FOOD PROCESSING PLANTS}: Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After disinfecting, fog desired areas using one quart of a 0.3% – 1.5% solution of this product {(2 – 10 oz. of this product per 5 gal. of water)} {(or equivalent use-dilution)} per 1,000 cu. ft. of room area. Wear a dust mist respirator when mixing the use-solution and pouring it into the fogging apparatus. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution prior to use. All food contact surfaces must be thoroughly rinsed with potable water prior to sanitizing.

Note: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves, gloves and long pants.

SHOWER ROOMS/LOCKER ROOMS

- (Note to Reviewer: Dilution rates and contact times for insertion into directions below.)*
- 2 oz. of this product per gal. of water {(922 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)
 - 4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 2 minutes
(OR)
 - ‡4 oz. of this product per gal. of water {(1844 ppm active PAA)} {(or equivalent use-dilution)} at 5 minutes
(OR)
 - 2 oz. of this product per 5 gal. of water {(184 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes
(OR)
 - 1.5 oz. of this product per 5 gal. of water {(138 ppm active PAA)} {(or equivalent use-dilution)} at 10 minutes

FOR USE TO CLEAN AND DISINFECT SHOWER ROOMS, LOCKER ROOMS AND OTHER LARGE, OPEN AREAS WITH FLOOR DRAINS:

1. Pre-clean heavily soiled areas.
2. Apply use solution of *(insert appropriate dilution here)* to floors, walls and ceilings using a *{mechanical spray device}* *{hand pump}* *{coarse pump}* *{or}* *{trigger spray device}*. Do not breathe spray and make sure not to over spray. To disinfect, all hard, non-porous surfaces must remain wet for *(insert appropriate contact time here)*.
3. Scrub using a deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.
5. Prepare a fresh solution daily or when visibly dirty.

DEODORIZATION/CLEANING

FOR USE AS A {GENERAL} CLEANER {AND/OR DEODORIZER}: Apply a use solution of 2 oz. of this product per gal. of water to hard, non-porous surfaces. *{Rinse}* *{Wipe up excess liquid {with a paper towel}}* *{and}* *{or}* *{Allow to air dry}*. For heavy-duty use, *{add}* *{mix}* *{apply}* 4 oz. of this product per gal. to clean hard, non-porous surfaces.

TO CLEAN/REMOVE SOAP SCUM: Apply a use solution of 2 oz. of this product per gal. of water onto soils and wipe clean *{with a {dry paper towel} {or} {lint-free cloth} {or} {microfiber cloth} {or} {sponge}}*. No rinsing necessary. *{For best results, use a {dry paper towel} {or} {lint-free cloth} {or} {microfiber cloth} {or} {sponge}.}* Repeat for heavily soiled areas. For stubborn stains or heavily soiled areas or tougher jobs, allow product to penetrate *{dirt}* *{and}* *{or}* *{soap scum}* before wiping. For best results, use regularly to prevent dirt and soap scum build-up.

(Note to Reviewer: Text in { } is optional. Brackets [] indicate that at least one option within the brackets must be used in the final label text. Parentheticals () are meant to appear on final label. "This product" can be substituted with actual product name.)

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GENERAL DEODORIZATION: To deodorize, apply 2 oz. of this product per gal. of water to hard, non-porous surfaces. {{Rinse}} {{Wipe up excess liquid}} {{with a paper towel}} {{and}} {{or}} {{Allow to air dry}}.

GLASS CLEANING/DEODORIZING DIRECTIONS: Use a 2 oz. of this product per gal. of water use solution to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray. Rub with sponge or cloth. Change cloth, sponge or towels frequently to avoid re-deposition of soil.

FOAM CLEANING OF FOOD AND NON-FOOD CONTACT SURFACES: For cleaning and sanitizing procedures this product may be added to Macat® AO-12 {{(amine oxide)}} and foamed on environmental or equipment surfaces using conventional foam generating equipment. The resilient foam blend can be used on equipment, floors, walls, ceilings, drains, etc. and should be left on the surface for a minimum of 1 minute. On food contact surfaces do not exceed 6.1 oz. of this product per 6 gal. of water.

