PEROXY PUNCH

Peroxyacetic Acid-Based:

Cleaner - Disinfectant – Food Contact Sanitizer – Deodorizer – Fungistat – Virucide*

For Use In Organic Production

This product is for use on hard, non-porous surfaces In Dairy farms, Wineries, Breweries, Beverage and Food And Beverage Processing Plants, Poultry premise, Farmhouses, Barns, Food Handling and Process Areas, Processing facilities for fish, ice cream and potato plants.

Hard, Non-Porous Surface Disinfection In: Schools, Industrial Facilities, Office Buildings, Veterinary Clinics and Animal Housing.

For use in Schools, Industrial sites, Office Buildings, Veterinary Clinics and Animal Housing Facilities.

Bacteria, Slime, Odor and Algae Control In: Recirculating Cooling Water and Evaporative Coolers, Reverse Osmosis, Nano and Ultra Filtration and Agricultural Waters.

Antimicrobial Agent for use in oilfield and gas field well operations, Oil Field Water Flood/Salt Water Disposal Systems, Fracturing Fluids

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 back of label for additional precautionary statements.

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: 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 emergencies, call **Chemtrec: 800-424-9300,** 24 hours a day, 7 days a week.

Sold By:

FLO-TEC INC. – 2151 34th WAY NORTH, LARGO, FL 33771 – (727) 531-6832

EPA Reg. No.: 10324-214-72160 EPA Est. No.: 72160-FL-1

NET CONTENTS: ☐ 2.5 gallons ☐ 29 gallons ☐ 53 gallons ☐ 265 gallons

SPORICIDAL PERFORMANCE IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions): This product kills and/or inactivates the following spore in 2 minutes at 4 oz. per gal. of 400 ppm hard water (1844 ppm active PAA), on hard, non-porous surfaces: *Clostridium difficile*

DISINFECTION PERFORMANCE IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) AND NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Dairies, Farms, Beverage and Food Processing Plants and Other Non-Medical Facilities): This product kills the following bacteria in 2 minutes at 4 oz. per gal. of 400 ppm hard water (1844 ppm active PAA) and 5% soil, on hard, non-porous surfaces: *Acinetobacter baumannii, Bordetella pertussis, Escherichia coli, Klebsiella pneumoniae, Proteus mirabilis, Pseudomonas aeruginosa, Salmonella enterica, Staphylococcus aureus, Staphylococcus aureus* (CA-MRSA), *Streptococcus pneumoniae, Staphylococcus aureus* (MRSA), *Staphylococcus aureus* (VISA), *Enterococcus faecalis* Vancomycin Resistant (VRE), *Escherichia coli* (Extended Spectrum B-Lactamase) (ESBL), *Klebsiella pneumoniae* Carbapenem Resistant, *Streptococcus pyogenes*

FUNGICIDAL ACTIVITY: This product is effective against the following organism in 10 minutes at 1.5 oz. per 5 gal. of 400 ppm hard water (138 ppm active PAA) and 5% soil, on hard, non-porous surfaces: *Trichophyton mentagrophytes* (Athlete's foot fungus) (a cause of Ringworm)

GENERAL DISINFECTION IN NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage and Food Processing Plants and Other Non-Medical Facilities): This product kills the following bacteria in 10 minutes at 1.5 oz. per 5 gal. of 400 ppm hard water (138 ppm active PAA) and 5% soil, on hard, non-porous surfaces: *Bordetella bronchiseptica, Corynebacterium ammoniagenes, Enterococcus faecalis (VRE), Escherichia coli* O157:H7, *Listeria monocytogenes, Salmonella enterica, Salmonella typhi, Shigella sonnei, Staphylococcus aureus, Staphylococcus aureus* (VISA)

