

10324-164

08/18/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

AUG 18 2008

Ms. Elizabeth Tannehill
Mason Chemical Company
721 W. Algonquin Road
Arlington Heights, IL 60005

Subject: Maquat 256 PD
EPA Registration No.: 10324-164
Amendment Date: April 30, 2008
EPA Receipt Date: May 21, 2008

Dear Ms. Tannehill,

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

- Addition of marketing statements and use sites

Conditions

Revise the label as follows:

1. Delete the reference to treatment of artificial turf from page four as well as the directions associated with this use on page twenty two. The Agency is not accepting claims for disinfection of artificial turf at this time. It is believed that a more thorough evaluation of the post application exposure, environmental concerns, and efficacy considerations must be addressed prior to accepting this claim. Any Registrants with product labels currently in the market place with such a claim will be notified and asked to remove the claim pending a complete review associated with this use.
2. Revise the statement on page four, left column which begins: "This product may be applied through immersion tanks..." by deleting the reference to immersion tanks as your label does not include directions for treatment by this method. The Agency interprets treatment by immersion tank as quite different from treatment by immersion, typically in a small sink.

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- 3) Delete the claim for "Hospital Pharmacy Compounding" on page five, left column in the section beginning "This product is a disinfectant and non-food contact sanitizer for Hospital Pharmacy Compounding..." This section is not descriptive enough to prohibit the use of this product on surfaces that contact drugs. If you would like to revise this section in the future to include this claim, you must include language that assures that surfaces which contact drugs are not being treated with the disinfectant/non-food contact sanitizer. The Agency does not have adequate information to determine if treatment of the listed surfaces would result in this product being in direct contact with a drug intended for human consumption. In addition, please revise to read as follows: "...BioSafety Cabinet work surfaces including countertops, sinks, plumbing fixture surfaces and *exterior surfaces* of incubators, refrigerators and Centrifuge surfaces..."
- 4. Delete the "Note" under the "Surgical Instrument Presoak" directions on page eight. Plastic surgical instruments cannot remain immersed until ready to use. They must be sterilized before they can be reused in a surgery. This product is not an approved liquid chemical sterilant.
- 5. Revise the "Ultrasonic Bath", "Fiberglass Bath and Therapy Equipment," "Hard, Nonporous Surfaces on PPE," and all the "Food Processing Premises" disinfection directions on pages eight and nine by adding the statement, "Add 3/4 oz per gallon of water for HBV and HCV mitigation."
- 6. Revise the "Restroom/Bathroom" directions on pages seventeen and eighteen by adding the statement, "Add 3/4 oz per gallon of water for HBV and HCV mitigation."
- 7. Revise the "Toilet Bowls/Urinals" directions on page seventeen by deleting the statement, "then remove or expel over the inner trap the residual bowl water," and state "Empty the bowl by forcing water through the trap."
- 8. Revise the "Disinfect/Deodorize" directions under "Directions for Household Use" on page twenty-one by adding the statement, "Add 3/4 oz per gallon of water for HBV and HCV mitigation."
- 9. Revise the "Sanitization of Exterior Household Surfaces" directions on page twenty-one. Delete the reference to the treatment of **turf**, which is not an exterior household surface and indicate that the user must wear protective eyewear as well as respiratory protective equipment.

General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

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If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Jacqueline McFarlane at (703) 308-6416.

Sincerely,



Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

Enclosure: Stamped Label

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MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-164

E.P.A. Est. No. 10324-IL-1

MAQUAT® 256 PD

Net Contents:

Batch No:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin or on clothing. 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.

(If container is 5 gallons or larger the following statement must appear on the label.)

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. 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

Do not use or store near heat or open flame.

Do not mix with oxidizers, anionic soaps and detergents.

(If the container is greater than one gallon use the following storage and disposal statements.)

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. Store in a dry place no lower in temperature than 50°F or higher than 120°F. Do not reuse empty 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 DISPOSAL (Larger than 1 gal.): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(If container is one gallon or less use the following storage and disposal statements.)

STORAGE AND DISPOSAL

Store in original container and place in locked storage area. Keep from freezing. Do not contaminate water, food, or feed by storage or disposal. Small spills may be mopped up or flushed away with water or absorbed on some absorbent material. Wrap container and put in trash. Securely wrap original container in several layers of newspaper and discard in trash.

PACKET DISPOSAL: Do not reuse. Discard empty container and put in trash.

PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.

DETERGENT/DISINFECTANT

Cleaner, Disinfectant, Detergent, Fungicide (against Pathogenic fungi), Deodorizer, Sanitizer, Virucide*, Mildewstat (on hard inanimate surfaces) – For Hospitals, Nursing Homes, Whirlpool, Home, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use.

Athletic Surface Disinfection.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

Small Fly Ovicidal Treatment.

ACTIVE INGREDIENTS:

n-Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈)

dimethyl benzyl ammonium chloride..... 6.25%

n-Alkyl (68% C₁₂, 32% C₁₄)

dimethyl ethylbenzyl ammonium chloride..... 6.25%

INERT INGREDIENTS: 87.50%

TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

See left (back) (side) (right) panel (of label) (below) for additional precautionary and first aid statements.

First Aid

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. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

(Note to Reviewer: This information has been verified per EPA regulations. It is NOT required to be on the label but is being requested by a customer.)

Transportation Information

DOT Hazard Class: Not Applicable

DOT Proper Shipping Name: Not Applicable

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

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(Note to reviewer: The Table of Contents will not be on any label. This is for our customer's reference only. The page numbers will change as the label changes.)

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ORGANISM LIST

(Note: For reference use only. This is a list of all organisms covered by this label. Please see appropriate Directions for Use for proper use dilution.)

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) AND NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage, Food Processing Plants and Other Non-Medical Facilities): This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum against:

Corynebacterium ammoniagenes (ATCC 6872)
Enterococcus faecalis (ATCC 29212)
Enterococcus faecalis (Vancomycin resistant) – VRE (ATCC 51299)
Escherichia coli (ATCC 11229)
Klebsiella pneumoniae (ATCC 4352)
Legionella pneumophila (ATCC 33153)
Proteus mirabilis (ATCC 9240)
Pseudomonas aeruginosa, PRD-10 (ATCC 15442)
Salmonella enterica (ATCC 10708)
Salmonella schottmuelleri (ATCC 8759)
Serratia marcescens (ATCC 14756)
Shigella dysenteriae (ATCC 11835)
Staphylococcus aureus (Methicillin resistant) (ATCC 33592)
Staphylococcus aureus (Vancomycin resistant) – VISA (HIP 5836)
Staphylococcus aureus (ATCC 6538)
Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)
Streptococcus faecalis
Streptococcus salivarius (ATCC 7073)

VIRUCIDAL PERFORMANCE: This product was evaluated in the presence of 5% serum and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian Influenza A (H5N1) virus
Avian Influenza A/Turkey/Wisconsin virus (ATCC VR-798)
Adenovirus Type 2 (causative agent of upper respiratory infections)
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes simplex, Type 1 (causative agent of fever blisters)
Herpes simplex, Type 2
HIV-1 (AIDS Virus)
Human Coronavirus
Influenza A2 /Japan (representative of the common flu virus)

ANIMAL PREMISE VIRUCIDAL PERFORMANCE: This product was evaluated in the presence of 5% serum and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian Influenza A (H5N1) virus
Avian Influenza A/Turkey/Wisconsin virus (ATCC VR-798)
Avian Reovirus (ATCC VR-2449)
Bovine Viral Diarrhea Virus (ATCC VR-534)
Canine Coronavirus
Canine Distemper virus
Equine Arteritis Virus
Infectious Avian Laryngotracheitis virus
Infectious Bovine Rhinotracheitis virus (IBR)
Infectious Bronchitis Virus
Newcastle disease virus
Porcine Respiratory & Reproductive virus (PRRSV)
Porcine Rotavirus
Pseudorabies virus
Transmissible Gastroenteritis (TGE) virus
Vaccinia Virus (representative of the pox virus group)

NON-FOOD CONTACT SANITIZATION PERFORMANCE: This product is an effective one-step sanitizer on hard, non-porous environmental surfaces against:

Klebsiella pneumoniae
Staphylococcus aureus

FUNGICIDAL PERFORMANCE: This product was found to be effective against the following on hard, non-porous environmental surfaces:

Aspergillus niger (ATCC 6275)
Trichophyton mentagrophytes (ATCC 9533)

MARKETING CLAIMS

Maquat® 256PD for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, radiology rooms, isolation wards and medical research facilities, hospices.
- Patient care rooms & facilities, recovery (rooms), anesthesia, Emergency Rooms, X-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection

rooms, central supply, housekeeping & janitorial rooms, ophthalmic/optometric facilities.

- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, carts, gurneys, stretchers, police cars, fire trucks.
- Day care centers and nurseries, sick rooms, elder care centers, kindergartens, and preschools.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities.
- Restaurants, restaurants and bars, bars, taverns, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza stores, liquor stores.
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms, cadaver processing areas.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households), condos, apartments, vacation cottages, summer homes.
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, fieldhouses.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, warehouses.
- Health clubs, spas, tanning spas, tanning beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Humidifier water tanks.
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants,

meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants, canneries, caterers, bakeries.

- Processing facilities for Fish, Milk, Citrus, Wine, Fruit, Vegetable, Ice Cream and Potatoes and beverage plants.
- Tobacco plants premise.
- Veterinary clinics, animal life science laboratories, animal research centers, animal quarantine areas, animal breeding facilities, animal grooming areas, animal holding areas, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities.
- Farmhouses, barns, sheds, tool sheds, cattle barns, swine barns, sheep barns, horse barns, brooder houses.
- Household and automotive garages, boats, ships, barges, watercraft, campers, RV's, trailers, mobile homes, cars, automobiles, automobile interiors, trucks, delivery trucks, boxcars, tankers, tank trucks, buses, trains, taxis and airplanes, helicopters.
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms, porches.

This product may be used on washable hard, non-porous surfaces such as:

- Storage areas.
- Kitchen equipment such as trash compactors.
- Countertops (counters), stovetops (stoves), sinks (bathroom, kitchen), tub surfaces and exterior surfaces of Slurpee® machines, appliances, refrigerators, ice machines.
- Hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, cervical collars, 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.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Highchairs, baby cribs, diaper changing stations, infant bassinets/cribs/warmers/incubators/care equipment, folding tables, laundry pails.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet seats, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, glazed porcelain, glazed tile and restroom fixtures.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble, plastic, (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl, Plexiglass®, vanity tops.
- Tables, chairs, desks, folding tables, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, trash barrels, trash cans, trash containers, cuspidors and spittoons.
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery, washable wallpaper.

- Foundations, steps, plumbing fixtures, finished baseboards, and windowsills.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning, refrigeration equipment and heat pumps.
- Large, inflatable, non-porous plastic and rubber structures: animals, promotional items, moonwalks, slides, obstacle course play, exercise equipment.
- Hard non-porous surfaces of picnic tables and outdoor furniture or Non-wooden picnic tables and outdoor (patio) furniture, except cushions and wood frames. (Note: Only one statement will be used on label.)
- Telephones and Telephone booths.
- External lenses vision correction including eyeglasses, (not for use on contact lenses), protective eyewear, goggles, light lens covers, optical instruments/implements.
- Hair clippers, cutting implements, plastic rollers, washable nail files.
- Hard hats, headphones.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring, x-ray tables.
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.
- Crypton Barrier fabric.
- Artificial turf surfaces.

This product contains no phosphorous.

This product is a phosphate-free formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

This product delivers non-acid disinfection performance in an economical concentrate.

This product is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

This product is a complete, chemically balanced disinfectant/sanitizer that provides clear use solutions.

This product may be applied through immersion tanks, foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems. Follow manufacturers' instructions when using this equipment.

Use this product on the multi-touch surfaces responsible for cross-contamination.

This product is for use as a disinfectant on hard, non-porous surfaces (at 488 ppm active). A potable water rinse is required after application on food contact surfaces.

This product is for use as a sanitizer on hard, non-porous, non-food contact surfaces (732 ppm active). A potable water rinse is required.

This product meets AOAC efficacy standards for hard surface, non-food contact sanitizers.

This product meets AOAC efficacy standards for hard surface sanitizers.

One-step cleaner.

Cleans and shines.

Antibacterial.

Cross-contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces not only in hospitals, but also in schools, institutions and industry.

This product is an effective non-food contact sanitizer in the presence of soils.

This product is an effective disinfectant/non-food contact sanitizer in the presence of 5% serum contamination.

This product is for use in kitchens, bathrooms, and other household areas.

This product is a multi surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non-food contact glass surfaces.

This product may be used in work areas such as tool rooms and garages for odor control and light duty cleaning.

Cleans everyday kitchen messes.

Cleans kitchen surfaces and food preparation areas.

Great for use (on) (in) the (kitchen), (bathroom), (floors) and other household areas. Removes (eliminates) odors. Deodorizes. Will not harm most surfaces.

Will not harm most surfaces. For a cleaner, fresher household. Removes stains. Removes dirt. Non-staining. Clear formula.

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grime.

Disinfects (and Sanitizes) kitchen surfaces (bathroom surfaces and floors). Sanitizes kitchen surfaces (bathroom surfaces and floors). Kills germs. Kills household bacteria.

Kills common kitchen (bathroom) germs (and viruses*).

This detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, food processing plants, food service establishments and other institutions where housekeeping is of prime importance.

This product is a concentrated Hospital Use disinfectant that is effective against a broad spectrum of bacteria, is virucidal*, (and) fungicidal, and eliminates odor causing bacteria when used as directed.

For larger areas, such as operating rooms and patient care facilities, this product designed to provide both general cleaning and disinfection.

Will not cause swelling of transducer membrane or harm compressor plates.

This product is a versatile sanitizer and broad-spectrum disinfectant formulated for use in Ultrasonic Baths (Ultrasonic cleaning units).

Kill Avian Influenza on pre-cleaned environmental surfaces.

This product is a versatile cleaner, sanitizer and broad-spectrum disinfectant formulated for use on bath and therapy equipment (Whirlpools).

This product is a one-step disinfectant that is effective against a broad spectrum of bacteria, is virucidal* (including HIV-1, HCV & HBV) and inhibits the growth of mold and mildew and their odors when used as directed.

Hospital Use Disinfectant. Institutional Disinfectant (Sanitizer).

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants.

Efficacy tests have demonstrated that this product is an effective bactericide and virucide* in the presence of organic soil (5% blood serum).

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing (Duck) Hepatitis B Virus.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus).

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Human (and Canine) Coronavirus.

This product is a disinfectant and non-food contact surface sanitizer for Hospital Pharmacy Compounding, Cleanroom, and Laboratory areas to disinfect washable, hard, non-porous surfaces such as: Laminar-airflow equipment and BioSafety Cabinet work surfaces and exterior surfaces including countertops, sinks, plumbing fixture surfaces, Incubators, Refrigerators and Centrifuge surfaces of metal, stainless steel, glass, plastic (such as polystyrene or polypropylene), Formica®, and vinyl.

Use this product 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.)

This product maximizes (improves) labor results by effectively controlling odors.

When used as directed, this product will deodorize surfaces in restroom and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

This product controls (reduces) (eliminates) (neutralizes) (destroys) odors to make your home (kitchen) (bathroom) sanitary.

This product neutralizes musty odors and tough odors from smoke, pet accidents, and spills on contact.

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew.

This product is effective against household germs and odors caused by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors.

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *(This statement is not applicable in California.)*

This product is for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors.

This product is effective at controlling mold and mildew odor on shower curtains.

This product provides long lasting freshness against tough (pet) odors such as odors from litter boxes and pet accidents.

This product cleans, shines, deodorizes and disinfects the hard, non-porous surfaces specified on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

Eliminates odors caused by bacteria (and) (mildew) (and) (non-fresh foods). Kills odor causing bacteria in the kitchen (bathroom).

This product is for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

This product will not leave a grit or soap scum.

This product is a no rinse disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step.

Kills Athlete's Foot fungus on bathroom surfaces.

This product is a versatile Disinfectant & Sanitizer for Veterinarian, Veterinary Practice, Animal Care, Animal Laboratory, and Agricultural and Farm Premise applications.

This product cleans by removing dirt, grime, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities. It (also) eliminates odors leaving surfaces smelling clean and fresh.