Directions for mixing: Manually or mechanically blend 1 – 6.1 oz. of this product and 6 – 12 oz. of Macat® AO-12 {{(amine oxide)}} {{(foam additive)}} per 6 gal. of water. The dilution water must not exceed 150°F.

BOOSTER FOR ALKALINE DETERGENTS TO CLEAN FOOD PROCESSING EQUIPMENT: This product is an effective oxygen bleach cleaning booster for use with alkaline detergents. For cleaning applications as a detergent booster, use 2 – 7 oz. of this product per gal. of water detergent solution to aid in the removal of organic soils. All hard, non-porous food contact surfaces treated with this boosted detergent must be rinsed thoroughly with potable water rinse followed by sanitizing with an approved food contact surface sanitizer.

BOOSTER FOR ACID DETERGENTS TO CLEAN FOOD PROCESSING EQUIPMENT: This product is an effective oxygen bleach cleaning booster for use with acidic detergents. For cleaning applications as a detergent booster, use 2 – 7 oz. of this product per gal. of water detergent solution to aid in the removal of organic soils. All hard, non-porous food contact surfaces treated with this boosted detergent must be rinsed thoroughly with potable water rinse followed by sanitizing with an approved food contact surface sanitizer.

AGRICULTURAL OR HORTICULTURAL USES

AGRICULTURAL OR HORTICULTURAL USES: There is a Restricted-Entry-Interval (REI) of zero (0) hours after the use of this product. This product must never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this product decomposes rapidly to oxygen, carbon dioxide and water. The product is harmful to fish if exposed on a continuous basis at concentrations of 0.5 ppm or more of PAA. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the target equipment to ensure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required pour product as close to the surface of the water as possible to reduce odor exposure.

TREATMENT OF IRRIGATION WATER SYSTEMS (SAND FILTERS, HUMIDIFICATION SYSTEMS, STORAGE TANKS, PONDS, RESERVOIRS, AND CANALS): For the control of odor, sulfides, slime and algae in water systems, apply this product at 0.4 – 2 oz. of this product per 100 gal. of water {{(2 – 9 ppm active PAA)}} {{(or equivalent use-dilution)}}. This feed rate equals 0.3 – 1.55 gal. per 10,000 gal. of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae some systems will require continuous low level dosing during warm sunny periods.

DRIP IRRIGATION SYSTEM CLEANING: To clean slime and algae from drip system tapes and emitters, meter this product upstream from pumps or filters at the rate of 1 – 2 oz. of this product per 50 gal. of water {{(9 – 18 ppm active PAA)}} {{(or equivalent use-dilution)}}. This feed rate equals 1.55 – 3.1 gal. per 10,000 gal. of dilution water. When required during normal irrigation cycles, use this product at the required dose for a minimum of 30 minutes. Thereafter, the irrigation cycle must be discontinued and the line must not be flushed.

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

FOLIAR SPRAY TREATMENT IN GREENHOUSES (Not for Use in California): This product works immediately on contact with any plant surface for control/suppression of fungi. Apply this product to ornamentals, bedding plants, flowering plants, shrubs, and trees. To ensure that this fungicide is effective, thorough coverage and wetting of the foliage is necessary.

Initial {Curative} Application:

1. Use ¾ – 1½ oz. of this product per gal. of clean water {{(307 – 614 ppm active PAA)}} {{(or equivalent use-dilution)}}. Do not reuse already mixed solution. Make fresh solution at least daily or when use solution becomes visibly dirty, soiled or diluted.
2. Spray, mist or fog plants in the early morning or late evening. Do not breathe spray.
3. Thoroughly wet all surfaces of plant including upper and lower foliage, stems, branches and stalks to ensure full contact with plant and flower tissue.
4. Apply for one to three consecutive days and then follow directions for preventive treatment after the initial application.