VIRUCIDAL* PERFORMANCE: This product kills the following viruses in 2 minutes at 4 oz. per gal. of 400 ppm hard water (1844 ppm active PAA) and 5% soil, on hard, non-porous surfaces: Adenovirus Type 5 (Strain Adenoid 75), Hepatitis B Virus ǂ (HBV), Hepatitis C Virus ǂ (HCV), Herpes Simplex Virus Type 1, Herpes Simplex Virus Type 2, Influenza A Virus, Norovirus (Norwalk-like Virus), Rhinovirus Type 37, Rotavirus (Strain WA), Vaccinia Virus, Respiratory Syncytial (RSV) Virus, Human Immunodeficiency Virus Type 1 (HIV-1) (AIDS Virus)

ǂ *Indicates a 5-minute contact time is required for this claim.*

ANIMAL PREMISE VIRUCIDAL* PERFORMANCE: This product kills the following viruses in 10 minutes at 2 oz. per 5 gal. of 400 ppm hard water (184 ppm active PAA) and 5% soil, on hard, non-porous surfaces: Avian Adenovirus Virus, Avian Infectious Bronchitis Virus, Avian Influenza A (H5N1) Virus, Infectious Laryngotracheitis Virus, Newcastle Disease Virus, Porcine Rotavirus, Pseudorabies Virus, Vesicular Stomatitis Virus, Transmissible Gastroenteritis Virus (TGE), Porcine Respiratory & Reproductive Syndrome Virus

FOOD CONTACT SANITIZING PERFORMANCE: This product is an effective food contact sanitizer in 1 minute at 1 oz. per 3 gal. of 500 ppm hard water (154 ppm active PAA) on hard, non-porous surfaces: *Aeromonas hydrophila, Clostridium perfringens* – vegetative, *Enterobacter sakazakii, Escherichia coli, Escherichia coli* O26:H11, *Escherichia coli* O45:K-:H-, *Escherichia coli* O103:K.:H8, *Escherichia coli* O111:H8, *Escherichia coli* O121:K-:H10, *Escherichia coli* O145:H28, *Escherichia coli* O157:H7, *Klebsiella pneumonia, Salmonella enterica, Salmonella enterica* serotype *enteritidis, Salmonella typhi, Shigella dysenteriae, Shigella sonnei, Staphylococcus aureus, Xanthomonas axonopodis, Yersinia enterocolitica*

This product is an effective food contact sanitizer in 1 minute at 2 oz. per 6 gal. of 500 ppm hard water (154 ppm active PAA) on hard, non-porous surfaces: *Aeromonas hydrophila, Clostridium perfringens* – vegetative, *Enterobacter sakazakii, Escherichia coli, Escherichia coli* O26:H11, *Escherichia coli* O45:K-:H-, *Escherichia coli* O103:K.:H8, *Escherichia coli* O111:H8, *Escherichia coli* O121:K-:H10, *Escherichia coli* O145:H28, *Escherichia coli* O157:H7, *Klebsiella pneumoniae, Salmonella enterica, Salmonella enterica* serotype *enteritidis, Salmonella typhi, Shigella dysenteriae, Shigella sonnei, Yersinia enterocolitica*

This product is an effective food contact sanitizer in 1 minute at 1 oz. per 6 gal. of 500 ppm hard water (77 ppm active PAA) on hard, non-porous surfaces: *Aeromonas hydrophila, Clostridium perfringens* – vegetative, *Enterobacter sakazakii, Escherichia coli, Escherichia coli* O26:H11, *Escherichia coli* O45:K-:H-, *Escherichia coli* O103:K.:H8, *Escherichia coli* O111:H8, *Escherichia coli* O121:K-:H10, *Escherichia coli* O145:H28, *Escherichia coli* O157:H7, *Klebsiella pneumoniae, Salmonella enterica, Salmonella enterica* serotype *enteritidis, Salmonella typhi, Shigella dysenteriae, Shigella sonnei, Yersinia enterocolitica*