This product can be used to disinfect, clean and deodorize terrarium and small animal cages, hot rock, substrate and cage furniture (plastic terrarium ornaments, driftwood, heat caves and water dishes. *(Use on rocks and driftwood not allowed in California)*

This product has been designed for veterinarians, animal groomers, hair stylists, barbers and beauticians, for use in disinfecting and maintaining clippers. It acts as a virucide and bactericide while also cleaning. Regular use will help to maintain blades that operate with reduced friction and with smoother clipping action. Will help to prolong equipment life. This product is designed for use in pet salons, animal hospitals, barber and beauty shops. When used as directed it will disinfect metal clipper blades as well as many other hard, non-porous surfaces.

This product cleans rodent soiled areas.

This product is for use in Poultry Premise Sanitation (Hatcheries)

Egg Receiving Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Area	Chick Loading Area
Setter Room	Hatchery Room	Poultry Buildings

This product is for use in Swine Premise Sanitation:

Farrowing Barns and Areas	Dressing Plants	Blocks
Waterers and Feeders	Loading Equipment	Creep Area
Hauling Equipment	Nursery	Chutes

Floor cleaner.

This product is effective against the control of small flies on floors, walls, drains, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas.

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses.

When used as directed, this product will disinfect hard, non-porous surfaces such as flower buckets, floors and walls of coolers, design and packing benches and countertops.

This product may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop.

Use This product to clean, disinfect and deodorize flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors may develop.

This product may be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, green house packing areas and other commercial floriculture

places for efficient cleaning and antimicrobial action against certain bacteria which cause: (Not for use in California.)

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips.
2. Production of ethylene gas, which may injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria.

Use this product to disinfect non-porous salon/barber tools and instruments such as combs, brushes, scissors, clippers, plastic rollers, trimmers, razors, blades, tweezers and manicure/pedicure instruments, and footbath surfaces.

Use this product to sanitize and disinfect non-porous salon/barber tools and instruments such as combs, brushes, scissors, clippers, plastic rollers, trimmers, razors, blades, tweezers and manicure/pedicure instruments.

Use this product to clean, sanitize and disinfect hard, non-porous surfaces of personal protective 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.)

This product provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.

Controls the growth of odor-causing and slime-forming bacteria used in waterbed uses. Controls odors caused by bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals.

Escherichia coli (E. coli) and *Staphylococcus aureus* (Staph) are common bacteria found where food is prepared and stored. This product kills these bacteria and helps prevent cross contamination on (treated) kitchen surfaces listed on this label. A potable water rinse is required after application as a disinfectant on food contact surfaces.

DIRECTIONS FOR USE

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

DISINFECTION/FUNGICIDAL DIRECTIONS: Add ½ ounce per gallon of water (or equivalent use dilution) (488 ppm active quat) to disinfect hard, non-porous surfaces. Apply use solution to hard inanimate, non-porous surfaces, thoroughly wetting surfaces as required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications use a coarse pump or trigger sprayer device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. Allow surfaces to remain wet for 10 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

Note: With spray applications cover or remove all food products. For heavily soiled areas, a preliminary cleaning is required.

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) AND NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage, Food Processing Plants and Other Non-Medical Facilities): At ½ oz per gallon of water dilution (488 ppm active

quat), with a 10-minute contact time, this product exhibits effective disinfectant activity against the following:

(OR)

FOR SCHOOLS, INDUSTRY AND NON-MEDICAL INSTITUTIONAL USES: For heavily soiled areas, a preliminary cleaning is required. This product delivers cleaning and disinfection effectiveness. Apply a ½ ounce per gallon of water solution (or equivalent use dilution) (488 ppm active quat) to hard non-porous surfaces. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. Prepare a fresh solution at least daily or if solution becomes diluted or soiled.

Corynebacterium ammoniagenes (ATCC 6872)

Enterococcus faecalis (ATCC 29212)

Enterococcus faecalis (Vancomycin resistant) – VRE (ATCC 51299)

Escherichia coli (ATCC 11229)

Klebsiella pneumoniae (ATCC 4352)

Legionella pneumophila (ATCC 33153)

Proteus mirabilis (ATCC 9240)

Pseudomonas aeruginosa, PRD-10 (ATCC 15442)

Salmonella enterica (ATCC 10708)

Salmonella schottmuelleri (ATCC 8759)

Serratia marcescens (ATCC 14756)

Shigella dysenteriae (ATCC 11835)

Staphylococcus aureus (Methicillin resistant) (ATCC 33592)

Staphylococcus aureus (Vancomycin resistant) – VISA (HIP 5836)

Staphylococcus aureus (ATCC 6538)

Community Associated Methicillin Resistant *Staphylococcus aureus* (CA-MRSA)

Streptococcus faecalis

Streptococcus salivarius (ATCC 7073)

VIRUCIDAL PERFORMANCE: The product when used on environmental inanimate hard surfaces at ½ oz per gallon of water (488 ppm active quat) and a 10-minute contact time exhibits effective virucidal* activity against:

(OR)

At ½ ounce per gallon use level (or equivalent use dilution), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian Influenza A (H5N1) virus

Adenovirus Type 2 (causative agent of upper respiratory infections)

Herpes simplex, Type 1 (causative agent of fever blisters)

Herpes simplex, Type 2

HIV-1 (AIDS Virus)

Human Coronavirus

Influenza A2/Japan (representative of the common flu virus)

(OR)

At ¾ ounce per gallon use level with a 10-minute contact time, this product is effective against the following:

Avian Influenza A/Turkey/Wisconsin virus (ATCC VR-798)

Hepatitis B Virus (HBV)

Hepatitis C Virus (HCV)

NON-FOOD CONTACT SANITIZATION PERFORMANCE: At ¾ oz per gallon of water (732 ppm active) and a 60-second contact time, this product is an effective one-step sanitizer against:

Staphylococcus aureus

Klebsiella pneumoniae

FUNGICIDAL PERFORMANCE:

Aspergillus niger (ATCC 6275)

Trichophyton mentagrophytes (ATCC 9533)

FUNGICIDAL PERFORMANCE: At ½ ounce per gallon use-level (or equivalent use dilution) (488 ppm active quat) with a 10-minute contact time, this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) and Aspergillus niger on inanimate surfaces in locker rooms, dressing rooms, shower and bath areas and exercise facilities. Preclean all surfaces prior to using this product.

(OR)

At this level the product is also fungicidal against the pathogenic fungi, Trichophyton mentagrophytes in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

CLEANING AND DISINFECTION: For heavily soiled areas, a pre-cleaning step is required. For one step cleaning and disinfecting, use ½ ounce of this product per 1 gallon of water (or equivalent use dilution) (488 ppm active quat). Apply use solution using a cloth, mop, or pressure sprayer as to thoroughly wet surface(s) to be disinfected/cleaned. For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes and then air dry. Prepare a fresh solution after each use. (Alternate Statement: Prepare a fresh solution at least daily or when solution becomes visibly dirty or diluted.)

(OR)

FOR USE AS A ONE-STEP CLEANER/DISINFECTANT:

1. Pre-clean heavily soiled areas.
2. Apply use solution (½ ounce per gallon) (488 ppm active quat) (or equivalent use dilution) to hard, non-porous environmental surfaces.
3. To disinfect, all surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces or let air dry.

Note: All food contact surfaces such as appliances and kitchen countertops must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A: For use in homes, hospitals, hotels, motels and schools, the directions for hospital disinfection must be followed using a rate of ¾ oz per gallon of water. (OR) For use in animal housing facilities, follow the animal premise directions.

PREPARATION OF NON-FOOD CONTACT SANITIZER USE SOLUTION: With spray applications, cover or remove all food products. Add ¾ ounces of this product to 1 gallon of water (or equivalent use dilution) (732 ppm active) to sanitize hard, non-porous surfaces. Apply sanitizer use solution to pre-cleaned, hard non-porous nonfood surfaces with a cloth, mop, sponge, sprayer or by immersion.

For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface and rub with brush, sponge or cloth. Do not breathe spray.

Treated surfaces must remain wet for 60 seconds, then wipe with sponge, mop or cloth or allow to air dry.

