

10324-118

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

4-25-2006

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, D.C. 20460Office of Prevention, Pesticides and  
Toxic Substance

APR 25 2006

Elizabeth Tannehill  
Regulatory Manager  
Mason Chemical Company  
721 W. Algonquin Rd.  
Arlington Heights, IL 60005

Subject: Maquat 256 EBC  
EPA Registration No. 10324-118  
Amendment Dated: Jan. 13, 2006  
EPA Received Date: Jan 25, 2006

Dear Elizabeth Tannehill

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

**Proposed Amendment**

- Revised Label

**Conditions**

Revise the claim for sanitization of footbath surfaces on page 2 because the contact time in the data provided is not sufficient to kill the microorganisms of concern on this surface. Revise this statement by stating "Using this product to sanitize and disinfect..." and by deleting the phrase, "and footbath surfaces." Our concerns regarding this surface are addressed in more detail in subsequent comments in this letter.

Revise the 3<sup>rd</sup> statement in the left column on page 2 by deleting the methods of application which are not in agreement with the directions on the label. Delete "automatic washing systems, immersion tanks, foaming apparatus."

The animal viruses must be deleted from "Virucidal Activity" because the label's organization implies that hard nonporous surfaces in hospitals, dental offices, nursing homes, and other health care facilities will mitigate the organisms listed below. However, the animal viruses listed under "Virucidal Activity" are not indicative of these use sites. Therefore, you must relocate the following organisms to the "Animal Premise" section:

		CONCURRENCES					
S1	7510c						
SURNAME	12/1/05						
DATE	4-25-06						

EPA Form 1320-1A (1/00)

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OFFICIAL FILE COPY

Avian influenza/Turkey Wisconsin Virus  
 Infectious Bovine Rhinotracheitis Virus  
 Newcastle disease virus  
 Equine Arteritis Virus  
 Porcine Respiratory & Reproductive Virus  
 Infectious Avian Laryngotracheitis

Transmissible Gastroenteritis Virus  
 Canine Distemper  
 Canine Coronavirus  
 Porcine Rotavirus  
 Pseudorabies Virus

Revise the statement under General Deodorization on page 6 to read *"Excess liquid must be wiped up or allowed to air dry."*

Under the "Cleaning of Body Surfaces and Body Orifices of Human Remains" on page 6 revise this section by placing the statement, *"Allow a 10 minute contact time for optimal results,"* to appear after the statement, *"A soft brush may be employed on surfaces other than the face."* These revisions comply with DIS/TSS 15 by placing mode of application (sponge, washcloth, and soft brush) and surfaces for disinfection (body surfaces, body openings, and entire body) together in the directions.

The "Food Processing and Tobacco Premises" directions on page 7 must be revised by placing the 6<sup>th</sup> statement, *"Before using this product, food products and packaging materials must be removed from area or carefully protected,"* as the first statement in this section because it is consistent with the other food establishment/processing facility directions on the proposed label, and it must be the first step when disinfecting food processing establishments/facilities.

Delete the "Footbath Sanitizer Directions" that appear on page 10. The Agency is concerned that the reduced contact time is not sufficient to mitigate the microorganisms that may be present in footbaths. If you want to support these directions, you must submit data generated using the Broad Spectrum Performance standard, 91-2(c)(1) of Subdivision G with a one minute contact time. It is felt that the non- food sanitizer method is not a sufficient test demonstrate an appropriate kill for organisms typically found in footbaths.

## 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.

Submit and /or cite all data required for registration/re-registration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release of shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions, or comments concerning this letter, please contact Velma Noble at (703) 308-6233.

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Sincerely,

A handwritten signature in black ink, appearing to read 'Velma Noble', with a stylized, cursive script.

Velma Noble  
Product Manager (31)  
Regulatory Management Branch1  
Antimicrobial Division (7510c)

**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 or absorbed through the skin. Harmful if inhaled. Avoid breathing vapor or spray mist. 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, or using tobacco. 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 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. 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 by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by 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 in areas inaccessible to small children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Wrap and discard in trash (or recycle).