Weekly {Preventive} Treatment:

1. Use 0.14 – 0.23 oz. of this product per gal. of clean water {{(64 – 106 ppm active PAA)}} {{(or equivalent use-dilution)}}.
2. Spray, mist or fog plants. Do not breathe spray.
3. Thoroughly wet all surfaces of plant including upper and lower foliage, stems, branches and stalks to ensure full contact with plant and flower tissue.
4. Spray every five to seven days as a Preventive treatment.
5. At the first sign of disease, spray daily with a dilution of ¾ – 1½ oz. of this product per gal. of water {{(or equivalent use-dilution)}} for three consecutive days and then resume weekly Preventive Treatment.

(Note to Reviewer: Text in {} is optional. Brackets [] indicate that at least one option within the brackets must be used in the final label text. Parentheticals () are meant to appear on final label. "This product" can be substituted with actual product name.)

FOLIAR SPRAY TREATMENT FOR FIELD GROWN CROPS, CROPS GROWN IN COMMERCIAL GREENHOUSES OR CROPS GROWN IN SIMILAR SITES (Not for Use in California): This product works immediately on contact with any plant surface for control/suppression of disease. Apply this product to growing crops and nursery stock such as woody ornamentals, bedding plants, flowering plants, roses, container plants, azaleas, rhododendrons, conifers, and shade trees. Use a dilution of 1/8 oz. – 1/4 oz. of this product per gal. of clean water {(or equivalent use-dilution)}. Good coverage and wetting of foliage is required to ensure full contact with plant and flower tissue.

Initial (Curative) Application:

1. Use 3/8 – 1 1/8 oz. of this product per gal. of clean water {(307 – 613 ppm active PAA)} {(or equivalent use-dilution)}. Do not reuse already mixed solution. Make fresh solution at least daily or when use solution becomes visibly dirty, soiled or diluted.
2. Spray, mist or fog plants and trees, including applications through irrigation {(or chemigation)} systems. Do not breathe spray.
3. Thoroughly wet all surfaces of plant, upper and lower foliage, including stems, branches and stalks to ensure full contact with plant and flower tissue.
4. Apply for one to three consecutive days and then follow directions for Preventive Treatment after the initial application.

Weekly Preventive Treatment:

1. Use 3/8 – 1 1/8 oz. of this product per gal. of clean water {(307 – 613 ppm active PAA)} {(or equivalent use-dilution)}.
2. Spray, mist or fog plants and trees, including applications through irrigation {(or chemigation)} systems. Do not breathe spray.
3. Thoroughly wet all surfaces of plant, upper and lower foliage, including stems, branches and stalks to ensure full contact with plant and flower tissue.
4. Spray every five to seven days as a Preventive Treatment.
5. At the first sign of disease spray daily with a dilution of 1 1/8 oz. of this product per gal. of water for three consecutive days and then resume weekly Preventive Treatment.

FOR CUT FLOWERS (Not for Use in California): Use this product to prevent fungal diseases such as *Botrytis*, Downy Mildew and Powdery Mildew on flowers in cold storage or in transit. Apply as a post-harvest treatment. Use a dilution of 0.14 – 0.23 oz. of this product per gal. of clean water {(64 – 106 ppm active PAA)} {(or equivalent use-dilution)}. Spray flowers after grading and prior to storage or shipment. Repeat weekly for flowers in storage. Do not breathe spray.

FOR BARE ROOT NURSERY STOCK (Not for Use in California): Use this product to prevent *Botrytis* on budwood and nursery stock in storage. Use a dilution of 1 1/8 oz. of this product per gal. of water {(or equivalent use-dilution)}. Dip plants or spray until dripping wet. Repeat weekly if necessary. Do not breathe spray.

FOR TURF APPLICATIONS (Not for Use in California): Broad spectrum treatment for control of algae, fungi and bacteria on turf. For use on all turf types such as commercial turf, lawns, athletic fields and golf course fairways, greens and tees. Use this product to control fungi such as: *Anthraxnose*, Brown Spot, Dollar Spot, Copper Spot, Fairy Ring, Pink Snow Mold, *Pythium*, *Phytophthora*, Summer Patch, *Rhizoctonia*, Scum, Take All Patch, *Fusarium* Blight, Stripe Smut, Leaf Spot, Algae, Slime Molds and their spores. This product controls on contact.