Disinfection and Fungicidal Dilution Chart

Ounces of Product	Amount of Water
1/8 ounce	1 quart
¼ ounce	½ Gallon
½ ounce	1 gallon
1½ ounces	3 gallons
2½ ounces	5 gallons
5 ounces	10 gallons

HOSPITAL/HEALTH CARE/INSTITUTIONAL

(Note for reviewer: For labels that list medical premises and metal and/or stainless steel surfaces, one of the following 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 may be used to preclean 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 or medical equipment surfaces.

HOSPITALS, DENTAL OFFICES, NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS (For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard, non-porous surfaces): To disinfect hard, inanimate surfaces (such as walls, floors, table tops), add ½ oz. detergent/disinfectant (this product) per (to) gallon of water (488 ppm active quat) (or equivalent use dilution) (OR mix ½ oz. packet with one gallon of water). Apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow (treated surfaces) to remain wet for 10 minutes and then let air dry. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

At ½ ounce per gallon (or equivalent use dilution) (488 ppm active quat) in the presence of 5% blood serum and 400 ppm of hardness for a 2-minute contact time this product was found to be effective against HIV-1 (AIDS Virus).

At ¾ ounce per gallon of water (or equivalent use dilution) (732 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (Duck) Hepatitis B Virus with a contact time of 10 minutes.

At ¾ ounce per gallon of water (or equivalent use dilution) (732 ppm active quat) in the presence of 5% organic load this product was proven to be effective against Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

(OR)

At ¾ ounce per gallon of water (or equivalent use dilution) (732 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (Duck) Hepatitis B Virus and Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

***KILLS HIV, HCV and HBV 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 inanimate 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, HCV AND HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

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Personal Protection: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, and eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.

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

Contact Time: Leave surfaces wet with ½ ounce per gallon of water solution (488 ppm active quat) (or equivalent use dilution) for 2 minutes for HIV. This contact time will not control other common types of viruses and bacteria. Leave surfaces wet with a ¾ ounce per gallon of water solution (732 ppm active quat) (or equivalent use dilution) for ten minutes for HBV and HCV.

SURGICAL INSTRUMENT PRESOAK: Add ¾ ounce of this product to 1 gallon of water (or equivalent use dilution) (732 ppm active quat). Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

Note: Plastic instruments can remain immersed until ready to use. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments.

ULTRASONIC BATH DISINFECTANT DIRECTIONS: Use this product to disinfect hard (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution of ½ ounce per gallon of water (or equivalent use dilution) (488 ppm active quat) directly into bath chamber. Preclean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visibly dirty or discolored.

FOR DISINFECTING HARD, NON-POROUS (FIBERGLASS) BATH AND THERAPY EQUIPMENT: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add ½ ounce of this product for each gallon of water (or equivalent use dilution) (488 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solutions from the unit and rinse any/all disinfected (cleaned) surfaces with fresh water. The unit is ready for reuse.

CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS): Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply ¾ ounce per gallon of water (732 ppm active) (or equivalent use dilution) solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces must remain wet for ten (10) 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).

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN INSTITUTIONAL FACILITIES

ULTRASONIC BATH SANITIZER DIRECTIONS: Use this product to sanitize hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of ¾ ounce per gallon of water (or equivalent use dilution) (732 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 60 seconds, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visibly dirty or discolored.

FOOD PROCESSING PREMISES

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from room or carefully protected. A potable water rinse is required after use as a disinfectant.

TO DISINFECT FOOD-PROCESSING AND TOBACCO PREMISES: Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, add ½ ounce of this product to one gallon of water (or equivalent use dilution) (488 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow surface to remain wet for 10 minutes. Then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

TO DISINFECT FOOD SERVICE ESTABLISHMENT FOOD CONTACT SURFACES: For countertops, exterior surfaces of appliances, and tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. Add ½ ounce of this product to one gallon of water (or equivalent use dilution) (488 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications use a coarse spray device. Allow surface to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. After use, all surfaces in the area must be thoroughly rinsed with potable water.

FOR USE ON NON-FOOD CONTACT SURFACES AS A GENERAL DISINFECTANT IN THE BREWERY INDUSTRY: Use ½ ounce of this product per gallon of water (or equivalent use dilution) (488 ppm active quat). Follow the Disinfectant directions above.

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 cleaning, fog desired areas using one quart per 1000 cubic feet of room area with a product solution containing 1¼ ounces product to 1 gallon of water (or equivalent use dilution) (1,220 ppm). 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. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution prior to use. Allow food contact surfaces to drain thoroughly before operations are resumed.

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

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building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

DISINFECTING POTATO STORAGE AREA AND EQUIPMENT: Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow general disinfecting directions as outlined in that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

FOR CONTROL OF THE DROSOPHILA SPP. AND PHORIDAE FAMILY OF FLIES ON NON-FOOD CONTACT SURFACES: To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of ½ ounce of this product per gallon of water (or equivalent use dilution) (488 ppm active quat) to surfaces and locations where flies may breed. Spray surfaces thoroughly or apply by pouring, mopping or sponging onto the surface. Repeat application 1-2 times per week or as needed. Do not contaminate food and food packaging.

FOR CONTROL OF SMALL FLIES IN DRAINS: For control of small flies: Drosophila spp. and the Phoridae family. Spray or pour solution of ½ ounce per gallon of water (or equivalent use dilution) (488 ppm active quat) into drain during time of lowest level of drain use. Add 14 ounces of solution daily to each drain to maintain fly control. Apply around the edge of the drain and coat all sides of inside of drain.

**SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES
IN FOOD PROCESSING FACILITIES**

SHOE (BOOT) BATH SANITIZER DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made sanitizing solution must be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in ¾ ounces of this product per 1 gallon (or equivalent use dilution) (732 ppm active quat) of water solution for 60 seconds prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

SHOE FOAM DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of ¾ to 1.125 ounces per gallon of water (or equivalent use dilution) (732 to 1098 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacturer of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 60 seconds prior to entering area. Foam area must be washed and replaced at least daily or when it appears dirty.

(For food processing or other facilities that have installed entryway sanitizing systems.)

ENTRYWAY SANITIZING SYSTEMS: To prevent cross contamination from area to area, set the system to deliver (¾ oz. per gallon of water) (or equivalent use dilution) (732 ppm active) of sanitizing solution. The (spray) (foam) must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

FOOD PROCESSING PLANTS USING FOGGING DEVICES

For use 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 cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 1¼ ounces of product to 1 gallon of water (or equivalent use dilution) (1,220 ppm). 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. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.

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 and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

MUSHROOM FARM INDUSTRY USE DIRECTIONS

Site Preparation: The first step in any on going sanitation program must be the removal of gross contamination and debris. This may be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

Disinfection: Use ½ ounce of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces must be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use.

For Heavy Duty Cleaning: When greater cleaning is desired, use 1 ounce of this product per gallon of water (or equivalent dilution). Heavily soiled areas may require repeated cleaning before treatment.

DO NOT APPLY TO THE MUSHROOM CROP, COMPOST OR CASING. Rinse treated surfaces with potable water before they contact the crop, compost or casing.

ANIMAL PREMISES

ANIMAL VIRUCIDAL PERFORMANCE: The product when used on environmental inanimate hard surfaces at ½ oz per gallon of water exhibits effective virucidal* activity against:

(OR)

At ½ ounce per gallon use level (or equivalent use dilution) (488 ppm active quat), this product was evaluated in the presence of 5% serum with a 10 minutes contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian Influenza A (H5N1) virus
Canine Coronavirus
Vaccinia Virus (representative of the pox virus group)

(OR)

At ¾ ounce per gallon use level (or equivalent use dilution) (732 ppm active quat) with a 10-minute contact time, this product is effective against the following:

Avian Influenza A/Turkey/Wisconsin virus
Avian Reovirus (ATCC VR-2449)
Bovine Viral Diarrhea Virus (ATCC VR-534)
Canine Distemper virus
Equine Arteritis Virus

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Infectious Avian Laryngotracheitis virus
Infectious Bovine Rhinotracheitis virus (IBR)
Infectious Bronchitis Virus
Newcastle disease virus
Porcine Respiratory & Reproductive virus (PRRSV)
Porcine Rotavirus
Pseudorabies virus
Transmissible Gastroenteritis (TGE) virus

VETERINARY CLINICS/ANIMAL LIFE SCIENCE LABORATORY/ ANIMAL CARE FACILITIES/ANIMAL RESEARCH CENTERS/ANIMAL LABORATORY/ANIMAL QUARANTINE AREAS/ ANIMAL BREEDING FACILITIES/ANIMAL HUSBANDRY/ZOOS/PET SHOP/KENNELS/ BREEDING AND GROOMING ESTABLISHMENTS/TACK SHOPS DISINFECTION DIRECTIONS:

For cleaning and disinfecting the following hard, non-porous surfaces: Equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure. Ventilate buildings 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, automatic feeders, waterers and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

RENDERING PLANT/DRESSING PLANT DISINFECTANT/FUNGICIDE/VIRUCIDAL DIRECTIONS (DRESSING PLANT AND RENDERING PLANT DISINFECTANT – FUNGICIDE – VIRUCIDE DIRECTIONS): Preclean all surfaces before using this product. Disinfect walls and floors in poultry and animal dressing plants. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials before disinfection. Remove all gross soils. Saturate all surfaces with the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution). Scrub to loosen all soils. Allow treated surfaces to soak for 10 minutes (Surfaces must remain wet for 10 minutes) and thoroughly rinse all wetted and cleaned surfaces with potable water before operations are resumed.

TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION (Use on rocks and driftwood not allowed in California.): Animals frequently defecate on hot rocks and other 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.

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 surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.

4. 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.
5. Do not return animals to the habitat until it is dry and ventilated.
6. Thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.
7. Clean terrarium at least once weekly or more as needed.

Note: 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. 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.

REPTILE TANK CLEANING AND DISINFECTION DIRECTIONS: Remove all reptiles from the enclosure (tank) prior to cleaning and disinfecting. Remove all litter or droppings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) to the surfaces of the enclosure (tank) until thoroughly wet. 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.

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.

FARM PREMISE DISINFECTION DIRECTIONS

FARM PREMISE DISINFECTION DIRECTIONS: Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use solution of the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

(OR)

FOR USE IN EQUINE, DAIRY AND HOG FARMS:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the disinfecting or virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.

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7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS: Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles and other environmental surfaces may be required. Empty all troughs, racks, and other feeding and watering appliances. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) and allow surfaces to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

FOR USE IN THE TREATMENT OF ANIMAL HOUSING FACILITIES:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal solution (0.75 oz. per gallon of water) (or equivalent dilution) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

POULTRY (AND SWINE) PREMISE SANITATION SITE PREPARATION

Site Preparation: The first step in any on-going sanitation program must be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly clean all surfaces with soap or detergent and rinse with water.

DISINFECTION/FUNGICIDE/VIRUCIDE OF POULTRY/TURKEY EQUIPMENT, SWINE QUARTERS, LIVESTOCK FARMS, EQUINE QUARTERS, ANIMAL QUARTERS AND KENNELS DIRECTIONS: Prior to use, remove all poultry, other animals, and their feeds from premises, vehicles (trucks and 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 all surfaces with soap or detergent and rinse with water. Use disinfecting and virucidal solution (0.75 oz. per

gallon of water) (or equivalent dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings, coops and other closed spaces. Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers and other equipment which may contact food or water) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

HATCHERIES: Use 0.75 oz. per gallon of water (or equivalent dilution) to treat the following hard, non-porous surfaces: hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, trash containers, carts, sexing tables, delivery trucks, vans and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray. Use 0.75 oz. per gallon of water (or equivalent dilution) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more and allow to air dry.

DISINFECTANT DIRECTIONS FOR CHICK VANS, EGG TRUCKS HATCHERY and FARM VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. Use 0.75 oz. per gallon of water (or equivalent dilution) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. For sprayer applications, use a coarse spray device.

DISINFECTANT/VIRUCIDAL* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES OF AUTOMATED TRAY, RACK AND BUGGY WASHERS: Mix a solution containing 0.75 oz. per gallon of water (or equivalent dilution). Remove all litter and manure from surfaces to be treated. Treat hard non-porous, non-food contact surfaces of automated trays, racks and buggy washers into solution for 10 minutes. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty.

DISINFECTANT/VIRUCIDAL* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES IN EGG RECEIVING AND EGG HOLDING AREAS: Mix a solution containing 0.75 oz. per gallon of water (or equivalent dilution). Remove all litter and manure from surfaces to be treated. Saturate hard non-porous, non-food surfaces with the solution for a period of 10 minutes. Apply by mop, brush or sprayer. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty.

SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A: Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with the disinfecting solution (¾ oz per gallon of water) (732 ppm active quat) (equivalent use dilution) for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN ANIMAL PREMISES

TO SANITIZE HOOF TRIMMING EQUIPMENT: Prior to application, pre-clean hoof trimming equipment before and after use on each animal with detergent and warm water or compatible cleaner to remove soil using a pre-scrape, pre-flush, or when necessary, pre-soak followed by a potable water rinse. To sanitize, prepare a ¼ oz of this product per 1 gallon of water solution (732 ppm active quat) (or equivalent use dilution). Apply to pre-cleaned hard surfaces using a cloth, mop, sponge or sprayer or by immersion to thoroughly wet surfaces. Allow surfaces to remain wet for at least 5 minutes followed by adequate draining or air drying. Prepare fresh solution at least daily or when solution becomes visibly dirty.

SANITIZING HATCHERY ROOMS USING FOGGING DEVICES

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 44.5 ounces of this product to 1 gallon of water (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not allow people to contact or breathe this fog and do not enter until 2 hours after fogging is complete. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 8 ounces of this product to 128 ounces of water. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breathe this fog. It is acceptable to fog setters and hatchers with a ¼ ounce per gallon solution of this product (or equivalent use dilution) on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is complete, ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Do not allow people to contact or breathe this fog and do not enter until 2 hours after fogging is complete. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs.

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 and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

BARBER/SALON

DISINFECTION/FUNGICIDE/VIRUCIDE FOR BARBER/SALON TOOLS

DIRECTIONS: Immerse pre-cleaned barber/salon tools, such as combs, brushes, razors, clipper and trimmer blades, tweezers, manicure/pedicure tools and scissors in a ½ ounce per gallon solution of the product (or equivalent use dilution) (488 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

(OR)

DISINFECTING/VIRUCIDE GROOMING CLIPPERS: Remove hair, dandruff and dust particles while disinfecting the blades. Turn the clipper off occasionally during use and spray between the teeth of blades a solution of ½ ounce per gallon of water (or equivalent use dilution) (488 ppm active quat). Allow surface to remain wet for at least 10 minutes. Rinse surfaces thoroughly. Then wipe dry with a clean soft cloth.

(OR)

CLEANING HAIR CLIPPERS AND ELECTRIC SHEARS: While clipper/shear is running, hold in the downward position and spray a ½ ounce per gallon of water solution (or equivalent use dilution) (488 ppm active quat) of this product directly onto the blades two or three times to thoroughly wet the blades. Do not spray on the clipper case or drip into clipper housing. Turn off clipper/shear. Allow surface to remain wet for at least 10 minutes. Rinse surfaces thoroughly. Then wipe dry with a clean soft cloth. Lubricate as per clipper/shear manufacturer's instructions.

(OR)

CLEANING BARBER/SALON SHEARS AND OTHER IMPLEMENTS: Spray shear/implement until thoroughly wet. Wipe away visible debris using a soft bristle brush or cloth. Turn off clipper/shear. Immerse pre-cleaned shear/implement into a container of ½ ounce per gallon of water solution (or equivalent use dilution) (488 ppm active quat) of this product for at least 10 minutes. Rinse surfaces thoroughly. Remove shear/implement and wipe dry. Use fresh solution at least daily or when immersion tank (bowl) (sink) solution becomes diluted or visibly soiled.

Note: Plastic instruments can remain immersed until ready to use. Stainless steel shears and metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking can cause damage to metal instruments.

DISINFECTION/FUNGICIDE OF HARD, NON-POROUS SURFACES IN

FOOTBATHS: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of ½ ounce per gallon of water (or equivalent use dilution) (488 ppm active quat) to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray applications, use a coarse spray device. Do not breathe spray. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

DISINFECTION/VIRUCIDE/FUNGICIDE OF HARD, NON-POROUS SURFACES IN

FOOTBATHS: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of ¾ ounce per gallon of water (or equivalent use dilution) (732 ppm active quat) to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray

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applications, use a coarse spray device. Do not breathe spray. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN BARBER/SALON FACILITIES

SALON/BARBER INSTRUMENTS AND TOOLS SANITIZER DIRECTIONS: Pre-clean soiled instruments and tools. Completely immerse water safe non-porous instruments and tools in a solution of ¼ ounce per gallon (or equivalent use dilution) (732 ppm active quat) of water for at least 60 seconds. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

Note: Plastic instruments can remain immersed until ready to use. Stainless steel shears and metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments.