**MAQUAT<sup>®</sup> 256 EBC**

Disinfectant, Cleaner, Mildewstat, Fungicide, Sanitizer (nonfood contact surfaces), Virucide\*, Deodorizer for Hospitals, Nursing Homes, Whirlpool, Hotels & Motels, Waterbed Conditioner, Institutional, Industrial, Homes and School Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use. Effective in hard water up to 200 ppm hardness (Calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

Athletic Surface Disinfectant.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

Small Fly Ovicidal Treatment.

**ACTIVE INGREDIENTS:**

Alkyl (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 5%, C<sub>18</sub> 5%)

dimethyl benzyl ammonium chloride ..... 10.85%

Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)

dimethyl ethylbenzyl ammonium chloride ..... 10.85%

**INERT INGREDIENTS:** ..... 78.30%

**TOTAL:** ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER PELIGRO**

See left panel for additional precautionary 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.

**MASON CHEMICAL COMPANY** ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

721 W. Algonquin Road

Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855

E.P.A. Reg. No. 10324-118

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

APR 25 2006

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

NET CONTENTS

BATCH NO

10324-118

This product contains no phosphorous.

This product is a phosphate free, pH neutral 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 maximizes (improves) labor results by effectively controlling odors.

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.

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.

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.

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 delivers non-acid disinfection performance in an economical concentrate.

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.

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

This product will not leave a grit or soap scum.

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

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

This product is a complete, chemically balanced disinfectant/sanitizer that provides clear use solutions even in the presence of hard water.

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *(Not for use in California)*

This product is recommended for use as a disinfectant on hard, non-porous surfaces (at 850 ppm active).

This product is recommended for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors on commercial humidifiers. *(Not for use in California)*

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

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

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

This product is a one-step neutral 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.

This product may be applied through automatic washing systems, immersion tanks, foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems.

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

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

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

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

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

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

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

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

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

This product is an effective one-step sanitizer/cleaner for use on non-food contact surfaces.

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

This product is formulated to a neutral pH, yet provides effective cleaning strength that will not dull high gloss floor finishes with repeated use.

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

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

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses. *(Not for use in California.)*

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. *(Not for use in California.)*

This product may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop. *(Not for use in California.)*

Use this product to clean, disinfect and deodorize flower buckets, walls and floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors may develop. *(Not for use in California.)*

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.

Floor cleaner.

One-step cleaner.

Cleans everyday kitchen messes.

Cleans and shines.

Great for use (on) (in) the (kitchen), (bathroom), (floors) and other household areas. Removes (eliminates) odors. Deodorizes. Safe for most surfaces.

Safe for most surfaces. For a cleaner, fresher household. Cleans without bleaching. Removes stains. Removes dirt. Non-staining. Clear formula.

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

Cleans everyday kitchen messes like dirt, grease and food stains on non-food contact surfaces. Cuts through tough grease and grime.

Escherichia coli (E. coli), Salmonella choleraesuis (Salmonella), and Staphylococcus aureus (Staph) are common germs found where food is prepared and stored. This product kills these harmful germs and helps prevent the spread of food borne contamination on kitchen surfaces listed on this label.

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

Antibacterial.

Kills Athlete's Foot fungus in the bathroom.

Hospital Use Disinfectant. Institutional Disinfectant (Sanitizer).

Kills 99.9% of bacteria (germs) like Salmonella choleraesuis (Salmonella), Escherichia coli (E. coli), and Klebsiella pneumoniae (Klebsiella) on kitchen surfaces (and bathroom surfaces) and floors) in 3 minutes when used as a sanitizer.

Kills germs while it cleans.

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

Eliminates (kills) 99.9% of bacteria (germs) (such as) Salmonella choleraesuis (Salmonella) and Escherichia coli (E. coli) commonly found on kitchen (and bathroom) surfaces (in less than 5 minutes) when used as a sanitizer.

Effective sanitizer in the presence of 5% serum contamination.

Effective sanitizer in the presence of soils.