FOR TREATMENT OF TURF (Not for Use in California): Use on golf course fairways, greens and tees consisting of Bentgrass, Bluegrass, Bermudagrass, Fescue, Ryegrass, St. Augustine grass and their mixtures to control/suppress algae, bacterial and fungal diseases and the odors and conditions that these organisms may cause. Typical preventive treatment rates involve using 2 – 6 oz. of this product diluted into 3 – 5 gal. of water per approximately 1,000 square feet of turf area. For curative control, 2 – 3 consecutive treatments applied at a rate of 6 – 12 oz. of this product diluted into 3 – 10 gal. of water per 1,000 square feet may be required to eradicate disease. Drench soil to saturate the root systems in affected areas. Add a spreader surfactant for best results. Use spray solution the same day it is prepared. Do not store and reuse mixed spray solution. Refer to manufacturer's direction for specific instructions on using this product through irrigation systems.

Note: Optimum treatment time is early morning or late afternoon. For best results, apply immediately after grass has been cut. Applications can be made during wet or rainy weather. This product can be injected through automatic irrigation systems in turf areas.

FOR SEED BED TREATMENT (Not for Use in California): Prior to sowing seed, use-dilution of 1:50 or 2 1/2 oz. of this product per gal. of clean water. Thoroughly wet or drench the seedbed, to the point of saturation, with 60 – 100 gal. of diluted solution per 1,000 square feet. Let sit for one hour then immediately seed soil. After seeds have germinated, apply a use-dilution of 1:100 or 1 1/4 oz. of this product per gal. of clean water. Lightly spray or irrigate the soil and seedlings until thoroughly wetted. Repeat once a week until seed is well established.

FOR SOIL TREATMENT PRE-INOCULATION WITH BENEFICIAL ORGANISMS (Not for Use in California): Use this product to reduce the number of potential plant pathogenic organisms in the soil that will prevent beneficials from becoming established. Use a dilution of 1:50 or 2 1/2 oz. of this product per gal. of clean water. Thoroughly wet or drench the area to be inoculated. Wait one day before inoculating soil.

FOR GRASSES GROWN FOR SEED OR SOD (Not for Use in California): Treat with 40 – 128 oz. of this product per 100 gal. of water. Apply 50 – 100 gal. of spray solution per acre. Use sufficient water to achieve good coverage. Begin applications during stem elongations. Repeat weekly or as needed. Livestock can graze treated areas.

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FOR DISEASE CONTROL ON FRUIT AND VEGETABLES (Not for Use in California) or curative treatment, spray diseased plants with a 1:100 dilution or 1¼ oz. of this product per gal. of clean water. Apply for three consecutive days and then continue to apply a 1:100 dilution treatment at intervals of 5 – 7 days. For preventive treatment, begin when plants are small. Apply treatments at a dilution of 1:100 or 1¼ oz. of this product per gal. of clean water at 5-day intervals. On the fourth treatment, reduce the dilution rate to 1:300 or 0.5 oz. of this product per gal. of clean water and continue to apply at 5-day intervals until harvest. Do not breathe spray.

SURFACES TREATED TO CONTROL THE SPREAD OF CITRUS CANKER: This product is used to control the spread of citrus canker between inanimate and animate surfaces to plants. This product is for sanitizing surfaces such as packing house conveyors, harvesting equipment and containers. **This product is not for treatment of infected plants.**

PACKING HOUSE SANITIZATION: This product is an effective sanitizer against microorganisms such as *Xanthomonas axonopodis* {(citrus canker)} and *Staphylococcus aureus*, *Escherichia coli* and *Salmonella enterica*.

1. Remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
2. Use this product at a dilution of 1 – 3 oz. of this product per 3 gal. of water {(154 – 461 ppm active PAA)} {(or equivalent use-dilution)} as a general sanitizing coarse spray to reduce bacteria and fungi contamination of walls, floors, conveyors and harvesting containers. Do not breathe spray.
3. Allow sanitizer to contact surface for at least 60 seconds.
4. Allow to air dry. Do not rinse.