RESTROOM/BATHROOM

NON-ACID TOILET BOWL (AND URINAL) DISINFECTION/CLEANER DIRECTIONS

Remove gross filth prior to disinfection.

FROM CONCENTRATE: Add ½ ounce to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim, with a cloth, mop or sponge. Repeat and allow solution to stand for 10 minutes and flush.

stand for 10 minutes and flush.

*(Or use alternate Concentrate Use directions) (*1)*

FOR USE AS A NON-ACID BOWL CLEANER/DISINFECTANT IN TOILET BOWLS FROM CONCENTRATE:

1. Pre-clean heavily soiled areas.
2. Add ½ ounce into toilet bowl (¾ gallon of water) (or equivalent use dilution) for a 1:256 dilution.
3. Swab entire surface area especially under the rim.
4. Repeat and allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

FROM USE SOLUTION: Empty toilet bowl or urinal and apply ½ ounce per gallon of water use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush. For sprayer applications use a coarse spray device.

(OR)

To disinfect toilet bowls, flush toilet, add ½ oz. detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush.

(Or use alternate Use-Dilution directions)

FOR USE AS A NON-ACID BOWL CLEANER/DISINFECTANT IN TOILET BOWLS (AND URINALS) FROM USE-DILUTION: (*1)

1. Pre-clean heavily soiled areas.
2. Empty bowl by forcing water through the trap. Apply Use Solution to exposed surfaces in toilet bowls and urinals.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

(Or use alternate Use-Dilution directions)

TOILET BOWLS/URINALS: Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting. Clean by applying use-solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first preclean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in 3 oz. of the use dilution. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush. (*1)

FOR HEAVY DUTY CLEANING: Preclean surface. Empty toilet bowl or urinal and apply 2 ounces per gallon of water use solution (or equivalent use dilution) to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush.

(OR)

To disinfect toilet bowls, flush toilet, add ½ oz. detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush.

(Or)

GENERAL CLEANING TOILET BOWL: Apply (Open cap) (Squeeze gently, directing) ½ ounce of bowl cleaner under the rim and on sides of bowl (inside only). Brush, clean and flush toilet. (Close cap). Rinse brush with clean water. Do not use on any other surfaces including toilet seat, toilet lid, countertops, tubs and sinks. To clean other acid resistant toilet bowls or urinals, dilute product with 3 parts water. Do not allow solution to remain on surfaces without immediately rinsing thoroughly with water.

(Or)

TO CLEAN AND DISINFECT: A preliminary cleaning is required for the removal of heavy soil prior to disinfection. Fill toilet bowl with clean water. Saturate mop with ½ ounce of this product while holding bottle and mop applicator over bowl. Swab bowl completely making sure to get under the rim. Let stand for 10 minutes then flush. Rinse applicator completely.

(Or)

TO DISINFECT TOILET BOWLS: Fill toilet bowl with clean water. Apply (Squeeze) ½ ounce of bowl cleaner onto bowl brush. Clean the entire unit especially under the rim at water outlets. Allow surface to remain wet for 10 minutes. Flush and rinse out bowl brush with clean water. A preliminary cleaning step is required for the removal of heavy soil prior to disinfection.

(Or)

TO DISINFECT TOILET BOWLS: Flush to remove heavy soil. To clean, simply squirt ½ ounce of this product under the rim and around sides. Allow it to stand several minutes then scrub entire surface (especially under the rim) with a bowl (toilet) mop. Flush and rinse. To disinfect, squirt ½ ounce of this product under the rim and around the sides. Scrub bowl with mop. Allow solution to remain in the bowl for 10 minutes after scrubbing. Flush and rinse.

(Or)

TO DISINFECT TOILET BOWLS:

1. Remove gross filth and heavy soil deposits.
2. Fill toilet bowl with clean water.
3. Apply ½ ounce of this product to swab applicator, cloth, mop, sponge, or directly to surface.
4. Swab entire surface area, especially under the rim.
5. Allow entire surface to remain wet for ten (10) minutes.
6. Flush toilet and rinse swab applicator thoroughly.

(Or)

TOILET BOWL (AND URINAL) DISINFECTION/CLEANER DIRECTIONS: Remove gross filth prior to disinfection. Empty bowl or urinal and apply solution of ½ ounce of

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this product per 128 ounces of water to exposed surfaces including under the rim. Allow toilet bowl to fill with water. Brush or swab thoroughly with a cloth, mop, sponge or sprayer and allow solution to stand for 10 minutes and flush.

(Or)

TO CLEAN AND DISINFECT URINALS: Flush to remove heavy soil. Remove screens and strainers. Then squirt a solution of ½ ounce of this product per 128 ounces of water around edges and top. Allow solution to flow down over surfaces. Allow it to stand several minutes before scrubbing, then flush and rinse. To disinfect, allow solution to remain in urinal at least 10 minutes after scrubbing.

(Or)

TO DISINFECT URINAL:

1. Remove gross filth and heavy soil deposits.
2. Apply solution of ½ ounce of this product per 128 ounces of water directly to urinal surfaces including water outlets area for general cleaning.
3. Then pour additional solution on applicator.
4. Clean entire unit, especially under rim at water outlets, with applicator.
5. Remove screen trap to deodorize drain and apply ½ ounce directly on edge and into drain.
6. Wait 10 minutes, flush and rinse applicator.

TO DISINFECT TUBS, SHOWER STALLS, SINKS, FAUCETS: Swab area and remove gross filth and heavy soil. Apply ½ ounce of (product name) per gallon of water (488 ppm active quat) (or equivalent use dilution) onto surface to be cleaned or apply with cloth or sponge to wet all surfaces thoroughly and allow surface to remain wet for at least 10 minutes. Wipe around with damp cloth or sponge. Do not allow solution to dry on surface. Rinse thoroughly with water.

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 ½ ounce per gallon of water (488 ppm quat active) (or equivalent use dilution) to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for 10 minutes.

Special instructions for foam guns: Pour concentrate into foam gun bottle and attach to spray nozzle and ensure gun is attached to hose. **Note:** See foam gun instructions for more information. Make sure setting is set for 1:256 dilution. Once in place, squeeze the handle to dispense foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes. (Foam gun directions not for use in California.)

3. Scrub using deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

RV HOLDING TANKS/RECREATIONAL VEHICLES: For toilet waste and holding tanks, cover bottom of holding tank with water and ¼ – 1 ounce per gallon of water to deodorize. If odors return before time to empty, add ¼ – ½ ounce per gallon of water to the tank. For kitchen waste, add ¼ to ½ ounce to gray water tank as needed to control malodors created by dirty dishwater.

FUNGICIDAL/DEODORIZATION / MOLD & MILDEW

FUNGICIDAL PERFORMANCE:

Aspergillus niger (ATCC 6275)
Trichophyton mentagrophytes (ATCC 9533)

FUNGICIDAL PERFORMANCE: At ½ ounce per gallon use-level, (or equivalent use dilution) (488 ppm active quat) this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) (a cause of Ringworm of the foot) and *Aspergillus niger* on inanimate surfaces in locker rooms, dressing rooms,

shower and bath areas and exercise facilities. Preclean all surfaces prior to using this product. Saturate surfaces with use solution for a period of 10 minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears.

(OR)

At this level the product is also fungicidal against the pathogenic fungi, Trichophyton mentagrophytes, in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

MILDEWSTAT: Controls the growth of mold and mildew on pre-cleaned hard, non-porous surfaces (such as floors, walls, table tops) add ½ oz. of this product per gallon of water (488 ppm active quat) (or equivalent use dilution). Apply solution with a cloth, mop or sponge making sure to wet all surfaces completely. Let surface air dry. Prepare a fresh solution for each use. (Prepare a fresh solution at least daily or when use solution becomes visibly dirty). Repeat application at weekly intervals or when mildew growth reappears.