MARKETING CLAIMS

This product is for use on hard, non-porous surfaces in transportation terminals, public facilities, shipping terminals, travel rest areas, ships, trains, taxis, airplanes, helicopters, garbage trucks, maintenance vehicles, EMS & fire facilities, emergency vehicles, police cars, police stations, crime scenes, courthouses, correctional facilities, municipal government buildings, prisons, jails, penitentiaries, correctional institutions, athletic facilities, recreational facilities, day care centers, funeral homes, morgues, mortuaries, burial vaults, Hotels, motels, Museums, art galleries, performance/theater centers, movie houses, bowling alleys, restaurants, bars, kitchens, taverns, cafeterias, institutional kitchens, fast food operations, food storage areas, catering, bakeries, schools, colleges, dormitories, classrooms, community colleges, universities, sports arenas, sports complexes, retail and wholesale establishments, veterinary clinics, kennels, animal breeding facilities, grooming establishments, pet animal quarters, animal housing facilities, zoos, pet shops, public restrooms, commercial recirculating cooling water towers and once through fresh water cooling systems (Not for use in cooling towers, water cooling systems in CA.), pharmaceutical manufacturing facilities, bathrooms, shower rooms, homes, households, condos, apartments, kitchens, dairy, equine, poultry/turkey farms, farmhouses, barns, sheds, tool sheds, cattle, swine, sheep, and horse barns, pens and stalls, swine quarters, livestock farms, equine quarters, brooder houses, seed houses and veal, calving, hog, cattle and horse operations, chick vans, egg trucks, hatchery and farm vehicles, federally inspected meat and poultry plants, food establishments, wineries, USDA inspected food-processing

facilities, egg processing plants, poultry and turkey farms, farms, dairy farms, hog farms, rendering plants, poultry and animal dressing plants, canneries, meat packing plants, hide and leather processing plants. Processing facilities for fish, milk, citrus, wine, fruit, vegetable, ice cream and potato and beverage plants. Poultry premise (hatcheries), swine premise, and tobacco plant premises. Hospitals, nursing homes, medical and dental offices and clinics, healthcare facilities, physician offices, operating rooms/theaters, radiology rooms, isolation wards, quarantine areas, hospices, medical research facilities, washing areas, ICU areas, autopsy rooms, acute care institutions, alternate care institutions, home healthcare institutions, sick rooms, life care retirement communities, elder care facilities, patient care rooms & facilities, recovery rooms, emergency rooms, x-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, respiratory therapy, surgical centers, out-patient surgical centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms, and ophthalmic/optometric facilities.

MATERIAL COMPATIBILITY: Not recommended for use on copper, brass, granite, marble or zinc. Do not use on unsealed/uncoated marble or unsealed/uncoated terrazzo floors. **NOTE:** This product is compatible with the listed materials. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

DISINFECTION MARKETING CLAIMS: This product cleans, disinfects and deodorizes hard, non-porous surfaces by killing many odor-causing microorganisms. Concentrated broad-spectrum disinfectant/virucide* with efficacy against Clostridium difficile spores. Economical concentrate sporicide designed for daily cleaning and easy on surfaces. Effective against Multidrug Resistant Organisms (MDROs), Staphylococcus aureus, MRSA, CA-MRSA, Intermediate Vancomycin Resistance, Enterococcus faecalis, Escherichia coli. Has demonstrated effectiveness against Influenza A (H1N1) Virus. Helps prevent cross-contamination on hard, non-porous surfaces. This product Is a broad-spectrum hard surface disinfectant that has been shown to be effective against Influenza A (H1N1) and other similar viruses.

SANITIZATION MARKETING CLAIMS: *Escherichia coli (E. coli), Salmonella enterica, and Staphylococcus aureus (Staph)* are common germs found where food is prepared and stored. Eliminates 99.999% of bacteria commonly found on kitchen surfaces. 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 78º – 110º F. Is effective as a sanitizer when solution is prepared in water of up to 500 ppm hardness as CaCO3. This product 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 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.