FIELD EQUIPMENT SANITIZATION: This product is used to sanitize harvest equipment such as pickers, trailers, trucks {(including truck body parts and tires)}, bins, packing crates, ladders, power tools, gloves, rubber boots, pruning shears or other hard, non-porous equipment that may transfer *Xanthomonas axonopodis* {(citrus canker)}. This product is also used to sanitize hard, non-porous surfaces contaminated with *Staphylococcus aureus*, *Escherichia coli* and *Salmonella enterica*.

1. Before sanitization, move the field equipment in an area with an impervious surface and with controlled drainage. Ensure that no sanitizing solution will be released to the environment.
2. Remove gross contamination with a cleaner or other suitable detergent and rinse with potable water.
3. Use this product at a dilution of 1 – 3 oz. of this product per 3 gal. of water {(154 – 461 ppm active PAA)} {(or equivalent use-dilution)} as a general sanitizing coarse spray. Do not breathe spray.
4. Allow sanitizer to contact surface for at least 60 seconds.
5. Allow to air dry. Do not rinse.

WATER TREATMENT

CONTROL OF SLIME FORMING BACTERIA IN RECIRCULATING AND COOLING WATER SYSTEMS {(COOLING TOWERS, EVAPORATIVE CONDENSERS, AND PASTEURIZERS)}: Severely fouled systems must be cleaned before adding and/or using this product. This product is to be added in the system directly and not mixed with any other chemicals or additives. Discontinue 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 1,000 gal. of process water {(or equivalent use-dilution)}. Repeat as necessary until microbiological control is evident. Thereafter, to maintain control, use 0.33 – 1.5 lbs.(4.5 – 20.5 oz.) of this product per 1,000 gal. of process water {(2 – 9 ppm active PAA)} {(or equivalent use-dilution)} as a continuous or intermittent slug treatment. Continuous dosing methods usually require 4.5 – 11.5 oz. of this product per 1,000 gal. of process water {(2 – 5 ppm active PAA)} {(or equivalent use-dilution)} to achieve adequate control.

Evaporated or Condensed Water: This product may be used to treat sweet or cow water collected from evaporated or condensing water systems in food and dairy plants. Typically, the dosing regime would be using intermittent or continuous methods at 4.5 – 31 oz. of this product per 1,000 gal. of water {(2 – 14 ppm active PAA)}.

~~**REVERSE OSMOSIS (RO), NANO, AND ULTRA-FILTRATION CLEANING-SANITIZATION:** This product is used in the sanitization of nano-filtration (NF) and ultra-filtration (UF) and reverse osmosis (RO) membranes and their associated piping systems. This product is to be added continuously in food, beverage, and drinking water systems for RO {(reverse osmosis)} systems only in accordance with the instructions below. This product is not for use in kidney dialysis equipment. This product will 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 of concentrations of peroxyacetic acid solutions.~~

~~**BATCH SANITIZATION 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 {(560 ppm active PAA)} for heavily fouled systems. The typical sanitation use solution dosing of this product is 1 – 2 oz. of this product per 5 gal. of water {(92 – 184 ppm active PAA)} {(or equivalent use-dilution)}. 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 1 oz. of this product per 5 gal. of feed water {(92 ppm active PAA)}. Do not use the intermittent feed method for on-line use of potable water or direct food contact systems. Rinse the system with RO permeate or potable water until residual per oxygen concentration is below 1 ppm.~~

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RO CONTINUOUS OR INTERMITTENT ADDITION: For continuous addition method, for RO systems, use 2–5 oz. of this product per 430 gal. of process water {(2–5 ppm active PAA)} {(or equivalent use dilution)}. For occasional intermittent feed, do not exceed 1 oz. of this product per 5 gal. of feed water {(92 ppm active PAA)}. Do not use intermittent feed method for on-line use in potable water or direct food contact systems.