(OR)

MOLD AND MILDEW CONTROL: At ½ ounce per gallon, (or equivalent use dilution) (488 ppm active quat) this product will effectively inhibit and control the growth of mold and mildew and the odors caused by them when applied to pre-cleaned hard, non-porous surfaces (as indicated in general instructions above). Saturate surfaces with use solution for a period of 10 minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears.

CLEANING/DEODORIZING DIRECTIONS: Add ¼ to 1 ounce per gallon of water (or equivalent use dilution) to clean and deodorize windows, mirrors and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray. Wipe excess solution or allow to air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

(OR)

TO CLEAN AND DEODORIZE: Add ½ oz. per gallon of water (or equivalent use dilution). Swab with cloth or mop so as to thoroughly wet surfaces. Wipe excess solution or allow to air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

GENERAL DEODORIZATION: To deodorize, add ½ ounce of this product to one gallon of water (or equivalent use dilution) (488 ppm active quat). Excess liquid material must be wiped up or allowed to air dry.

FOR DEODORIZING GARBAGE CANS, GARBAGE TRUCKS, INDUSTRIAL WASTE RECEPTACLES AND GARBAGE HANDLING EQUIPMENT: It is especially important to preclean for the product to perform properly. Then, apply a wetting concentration of 2.5 ounces of this product per gallon of water (or equivalent use dilution) (2,440 ppm quat active).

FOR DEODORIZING SEPTIC STORAGE TANKS: When tanks are empty, pour ½ oz. per gallon of water (488 ppm active quat) (or equivalent use dilution) into septic storage tank on recreational vehicles, campers and boats to control the bacteria that can cause odors. As tank fills with sewage and the vehicle is moving, this solution will mix and provide an adequate deodorizing solution for this use. This product is to be used on gray and black water tanks only. Check with local, state, or federal authorities before disposing of sewage in accordance to federal, state and local regulations for waste disposal.

AIR FRESHENER/AUTOMOTIVE USES: Effective on smoking and cooking odors (garlic, fish, onions, etc.). Automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. A solution of ½ ounce of this product per gallon of water (or equivalent use dilution) (488 ppm active quat) will effectively neutralize damp

musty odors caused by mildew in storage areas, basements, closets, bathrooms and A/C filters. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from tobacco, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Allow surfaces to air dry.

FOR ODORS CAUSED BY DOGS, CATS AND OTHER DOMESTIC ANIMALS: Use on rugs, floors, walls, tile, cages, crates, litter boxes, mats, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "General Deodorization".

TO CONTROL THE GROWTH OF MOLD AND MILDEW ON LARGE, INFLATABLE NON-POROUS PLASTIC AND RUBBER STRUCTURES (animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent (or this product) and rinse with water. Saturate surfaces with a use solution of ½ ounce per gallon (488 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

FOR DISINFECTION AND TO CONTROL THE GROWTH OF MOLD AND MILDEW ON NON-POROUS ATHLETIC EQUIPMENT (wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of ½ ounce per gallon (488 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

HUMIDIFIER DIRECTIONS: Thoroughly clean water tank and filters. Add ¾ ounce of this product per gallon of refill water (or equivalent use dilution). Not for use in heat or atomizing type humidifiers.

(OR)

HUMIDIFIER BACTERIA/ALGAE TREATMENT: Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. For every 4 gallons of water in the humidifier tank add 1/3 ounce of this product (or equivalent use dilution). When you refill the tank, add 1/3 ounce of this product for every 4 gallons of water in the tank (or equivalent use dilution).

Not for use in heat vaporizing or atomizing type humidifiers.

WATER AND SMOKE DAMAGE RESTORATION *(Not applicable in CA)*

Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, and frame lumber, tackless strip and paneling. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

SEWER BACKUP & RIVER FLOODING *(Not applicable in CA):* During mitigation procedures, dilute ¾ to 1.5 ounces of this product per gallon of water (or equivalent use dilution) allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

CARPETS, CARPET CUSHIONS AND OTHER POROUS MATERIALS SUCH AS SUB FLOORS, DRYWALL, TRIM AND FRAME LUMBER, TACKLESS STRIP AND PANELING: For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute ¾ to 1.5 ounces of the product per gallon of water

(or equivalent use dilution), allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

SPECIAL INSTRUCTIONS FOR CLEANING CARPET AGAINST ODOR CAUSING BACTERIA: This product may be used in industrial, institutional, commercial and residential areas such as homes, motels & hotel chains, nursing homes, schools and hospital(s). For use on wet, cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness.

For Portable Extraction Units: Mix 3/8 ounce of this product per gallon of water.

For Truck Mounted Extraction Machines: Mix 13 ounces of the product per 1½ gallons of water (or equivalent use dilution) and meter at 4 gallons per hour.

For Rotary Floor Machines: Mix ¾ ounce of this product per gallon of water (equivalent use dilution) and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

CARPET DEODORIZATION AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE

This product cleans and deodorizes the carpet by controlling/reducing the growth of odor-causing bacteria. It can be used in industrial, institutional, commercial and residential areas such as homes, motels, hotels chains, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 3/8 ounce of product per gallon of water (or equivalent use dilution). Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 1 ounce per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use (Use this product) on washable synthetic fibers. Do not use on wool. Test color fastness of carpet before use. Apply diluted product to a small concealed spot, then with a clean white cloth. If color changes or transfers to (the) cloth, a water-based product should not be used.

After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse.

Note: This product must not be mixed with other cleaning products.

SMOKE DAMAGE RESTORATION *(Not applicable in CA):* Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

HORTICULTURAL AND ORNAMENTAL PLANTS

It is a violation of Federal Law to use this product in a manner inconsistent with its label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

COMMERCIAL FLORIST USE DIRECTIONS: To clean, disinfect and deodorize hard, non-porous surfaces in one step, prepare use solution by adding (mixing) ½ ounce per gallon of water (1:256) (or equivalent use dilution). For heavy-duty cleaning, add (mix) 2 ounces per gallon of water (1:64) (or equivalent use dilution).

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as required, with a cloth, mop, brush, sponge or sprayer.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

Treated surfaces must remain wet for 10 minutes. Allow surface to air dry.

Prepare a fresh solution at least daily or sooner if use solution becomes visibly dirty.

This product is a general disinfectant. It will help in the control of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, and odor causing bacteria and algae. It is designed specifically for use where disease and cross contamination may occur between plants. Pre-clean all surfaces prior to application of the disinfectant solution. All inanimate surfaces must be thoroughly wetted and remain wet for 10 minutes for disinfection. Then wipe up excess or allow to air dry. Fresh solution must be prepared at least daily or when use solution becomes visibly dirty. To apply solution for sprayer applications, use a coarse spray only.

AGRICULTURE USE REQUIREMENTS: (Note to reviewer: This section might be surrounded by a box on label.) Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this section (box) only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls worn over long sleeved shirt and long pants, waterproof gloves, chemical-resistant shoes plus socks, and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS: (Note to reviewer: This section might be surrounded by a box on label.) The requirements in this section (box) apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40CFR170). The WPS applies when this product is used to protect agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons, children, pets and others out of treated areas until sprays have dried.

CHEMIGATION: Do not apply this product through any type of irrigation system except when used to control algae in nozzles as directed on this label.

GENERAL INFORMATION: This product is a general disinfectant. It will help in the control of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, and odor causing bacteria and algae. It is designed specifically for greenhouse use where cross contamination may occur between plants. Pre-clean all surfaces prior to application of the disinfectant solution. All inanimate surfaces must be thoroughly wetted and remain wet for 10 minutes for disinfection. Then wipe up excess or allow to air dry. Fresh solution must be prepared at least daily or when use solution becomes visibly dirty. To apply solutions for sprayer applications, use as a coarse spray only.

DISINFECTING

WORK AREAS AND BENCHES: Spray or swab working surface with a solution of oz. of this product per gallon of water (or equivalent use dilution) for 10 minutes before each work period and again after each plant is completed to help control transfer of diseases such as *Botrytis*, crown rot, downy mildew, *Erwinia*, *Phalaenopsis* and root rot. To apply solutions for sprayer applications, use as a coarse spray only.