Maquat® 256 EBC for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, isolation wards, and medical research facilities.
- Patient care rooms & facilities, recovery (rooms), anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, police cars.
- Day care centers and nurseries, sick rooms.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities.
- Restaurants, restaurants and bars, bars, 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 parlors, liquor stores.
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms.
- 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.
- Hotels, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households).
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities.
- 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.

6/5

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*Enterococcus*  
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- Humidifier water tanks. (Not for use in California)
- 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.
- Processing facilities for Fish, Wine, Milk, Citrus, Fruit, Vegetable, Ice Cream and Potatoes, and beverage plants.
- Tobacco plant premise.
- Veterinary clinics, animal life science laboratories, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, 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:

- Countertops (Counters), non-food contact surfaces of Slurpy® machines, (stoves) stovetops, sinks (bathroom, kitchen), tub surfaces, and exterior surfaces of appliances, refrigerators and ice machines.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl.
- Examination tables, X ray tables, washing areas, animal grooming areas.
- Enameled surfaces, painted (finished) woodwork, Formica®, vinyl and plastic upholstery.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large inflatable, non-porous, plastic and rubber structures such as animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.
- Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wooden Picnic tables and outdoor furniture except cushions and wood frames. (Note: Only one statement will be used on label.)
- Telephones and telephone booths.
- Highchairs, baby cribs, diaper changing stations, infant bassinets/cribs/warmers/incubators/care equipment, folding tables.
- Bed railings, bedpans, cervical collars, CPR training mannequins, curing lights, neck braces, oxygen hoods, slit lamps, spine backboards, stretchers and unit stools.

- External lenses vision correction (not for use on contact lenses), light lenses, optical instruments/implements.
- Drinking fountains.
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome, chrome intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, and chemical toilets and latrine buckets, porcelain tile and restroom fixtures.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, cages, kennel/cages floors, conductive flooring.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.

Use this product to clean, sanitize and disinfectant non-porous personal protective safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, hard hats, half mask respirators, full face breathing apparatus, masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Clean equipment that comes in prolonged contact with skin before reuse with clean water (about 120°F), and allow to air dry. (Precaution: Cleaning at the recommended 120°F temperature will avoid overheating and distortion of the personal protective equipment that would necessitate replacement.)

Use this product to clean, sanitize and disinfectant 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 the recommended 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.)

This product is recommended for 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 recommended for Swine Premise Sanitation:

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

This product meets AOAC Use – Dilution Test Standards for hospital disinfectant with 200 ppm water hardness.

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

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

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

OR

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Environmental Surfaces Utilizing Hepatitis C Virus (HCV). (Not for use in California)

OR

At ½ ounce per gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (Duck) H

Virus (HBV) and Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

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

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.

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

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

### DIRECTIONS FOR USE

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

(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 pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

Or

This product is not for use on Medical device surfaces.

This product is not for use to disinfect, sanitize or clean eating equipment, glassware or dishware.

### DISINFECTION

**PREPARATION OF USE SOLUTION:** For water hardness up to 200 ppm add ½ ounce per gallon (4 milliliters per liter) of water (1:256) to disinfect hard, non-porous surfaces OR mix a 2-ounce packet with 4 gallons of water. Treated surfaces must remain wet for 10 minutes.

This product is a Hospital Use Disinfectant at ½ ounce per gallon (4 milliliters per liter), (1:256 dilution), modified in the presence of 200 ppm hard water.

This product is Bactericidal according to the AOAC Use Dilution Test method, Virucidal\* according to the virucidal qualification on hard, inanimate surfaces, modified in the presence of 5% organic serum against:

*Acinetobacter baumannii*  
*Acinetobacter calcoaceticus*  
*Acinetobacter anitratus*  
*Campylobacter jejuni*  
*Enterococcus faecalis* (ATCC 19433)  
*Enterococcus faecalis* (Gentamycin Resistant)  
*Enterococcus faecalis* (Vancomycin Resistant) (VRE)  
*Enterococcus faecium* (Vancomycin Resistant) (VRE)  
*Escherichia coli* (ATCC 8739)  
*Escherichia coli* (Methicillin Resistant)