WATER TREATMENT MARKETING CLAIMS (Not for use in CA.): This Product is an antimicrobial Agent for use in oilfield and gas field well operations, Oil Field Water Flood/Salt Water Disposal Systems, Fracturing Fluids. A Water Treatment Microbiocide for Industrial and/or Commercial Recirculating Cooling Water Towers, Retort Water Systems and Oil Field Water Flood/Salt Water Disposal Systems and Fracturing Fluids. This Product can be used for Bacteria, Slime, Odor and Algae Control In: Recirculating Cooling Water and Evaporative Coolers, Reverse Osmosis, Nano and Ultra Filtration and Agricultural Waters. Controls Algae and Algal Slime Growth in Industrial and/or Commercial Recirculating Cooling Water Towers and Once Through Freshwater Cooling Systems. For thermal processing/pasteurizing operations within farms, soft drink and food canning plants to reduce the number of living algae, bacteria and fungi. Do not use in any system which may come in contact with food. This product is a microbiocide that helps clean and loosen slime debris from cooling and flooding system surfaces. Is a water treatment microbiocide that will control algae and bacterial slimes found in recirculating cooling tower waters and oil field water flood. This product aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, industrial and commercial cooling towers. To control algae and bacterial slimes, use this water treatment microbiocide as directed.

POST-HARVEST MARKETING CLAIMS: 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. Use this product for treatment of waters, used in handling, processing, packing and storage of raw fruits and vegetables. Can also be used to control the growth of spoilage and decay-causing bacterial and fungal diseases on post-harvest fruits and vegetables.

GENERAL MARKETING CLAIMS: This product can be applied through foaming apparatus, low-pressure sprayers and fogging wet misting systems. Follow manufacturers' instructions when using this equipment. Clear drying formula. Evaporates completely. Fragrance free. This product leaves no visible residue and no rinsing. No harsh alcohol smell or no harsh bleach smell. This product is non-abrasive and non-flammable.

CLEANING AND DEODORIZATION MARKETING CLAIMS: This product eliminates odors caused by bacteria and non-fresh foods leaving restroom and kitchen surfaces smelling clean and fresh. 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. Inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. (Not for use in CA.)

DIRECTIONS FOR USE

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

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.

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.

DILUTION TABLE:

USE	DILUTION	CONTACT TIME
SPORICIDAL CLAIMS		
(1844 ppm active PAA)	4 oz. / gal. water	2 minutes
DISINFECTION FOR HOSPITAL OR MEDICAL ENVIRONMENT CLAIMS		
1844 ppm active PAA	4 oz. / gal. water	2 minutes
GENERAL OR BROAD SPECTRUM CLAIMS		
(138 ppm active PAA)	1.5 oz. / 5 gal. water	10 minutes
PUBLIC HEALTH VIRUCIDAL* CLAIMS		
1844 ppm active PAA	4 oz. / gal. water	2 minutes
ANIMAL VIRUCIDAL* CLAIMS		
184 ppm active PAA	2 oz. / 5 gal. water	10 minutes
FUNGICIDAL CLAIMS		
138 ppm active PAA	1.5 oz. / 5 gal. water	10 minutes

HOSPITAL/HEALTH CARE/MEDICAL/NON-MEDICAL:

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 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 ONE-STEP, HOSPITAL, MEDICAL DISINFECTANT, VIRUCIDE*, FUNGICIDE, CLEANER:

1. Pre-clean heavily soiled areas.
2. Apply use solution of 4 oz. of this product per gal. of water (1844 ppm active PAA) (or equivalent use-dilution) at 2 minutes 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 2 minutes.
4. Allow to air dry.
5. Prepare a fresh solution daily or when visibly dirty.