POTS, FLATS AND FLOWER BUCKETS: Brush or wash used pots and flats, then soak in a solution of ½ oz. of this product per gallon of water (or equivalent use dilution) for 10 minutes to help control transfer of diseases such as anthracnose, blight, *Botrytis*, crown rot, *Erwinia*, mildew, *Phalaenopsis*, root rot, and rust.

CUTTING TOOLS: Soak cutting edge of tool for 10 minutes in a solution of ½ oz. of this product per gallon of water (or equivalent use dilution) before use to help control transfer of diseases such as *Botrytis*, *Erwinia*, *Phalaenopsis*, root and stem rots, and Tobacco Mosaic Virus (TMV). Dry and oil tools at the end of each workday.

ALGAE CONTROL

When used as directed, this product is effective against algae. With a little experience, you will quickly recognize algae contamination as it starts. Algae should be killed immediately! Remember – algae can double or quadruple in growth every day. Algae are generally dead when it does not feel slick to the touch and the color has changed. However, algae do not always change color when killed.

GREENHOUSE GLASS: Spray or swab surface with a solution of ½ oz of this product per gallon of water (or equivalent use dilution). Allow to air dry. Wash off dead algae with water. Spray clean surface again with the solution. Do not rinse. To apply solution for sprayer application, use as a coarse spray only.

HOUSE PLANTS: To control algae and cross contamination in terrariums, bubbles, etc., wipe inside of glass with a solution of 0.05 oz. of this product per quart of water (or equivalent use dilution). Lightly spray plants with same solution.

WALKWAYS: For heavy infestations, spray or swab surface with a solution of ½ oz. of this product per gallon of water (or equivalent use dilution). Let stand for an hour or more then brush and wash away dead algae. Soak area again with the solution. Do not rinse. This product will inhibit the growth of algae on walkways. Allow solution to dry on the surface and repeat application when algae growth returns. To apply solutions for sprayer applications, use as a coarse spray only.

OTHER USES

OVERHEAD WATERING SYSTEMS: During the last 2-3 minutes of watering use 1 oz. of this product per 20 gallons of water as a control program. Due to variations of growing conditions, use every second to fourth watering. Will control algae in nozzles.

EVAPORATIVE COOLER: Controls algae, slime forming fungi on cooler pads and certain fungal plant pathogens that may carry over in the cooler as well as bacterial odors. Use ½ ounce of this product per 15 gallons of water every other week.

Note: Unintentional consequences such as crop injury or ineffectiveness may result because of certain environmental or growing conditions, manner of use or applications, and insect resistance. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage and for performance prior to full-scale application. All risks shall be assumed by the user.

OTHER USES

DISINFECTION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:

After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add ½ ounce of this product for each gallon of (or equivalent use dilution) (488 ppm active quat) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

WATERBED CONDITIONER: When used as a waterbed conditioner, controls the growth of odor-causing and slime-forming bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals.

If bed has not been treated properly, drain bed completely. Add 15 gallons of water, mix vigorously, drain bed again. Fill bed with water and follow dosage directions.

Dosage: To control growth of odor-causing and slime-forming bacteria, add 3.3 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 11 fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

CLEANSING OF BODY SURFACES AND BODY ORIFICES OF HUMAN REMAINS:

To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, apply ½ ounce of this product to 1 gallon of water (or equivalent use dilution) (488 ppm active) to the surfaces and body openings, natural or artificial. Allow a 10-minute contact time for optimal results. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Prepare a fresh solution for application of each remains.

FOR USE ON FINISHED FLOORS: To limit gloss reduction, use ½ ounce of this product per 1 gallon of water (or equivalent use dilution). Apply with a damp mop or auto scrubber. Allow surface to air dry.

ARTIFICIAL TURF SURFACES: This product may be used as a disinfectant on indoor and outdoor artificial turf surfaces such as athletic game fields and practice fields (i.e. football, soccer, baseball, lacrosse, golf). Prepare a ½ oz of this product per 1 gallon of water solution (488 ppm active quat) (or equivalent use dilution). Apply to turf surfaces with a portable tank sprayer or handheld pressure sprayer. Saturate turf surface with enough product to remain wet for at least 10 minutes. Do not use field for a minimum of 30 minutes or when surface has completely dried. One (1) gallon of diluted product will treat 400-600 sq ft of turf surface.

DIRECTIONS FOR HOUSEHOLD USE

KITCHEN/BATHROOM/HOUSEHOLD CLEANING: Apply ½ oz per gallon of water (488 ppm active) (or equivalent use dilution) solution with a cloth, sponge, mop or directly on surface with a mechanical spray. If a mechanical spray is used spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly

wet. Wipe the soiled area clean. This product is not to be used on dishware, glasses or eating utensils.

DISINFECT/DEODORIZE: To disinfect hard, non-porous surfaces such as floors, walls, counters, sinks, tubs, toilets, glazed tile, exterior surfaces of appliances, refrigerators or freezers, microwave exteriors, stove tops and hoods, tables, garbage pails and faucets apply ½ oz per gallon of water (488 ppm active) (or equivalent use dilution) with cloth, sponge, mop or mechanical spray. If a mechanical spray is used, spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Treated surface must remain wet for 10 minutes before wiping. For heavily soiled areas a pre-cleaning step is required. The pre-cleaning step must be done according to the Kitchen/Bathroom/Household Cleaning directions. Rinse with potable water after use on surfaces that come in contact with food.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

SANITIZATION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS: A

using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add ¾ ounce of this product for each gallon of (or equivalent use dilution) (732 ppm active quat) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 60 seconds. After the unit has been thoroughly sanitized, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

SANITIZATION of EXTERIOR HOUSEHOLD SURFACES DIRECTIONS

Preparation of Use Solution: Add ¾ ounce per gallon of water (732 ppm active) (or equivalent use dilution) to sanitize hard, non-porous exterior surfaces such as vinyl, plastic, sealed concrete, painted or sealed woodwork, and sealed stucco. Surfaces to be treated include house siding, decks, patios, walkways and driveways.

Application: Preclean surfaces. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer, or with a low-pressure (less than 60 psi) airless sprayer so as to wet all surfaces thoroughly. Treated surfaces must remain wet for 5 minutes. Wearing suitable respiratory protective equipment to control exposure to spray, pressure wash surfaces to thoroughly clean all treated areas using a high-pressure spray. Do not breathe spray. One-half gallon of diluted product will treat 200-300 sq ft of surface.

DIRECTIONS FOR ALTERNATE CONTAINERS

BAG-IN BOX CONTAINERS

How to use this package: This package is designed to be used with dilution control systems only. Open package and connect to dispense according to directions on the box.

TRIGGER SPRAYERS: Fill bottle from dispenser. Apply to surfaces according to directions above.

MOP BUCKETS: Fill bucket from dispenser. Set up "Wet Floor" signs. Mop floor surfaces as specified in directions above.

PACKETS (For pre-measured tear open packets)

Pour contents of (½ oz) packet into 1 gallon of water. Keep packets in box until ready to use.

REFILLS

To Refill Concentrate From Large Containers Into Smaller Containers: This product may be used to fill and refill clean, properly labeled containers for dilution elsewhere within your facility. Make sure the small container has been cleaned, dried

and properly labeled according to state and local regulations. Also make sure other items (funnels or hand pumps) are properly cleaned and dried. To refill, simply pour (or pump product) from the larger container directly into the smaller one being careful not to spill any product. Keep both containers sealed when not in use.

ONE-HALF OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL FOR DISINFECTION

FOR DISINFECTION

MIX EACH PACKET WITH 1 GALLON OF WATER

MAQUAT 256 PD

E.P.A. Reg. No. 10324 -164 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: ½ FLUID OZ.

ACTIVE INGREDIENTS:

Alkyl (C ₁₄ 60%, C ₁₆ 30%, C ₁₂ 5%, C ₁₈ 5%)	
dimethyl benzyl ammonium chloride	6.25%
Alkyl (C ₁₂ 68%, C ₁₄ 32%)	
dimethyl ethylbenzyl ammonium chloride	6.25%

INERT INGREDIENTS: 87.50%

TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE
DIRECTIONS

DISPOSAL: Do not reuse container. Wrap and put in trash collection.

MASON CHEMICAL COMPANY "THE QUATERNARY SPECIALISTS"

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Arlington Heights, IL 60005

847-290-1621

Toll Free:
1-800-362-1855