*Escherichia coli* (Oxacillin Resistant) (ATCC 1344)  
*Escherichia coli* 0157:H7 (ATCC 35150)  
*Klebsiella pneumoniae* (ATCC 4352)  
*Klebsiella pneumoniae* (Methicillin Resistant)  
*Listeria monocytogenes* (ATCC 984)  
*Pseudomonas aeruginosa*  
*Salmonella choleraesuis*  
*Salmonella typhi* (ATCC 6539)  
*Salmonella typhimurium* (ATCC 14028)  
*Serratia marcescens* (Environmental Isolate)  
*Shigella dysenteriae* (ATCC 9361)  
*Shigella flexneri* (ATCC 12022)  
*Shigella sonnei* (ATCC 9290)  
*Staphylococcus aureus*  
*Staphylococcus aureus* Multiple Antibiotic Resistant (Clinical Isolate)  
*Staphylococcus aureus* (Methicillin Resistant) (MRSA) (ATCC 33591)  
*Staphylococcus aureus* (Vancomycin Sensitive)  
*Streptococcus pyogenes*

Avian influenza A H9N2/Turkey/Wisconsin  
Infectious Bronchitis Virus  
Infectious Bovine Rhinotracheitis virus (IBR)  
Canine Distemper  
Canine Coronavirus  
Human Coronavirus  
Equine Arteritis virus  
Hepatitis B Virus (HBV)  
Hepatitis C Virus (HCV)  
Herpes Simplex Type 1  
Herpes Simplex Type 2  
HIV-1 (AIDS Virus)  
Infectious Avian Laryngotracheitis  
Influenza A/PR Virus  
Newcastle disease virus  
Porcine Respiratory & Reproductive Virus (PRRSV)  
Porcine Rotavirus  
Pseudorabies virus  
Transmissible Gastroenteritis (TGE) (ATCC VR743)

### Fungicidal against:

*Aspergillus niger*  
*Trichophyton mentagrophytes*  
*Candida albicans*

**Disinfection/Fungicidal\*Virucidal Directions:** Apply use solution to hard, inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

Add ½ ounce per gallon (4 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.



**Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions  
Disinfection/Fungicidal and Virucidal Dilution Chart**

Ounces of Product	Amount of Water
1/8 ounces	1 quart
1/4 ounce	1/2 Gallon
1/2 ounce	1 gallon
1 1/4 ounces	2 1/2 gallons
2 1/2 ounces	5 gallons
5.0 ounces	10 gallons

At 1/2 ounce per one gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 200 ppm hard water (CaCO<sub>3</sub>) and 100% serum this product was proven to be effective against (Duck) Hepatitis B Virus with a contact time of 10 minutes.

OR

At 1/2 ounce per gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (Duck) Hepatitis B Virus (HBV) and Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

At 1/2 ounce per one gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 200 ppm hard water (CaCO<sub>3</sub>) and 5% organic load this product was proven to be effective against Hepatitis C Virus (HCV) with a contact time of 10 minutes. (Not for use in California)

**\*KILLS HIV, HCV & HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with 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 C Virus (HCV) and Hepatitis B Virus (HBV).

**"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HCV & HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS."**

**PERSONAL PROTECTION:** Cleanup should always be done wearing protective latex gloves, gowns, masks and eye protection.

**CLEANING PROCEDURE:** Blood and other body fluids containing HIV-1, HCV and HBV must be thoroughly cleaned from surfaces and objects before application of this product.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to Federal, State and local regulations for infectious waste disposal.

**CONTACT TIME:** Leave surface wet for 10 minutes with 1/2 ounce per gallon (4 milliliters per liter) use solution.

**General Deodorization:** To deodorize, add 1/2 ounce of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Excess material should be wiped up or allowed to air dry.

**For Use on Finished Floors:** To limit gloss reduction, use 1/2 ounce of this product per gallon of water. Apply with a damp mop or auto scrubber. Allow 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 1 1/2 ounces of this product per gallon of water (or equivalent use dilution) (2,542 ppm quat active).