BLOODBORNE PATHOGEN INSTRUCTIONS:

***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.

Cleaning Procedure: Blood and other body fluids 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, 5 minutes for HBV and HCV at 4 oz. of this product per gal. of water (1844 ppm active PAA) (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 4 oz. of this product per gal. of water (1844 ppm active PAA) (or equivalent use-dilution) at 2 minutes. 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, 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 2 minutes. 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 GENERAL DISINFECTANT, CLEANER:

1. Pre-clean heavily solied areas.
2. Apply 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, coarse pump or trigger spray device. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray.
3. Rub with brush, cloth, or sponge.
4. Surfaces must remain wet for 10 minutes.
5. Allow to air dry.
6. Prepare a fresh solution daily or when visibly dirty.

SANITIZING

FOOD CONTACT AND TOBACCO PROCESSING EQUIPMENT SANITIZING DIRECTIONS

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.

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.

FOOD CONTACT SANITIZING DILUTION TABLE 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 TABLE

Active PAA Solution	1 gal.	6 gal.	10 gal.	20 gal.
77 ppm	0.17 oz.	1 oz.	1.7 oz.	3.4 oz.
154 ppm	0.34 oz.	2.0 oz.	3.4 oz.	6.8 oz.
469 ppm	1.02 oz.	6.1 oz.	10.2 oz.	20.4 oz.

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 1 oz. of this product per 6 gal. of water (0.17 oz. per gal. of water) (77 ppm active PAA) (or equivalent use-dilution) 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 1 oz. of this product per 6 gal. of water (0.17 oz. per gal. of water) (77 ppm active PAA) (or equivalent use-dilution) to sanitize hard, non-porous food contact surfaces with a brush, cloth, mop, sponge, auto scrubber, mechanical spray device, 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 2 oz. of this product per 6 gal. of water (0.34 oz. per gal. of water) (154 ppm active PAA) (or equivalent use-dilution) for at least 1 minute at a temperature of 75º F.
4. For equipment and utensils too large to sanitize by immersion, apply use solution of 2 oz. of this product per 6 gal. of water (0.34 oz. per gal. of water) (154 ppm active PAA) (or equivalent use-dilution) 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.

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 2 oz. of this product per 6 gal. of water (0.34 oz. per gal. of water) (154 ppm active PAA) (or equivalent use-dilution). 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.

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 20º 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.

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. Fill equipment with a solution of 2 oz. of this product per 6 gal. of water (0.34 oz. per gal. of water) (154 ppm active PAA) (or equivalent use-dilution). 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.

FINAL SANITIZING BOTTLE RINSE: This product may be used as a final sanitizer rinse, followed by adequate draining for returnable and non-returnable bottles at 1.1 – 6.5 oz. of this product to 6 gal. of water (82-500 ppm active PAA).

ANTIMICROBIAL RINSE OR PRECLEANED OR NEW RETURNABLE OR NONRETURNABLE CONTAINERS: To reduce the numbers of beverage spoilage organisms, use 1.1 – 6.5 oz. of this product to 6 gal. of water (82-500 ppm active PAA). at a temperature range of 46º – 60º C for 30 seconds. Higher dilutions of 1 oz. of this product per gal. of water is effective at 60º 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 1 oz. of this product per 6 gal. of water (0.17 oz. per gal. of water) (77 ppm active PAA) (or equivalent use-dilution) for mechanical or automated systems. Surfaces must remain wet for at least 1 minute. Allow sanitized surfaces to adequately drain before contact with food and 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 1 oz. of this product per 6 gal. of water (0.17 oz. per gal. of water) (77 ppm active PAA) (or equivalent use-dilution). The solution must be warmer than the eggs, but not to exceed 130 ₣. 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, SEAFOOD, POULTRY, FRUIT AND VEGETABLE, NUTS OR TOBACCO PROCESSING PLANTS, CONVEYORS AND 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 1 oz. of this product per 6 gal. of water (0.17 oz. per gal. of water) (77 ppm active PAA) (or equivalent use-dilution) 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

TO KILL FUNGI:

1. Pre-clean heavily soiled areas.
2. Apply use solution of 1.5 oz. of this product per 5 gal. of water (138 ppm active PAA) (or equivalent use-dilution) at 10 minutes to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, 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 10 minutes.
4. 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

Prior to use of this product, remove all animals, poultry and feed from areas to be treated, animal transportation vehicles, 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 2 oz. of this product per 5 gal. of water (184 ppm active PAA) (or equivalent use-dilution) at 10 minutes to disinfect hard, non-porous surfaces with a sponge, brush, cloth, by immersion, mechanical spray device, 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 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals 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.