BIOFOULING CONTROL IN PULP AND PAPER MILL SYSTEMS: For use in the manufacture of paper and paperboard intended for food contact and non-food contact. This product can be used to control bacteria, fungi, and fresh water organisms in paper, paperboard, or nonwoven process water and influent water systems. Suitable dosing points include but are not limited to: stock chests, pulpers, the white water loop and white water storage systems and influent water streams. Add the product at a point in the system where uniform mixing and even distribution will occur.

INFLUENT WATER SYSTEMS: This product should be continuously fed to incoming fresh water streams {(non-potable use only)} at dosage rates from 10 – 978 ppm active PAA {(200 to 20,000 ppm of this product)}.

MILL PROCESS WATERS

Continuous Feed: This product should be fed continuously at dosages ranging from 10 – 978 ppm active PAA {(200 – 20,000 ppm of this product)}. This range is equivalent to 0.4 – 40 lbs. of this product per ton {(dry basis)} of pulp or paper produced.

Intermittent Feed: This product should be feed intermittently {(6 – 8 times per day)} at dosages ranging from 10 – 978 ppm active PAA {(200 – 20,000 ppm of this product)}. This dosage is equivalent to 0.4 – 40 lbs of this product per ton {(dry basis)} of pulp or paper produced during the feed period.

Shock Dose: This product should be shock dosed at levels ranging from 98 – 1,956 ppm active PAA {(2,000 – 40,000 ppm of this product)}. This dosage is equivalent to 4 – 80 lbs. of this product per ton {(dry basis)} of pulp or paper produced during the feed period.

CONTROL OF BACTERIA AND FUNGI IN NON-FOOD CONTACT DISPERSED PIGMENT: *(Not for use in California)* This product can be used in the control of bacteria and fungi in the manufacture and storage of dispersed pigment such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper product. Add 0.26 – 1.31 lbs. {(3.5 – 17.8 oz.)} of this product to each 1,000 lbs. of pigment slurry. This will provide 14.6 – 73.5 ppm active PAA {(260.7 – 1,312.5 ppm of this product)}.

CONTROL OF BACTERIA AND FUNGI IN COATING PRESERVATION: *(Not for use in California)* Not for the manufacture of material intended for food contact. This product can be used as an in-container preservative for the control of bacteria and fungi in water based coating such as paper coatings. Add 0.26 – 1.31 lbs. {(3.5 – 17.8 oz.)} of this product to each 1,000 lbs. of preservative. This will provide 14.6 – 73.5 ppm active PAA {(260.7 – 1,312.5 ppm of this product)}.

GAS PRODUCTION AND TRANSMISSION PIPELINE AND SYSTEMS

FOR ANTIMICROBIAL USE WITH AQUEOUS TREATMENT FLUIDS IN SUBTERRANEAN OILFIELD AND GAS-FIELD WELL OPERATIONS SUCH AS WELL DRILLING, FORMATION FRACTURING, PRODUCTIVITY ENHANCEMENT AND SECONDARY RECOVERY *(Not for Use in California):* This product can be used in the control of bacteria including slime forming, spoilage and anaerobic sulfate reducing bacteria and fungi {(yeast and molds)} that lead to reservoir souring and metal corrosion. This product must be introduced through a closed mixed/loading and delivery transfer system equipped with a metering device that is appropriate for its intended uses.

DRILLING MUDS, FRACTURING FLUIDS, WELL SQUEEZED FLUIDS *(Not for Use in California):* For the preservation of drilling muds, work over and completion fluids and other products susceptible to contamination, pre-mix with the fluid or add directly at the point of use at 11.4 oz. of this product per 1,000 gal. of water {(5 ppm active PAA)} to 1.8 gal. of this product per 1,000 gal. of water {(106 ppm active PAA)} as required. Depending on the severity of the contamination, initial application may be added up to 17.9 gal. of this product per 1,000 gal. of water {(1056 ppm active PAA)}.