**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".

**Fungicidal Activity:** At 1/2 ounce per gallon use-level, (or equivalent use dilution) (850 ppm active quat) this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (cause of Ringworm) on inanimate surfaces in the presence of 5% blood serum and 200 ppm water hardness as CaCO<sub>3</sub> in locker rooms, dressing rooms, shower and bath areas and exercise facilities.

**Mold and Mildew Control Directions:** Add 1/2 ounce per gallon (4 milliliters per liter) of water to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear(s).

**Cleansing of Body Surfaces and Body Orifices of Human Remains:** To cleanse away skin secretions and accompanying malodor and to insure the removal of all soil and bloodstains, apply 1/2 ounce of this product to a gallon of water (850 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.

**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 and rinse with water. Saturate surfaces with a use solution of 1/2 ounces per gallon (850 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.

**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 1/2 ounce per gallon (850 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.

**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 1/2 ounce per gallon solution of the product (or equivalent use dilution) (850 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare fresh solution at least daily or more often if solution becomes cloudy or soiled.

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

**Disinfection 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 ounces per gallon of water (or equivalent use dilution) (850 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.

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

Remove gross filth prior to disinfection.

**From Concentrate:** Add ½ ounce (4 milliliters per liter) to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow to stand for 10 minutes and flush.

**From Use Solution:** Empty toilet bowl or urinal and apply ½ ounce per gallon (4 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

**For Heavy Duty use:** Empty toilet bowl or urinal and apply 2 ounces per gallon (16 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

**Cleaning/Deodorizing Directions:** Add 0.25 – 1 ounce per gallon (2-8 milliliters per liter) of water to clean and deodorize windows, mirrors and non-food contact glass surfaces. When using a coarse spray device, spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

**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) (850 ppm active quat) directly into bath chamber. Pre-clean 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 visible 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 whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add 2½ ounces of this product for each 5 gallons of water (½ ounce per one gallon) (850 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 surfaces with fresh water. The unit is ready for reuse.

**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 (850 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.

**To Disinfect Food-Processing and Tobacco Premises:** For floors, walls and storage areas, add ½ ounce of this product per gallon of water (or equivalent use dilution) (850 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 to remain wet for 10 minutes. Then remove excess liquid. Before using this product, food products and packaging materials must be removed from area or carefully protected. 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, add ½ ounce of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Before using this product, food products and packaging materials must be removed from area or carefully protected. 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 to remain wet for 10 minutes. Then remove excess liquid and rinse the surface 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) (850 ppm active quat). Follow the general disinfectant directions above.

**Directions for Fogging:** 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 one quart per 1000 cubic feet of room area with a product solution containing ¾ ounce product to 1 gallon of water (or equivalent use dilution) (1,271 ppm). 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 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 should a room or building be entered by anyone within two hours of the actual fogging. 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.**

#### **POULTRY (AND SWINE) PREMISE SANITATION SITE PREPARATION**

The first step in any on-going sanitation program should 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, Animal Quarters and Kennels Directions:** Prior to use, remove all poultry, other animals and their feeds from premises vehicles (trucks) and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use ½ ounce

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of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Saturate surfaces with the recommended 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) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

**HATCHERIES:** For disinfection/fungicide/virucide, use ½ ounce of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more and 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 ½ ounce of this product per gallon of water for disinfection/fungicide/virucide. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**DRESSING PLANT AND RENDERING PLANT DISINFECTION – FUNGICIDE – VIRUCIDE USE DIRECTIONS:** Disinfect walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution, ½ ounce of this product per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

#### FARM PREMISE DISINFECTION DIRECTIONS

##### 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, chutes and other facilities and fixtures occupied or transversed 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 recommended disinfecting or virucidal solution 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.
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.

##### For Use For 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, 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 recommended disinfecting and virucidal solution (1/2 ounce per gallon of water or equivalent use dilution) (850 ppm active quat) 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.

**Terrarium and Small Animal Cage and Cage Furniture Disinfection :** 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 recommended disinfecting and virucidal solution (1/2 ounce per gallon of water or equivalent use dilution) (850 ppm active quat) 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:** 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.