VEHICLES: To clean all hard, non-porous surfaces on vehicles including mats, crates, cabs, and wheels, use a use solution of 2 oz. of this product per 5 gal. of water (184 ppm active PAA) (or equivalent use-dilution) at 10 minutes. Apply use solution to wet hard, non-porous surfaces thoroughly. Leave treated surfaces wet for 10 minutes. 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 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 2 oz. of this product per 5 gal. of water (184 ppm active PAA) (or equivalent use-dilution) at 10 minutes so as to wet thoroughly.
4. Apply by cloth, mop, brush, sponge, auto scrubber, mechanical spray device, 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 10 minutes.
6. Saturate gravel as above and let stand for 10 minutes. 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 2 oz. of this product per 5 gal. of water (184 ppm active PAA) (or equivalent use-dilution) at 10 minutes to hard, non-porous surfaces of the enclosure/tank. Apply by cloth, mop, brush, sponge, auto scrubber, mechanical spray device, 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 10 minutes. Wipe dry. 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

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 80 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 per 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.

POST-HARVEST SPRAY TREATMENT

Use this product to prevent bacterial and fungal diseases on post-harvest fruits and vegetables. Mix 0.31 – 0.51 oz. of this product per gal. of clean water. Spray fruit or vegetables to the point of runoff using a mechanical spray device, coarse pump or trigger spray device. For spray applications, spray 6 – 8 inches from surface. Do not breathe spray.

SPRAY TREATMENT OF SEED POTATOES

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

Crop	Disease	Application Rate	Directions
Seed Potatoes	Bacteria Soft Rot Bacterial Ring Bacterial Ring Rot Early Blight Fusarium Dry Rot Late Blight Rot Silver Scurf	As a Dip: Use 1.12 – 2.24 oz. of this product per gal. of water (1:114 – 1:57 dilution). As a spray: Use 11.2 – 22.456 oz. of this product in 10 gal of water (1:114 – 1:57 dilution).	Dip whole or cut tubers in the solution for 1-5 minutes. Inject this product directly into the spray bar water supply. Spray solution directly onto tubers to achieve full and even coverage (0.25 – 1.0 gal. of spray per ton of potatoes).

SPRAY TREATMENTS FOR NEWLY HARVESTED POTATOES BEFORE STORAGE:

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

Crop	Disease	Application Rate	Directions
Potatoes (Processing Seed and Table Stock)	Bacteria Soft Rot Bacterial Ring Bacterial Ring Rot Early Blight Fusarium Dry Rot Late Blight Rot Silver Scurf	Use 1.12 – 2.24 oz. of this product per gal. of water (1:114 – 1:57 dilution) per ton of potatoes	Spray diluted solution directly onto tubers to achieve full and even coverage (0.5 – 2 gal. of spray per ton of potatoes). The use of additional surfactant is acceptable to aid in sticking.

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

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

Crop	Disease	Application Rate	Directions
Potatoes (Processing, Seed and Table Stock)	Bacteria Soft Rot Bacterial Ring Bacterial Ring Rot Early Blight Fusarium Dry Rot Late Blight Rot Silver Scurf	Use 1.12 – 2.24 oz. of this product per gal. of water (1:114 – 1:57 dilution) per ton of potatoes	Inject concentrate into makeup water used in humidification of post-harvest potatoes in storage.

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.

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.

FOGGING OF POTATOES IN STORAGE (Not for use in CA.)