FLOODING, INJECTION AND PRODUCED WATER *(Not for Use in California):* For Water Flooding operations, add initially at 11.4 oz. of this product per 1,000 gal. of water {(5 ppm active PAA)} to 1.8 gal. of this product per 1,000 gal. of water {(106 ppm active PAA)} and repeat until control is achieved. Subsequent treatment may be continued on a weekly basis or as required.

Injection wells associated with gas storage systems may be treated up to 100 ppm active PAA when diluted in the formation water. Any additional top-up water should be treated as required.

For hydrostatic systems, apply 11.4 oz. of this product per 1,000 gal. of water {(5 ppm active PAA)} to 1.8 gal. of this product per 1,000 gal. of water {(106 ppm active PAA)} depending on the water quality and the duration of the shut-in.

PIPELINE AND TANK MAINTENANCE *(Not for Use in California):* For microbial control in water-bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems. Apply 11.4 oz. of this product per 1,000 gal. of water {(5 ppm active PAA)} to 1.8 gal. of this product per 1,000 gal. of water {(106 ppm active PAA)} in the aqueous phase, directly injected into the water-bottom, pipeline or may be added to the hydrocarbon phase. Treatment may be applied daily or monthly for both storage and transportation systems as needed.

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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

{PESTICIDE} STORAGE: Store only in original container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. 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 decomposition, isolate container, douse container with cool water and dilute this product with large volumes of water. Avoid damage to containers. Keep container closed when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F. Do not store on wooden pallets.

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 the 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:

(Note to Reviewer: One or more of the following paragraphs for Container Handling will be selected, depending on packaging use/type.)

{For non-refillable containers equal to or less than 5 gal.}

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

{For non-refillable containers greater than 5 gal.}

Non-Refillable Container. Do not reuse or refill this container. Triple rinse container {(or equivalent)} promptly after emptying. Triple rinse as follows: Fill the container ¼ 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 back and forth several times. Turn the container over onto its other end and tip back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed. May be fatal if inhaled. Do not get into eyes, on skin or on clothing. Do not breathe vapors or spray mist. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

{If container is 5 gal. or larger, the following statement must appear on the label.}

This pesticide is toxic to birds, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination 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 treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

{If container is less than 5 gal., use the following as an alternate to the above statement.}

This pesticide is toxic to birds, fish and aquatic invertebrates.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. CORROSIVE. Mix only with potable water at 60 – 80°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 release could initiate combustion. Never bring this product into contact with other sanitizers, cleaners or organic substances.

{Note to Reviewer: The following Worker Protection Standard (WPS) and Personal Protective Equipment (PPE) language is required for Horticultural and Ornamental Plant uses.}

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear coveralls worn over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear and socks, protective eyewear, chemical-resistant headgear when using this product for algae control in overhead watering system and chemical-resistant apron when mixing, loading or cleaning equipment. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Follow 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. 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. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

{SPANISH ADVISORY STATEMENTS}

{Note to Reviewer: This statement is optional except when used on labels with agricultural uses.}
{SI USTED NO ENTIENDE LA ETIQUETA, BUSQUE A ALGUIEN PARA QUE SE LA EXPLIQUE A USTED EN DETALLE.
IF YOU DO NOT UNDERSTAND THE LABEL, FIND SOMEONE TO EXPLAIN IT TO YOU IN DETAIL.}

GRAPHICS AND ICONS

{Note to Reviewer: These icons have been requested by our customers and will appear on the label with the appropriate directions and/or containers.}

- {Picture of Bathroom}
- {Picture of Gloved Hand and Spray Bottle}
- {Picture of Gloved Hand and Towel}
- {Picture of Sink}
- {Picture of Dishes}
- {Baby Drowning in Bucket Warning Graphic}
- {Recycling Logo}
- {Picture of Mop and Bucket}
- {Picture of Laboratory Equipment}
- {Made in USA Logo/Flag}
- {Disinfectant Logo}

{Note to Reviewer: The following may be used only if the supplemental registrant has obtained a Kosher/NSF listing.}

- {Kosher Logo}
- {NSF Logo}
- {NSF Listed}
- {(Insert 6-Digit NSF Listing Number Here)}