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

1. Before fogging, cover any metal equipment or controls inside the storage area or plenum chamber that might be sensitive to hydrogen peroxide and/or peracetic acid.
2. Ensure proper ventilation in the room/area to be treated.
3. Remove all personnel from the room before fogging.
4. Use 0.56 – 1.12 oz. of this product per ton of potatoes (11.6– 23.2 oz. per 1000 ft^3 of potatoes or 2.2-4.4 gal. per 10,000 CWT of potatoes).
5. Mix the product concentrate with water at 1:2.3 or 1:6.87 ratio and apply it as a fog directly into the plenum while operating the fans at low speed. To improve fog distribution, a carrier solution that is compatible with this product, and approved for use on potatoes may be added following the recommendations of the fogging equipment manufacturer.
6. After fogging, do not allow personnel to reenter the treated area until the fog has dissipated and there are no strong odors remaining.
7. Make the first fog application immediately after potatoes enter storage (within 5-7 days) and repeat applications once every month or as necessary while potatoes remain in storage.

FOGGING OF FRUITS AND VEGETABLES IN STORAGE (Not for use in CA.)

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

1. Before fogging, cover any metal equipment or controls inside the storage area or plenum chamber that might be sensitive to hydrogen peroxide and/or peracetic acid.
2. Ensure proper ventilation in the room/area to be treated.
3. Remove all personnel from the room before fogging.
4. Mix the product concentrate with potable water at 1:250 – 1:320 ratio (0.40-0.51 oz. per gal.) and apply it as a fog directly into the plenum while operating the fans at low speed. To improve fog distribution, a carrier solution that is compatible with this product, and approved for use on produce may be added following the recommendations of the fogging equipment manufacturer.
5. After fogging, do not allow personnel to reenter the treated area until the fog has dissipated and there are no strong odors remaining .
6. Make the first fog application immediately after produce enters storage (within 5-7 days) and repeat applications once every month or as necessary while produce remains in storage.

FOGGING FOR REGULAR CLEANING OF FRUITS AND VEGETABLE STORAGE SYSTEMS AND POTATO STORAGE AREAS BEFORE LOADING WITH PRODUCE (Not for use in CA.)

This product may be used for fogging (wet misting) to prevent or control the growth of non-public health organisms that cause spoilage and/or decay of produce, following cleaning procedures in hard room surfaces using any type of fogging equipment such as thermo foggers and cold foggers.

1. Before fogging, cover any metal equipment or controls inside the storage area or plenum chamber that might be sensitive to hydrogen peroxide and/or peracetic acid. Remove or cover any food or packaging materials with waterproof coverings. Thoroughly clean all surfaces. Remove gross soil particles from surface to be treated.
2. Ensure proper ventilation in the room/area to be treated.
3. Remove all personnel from the room before fogging.
4. Fog the area at 1:250 – 1:320 ratio (0.40-0.51 oz. per gal.) and apply it as a fog directly into the plenum while operating the fan at low speed. To improve fog distribution, a carrier solution that is compatible with this product, and approved for use on produce may be added following the recommendations of the fogging equipment manufacturer.
5. After fogging, do not allow personnel to reenter the treated area until the fog has dissipated and there are no strong odors remaining.

RESTROOM/BATHROOM

TOILET BOWL AND URINAL DISINFECTANT/CLEANING DIRECTIONS: Remove heavy soil prior to disinfection. Empty water out of toilet bowl or urinal and apply 4 oz. of this product per gal. of water (1844 ppm active PAA) (or equivalent use-dilution) at 2 minutes to exposed surfaces, including under the rim with a toilet brush, cloth, or sponge, coarse pump or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Brush or swab thoroughly, then allow solution to stand for 10 minutes and flush.

TO CLEAN WATERFREE /WATERLESS URINALS: Remove any debris from the urinal. Spray 0.5 to 1 oz. of use solution onto urinal surface. To prepare use solution: Add 0.5 oz. of this product per gal. of water (or equivalent use dilution) (850 ppm active). DO NOT spray product directly onto cartridge. Wipe surface to clean. Change cartridge as needed. The unit is ready for use.

TO DISINFECT TUBS, SHOWER STALLS, SINKS, FAUCETS: Pre-clean heavily soiled areas. Apply a use solution of 0.5 oz. of this product per gal. of water (or equivalent use dilution) on all hard, non-porous surfaces with a brush, cloth, mop, sponge, coarse pump or trigger spray device. For spray applications, spray 6-8 inches from surface. Wipe surfaces. Allow surface to remain wet for at least 10 minutes. Allow to air dry. Rinse thoroughly with water. Change cloth, sponge or towels frequently to avoid redeposition of soil. Prepare a fresh solution daily or when visibly dirty.

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 4 oz. of this product per gal. of water (1844 ppm active PAA) (or equivalent use-dilution) at 2 minutes to floors, walls and ceilings using a mechanical spray device 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 2 minutes.
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. Allow to air dry. For heavy-duty use, 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 lint-free cloth or sponge. No rinsing necessary. Repeat for heavily soiled areas. For stubborn stains or heavily soiled areas or tougher jobs, allow product to penetrate dirt and soap scum before wiping. For best results, use regularly to prevent dirt and soap scum build-up.

GENERAL DEODORIZATION: To deodorize, apply 2 oz. of this product per gal. of water to hard, non-porous surfaces. 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 procedures this product may be added to Macat® AO-12 (amine oxide) and foamed on hard, non-porous or equipment surfaces using 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 (foam additive) per 6 gal. of water. The dilution water must not exceed 150º 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 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 CA.): 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 ⅔ – 1⅓ 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 ⅔ – 1⅓ oz. of this product per gal. of water (or equivalent use-dilution) for three consecutive days and then resume weekly Preventive Treatment.

FOLIAR SPRAY TREATMENT FOR FIELD GROWN CROPS, CROPS GROWN IN COMMERCIAL GREENHOUSES OR CROPS GROWN IN SIMILAR SITES (Not for use in CA.): 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 ⅛ oz. – 1¼ 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 ⅔ – 1⅓ 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 ⅔ – 1⅓ 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 1⅓ 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 CA.): 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 CA.): Use this product to prevent *Botrytis* on budwood and nursery stock in storage. Use a dilution of 1⅓ 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 CA.): 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: Anthracnose, 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 CA.): 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 CA.): Prior to sowing seed, use-dilution of 1:50 or 2½ 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 1¼ 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 CA.): 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 2½ 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 CA.): 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.

FOR DISEASE CONTROL ON FRUITS AND VEGETABLES (Not for use in CA.): For 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.

WATER TREATMENT (Not for use in CA)

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).

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 fed 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 CA.): 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 CA.): 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 CA.): 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 CA.): 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 CA.): 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 CA.): 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.

OTHER USES

DISINFECTION OF POTATO, FRUIT AND VEGETABLE STORAGE AREAS AND EQUIPMENT

This product is an effective disinfectant for produce storage areas and equipment after the produce is removed.

1. Remove all produce potatoes, fruits and/or vegetables before disinfecting the storage areas and equipment.
2. For heavily soiled areas, pre-wash the area.
3. Cover any metal equipment or controls inside the storage area or plenum chamber that might be sensitive to hydrogen peroxide and/or peracetic acid.
4. Ensure adequate ventilation in room or area to be treated.
5. Remove all personnel from the room before fogging.
6. Mix 1.14 oz. of this product per gal. of water. Apply by cloth, mop, brush, sponge, auto scrubber, mechanical spray device, 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 10 minutes.
7. Thoroughly rinse all treated surfaces with potable water before resuming operations.

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

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)

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).

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.

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.

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.

CONTAINER HANDLING:

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

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.

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

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.