**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.

**Veterinary Clinics/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and Grooming Establishment/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 transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of ½ ounce per gallon of water (or

equivalent dilution) (850 ppm active quat) for a period of 10 minutes. 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.

**COMMERCIAL FLORIST USE DIRECTIONS** (Not for use in California): 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). For heavy-duty use, add (mix) 2 ounces per gallon of water (1:64).

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 recommended and 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 to air dry.

Prepare a fresh solution daily or when use solution becomes visibly dirty.

**FOR CONTROL OF SMALL FLIES ON NON-FOOD CONTACT SURFACES:** For control of small flies: *Drosophila* spp. and the Phoridae family. 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) (850 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) (850 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.

**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 1.9 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 3.8125 fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

#### **SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES**

**Preparation of sanitizer use solution:** Add ½ ounce of this product to 1 gallon of water (or equivalent use dilution) to sanitize hard, non-porous surfaces. This product is an effective sanitizer against the following:

*Escherichia coli*  
*Escherichia coli* O157:H7  
*Enterococcus faecalis*

*Klebsiella pneumoniae*  
*Staphylococcus aureus*  
*Salmonella choleraesuis*

Apply sanitizer use solution to pre-cleaned, hard, non-porous 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 3 minutes, then wipe with sponge, mop or cloth or allow to air dry.

OR

**Sanitizing Non-Food Contact Surface Directions:** Add ½ ounce per gallon (4 milliliters per liter) of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 3 minutes. Allow to air dry.

This product is not for use to disinfect, sanitize or clean eating utensils, glassware and dishes.

**To Sanitize (and Deodorize):** Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. Let stand for 3 minutes. Then wipe.

**LAUNDRY SANITATION (AGAINST ODOR CAUSING BACTERIA):** Use 1.625 ounces per 100 pounds of dry weight fabric. Dilute the appropriate amount of this product in one to two gallons of water, then add to the wash wheel in the final rinse. Re-treat fabric after each washing. For residual bacteriostatic activity against odor causing bacteria, conditions of high relative humidity or wet contamination are required. Laundered fabric may also be treated by soaking.

**SHOE BATH SANITIZER:** To prevent tracking harmful organisms into animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made solution should 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 a ½ ounce of this product per gallon (4 milliliters per liter) of water solution for 3 minutes prior to entering area. Change the sanitizer solution in the bath at least daily or sooner if solution appears dirty.

**SHOE FOAM DIRECTIONS** (Not for use in California) : To prevent tracking harmful organisms into 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 ½ to 0.6875 ounce per gallon of water (or equivalent use dilution) (850 to 1165 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 manufacture of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 3 minutes prior to entering area. Foam area should 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 of harmful organisms from area to area, set the system to deliver (½ oz. per gallon of water) (850 ppm active) of sanitizing solution. The (spray) (foam) should 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.

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**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 ½ ounce per gallon (or equivalent use dilution) of water for at least 3 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared at least daily or more often if solution becomes cloudy or soiled.

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

**Ultrasonic Bath Sanitizer 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) (850 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 3 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 visible dirty or discolored.

**Sanitization 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) (850 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 3 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.

**Footbath Sanitizer Directions :** 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) (850 ppm active quat) to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 3 minutes. After the unit has been thoroughly sanitized, rinse all cleaned surfaces with fresh water. For spray applications, use a coarse spray device. Do not breathe spray. Do not use equipment until treatment has been absorbed, set or dried.

**Dairy Cow Application Directions:** The udders, flanks and teats of dairy cows can be washed with a solution of ½ ounce of this product per gallon of warm water. Use a fresh towel for each cow. Avoid contamination of wash solution by dirt and soil. Do not dip used towel back into wash solution. When solution becomes visibly dirty, discard and provide fresh solution.

**Humidifier Directions** *(Not applicable in CA):* Thoroughly clean water tank and filters. Add 0.1 ounces of this product per gallon of refill water. Not for use in heat or atomizing type humidifiers.

OR

**Humidifier Bacteria/Algae Treatment** *(Not for use in California):* Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. For every gallon of water in the humidifier tank add 0.1 ounces of this product. When you refill the tank, add 0.1 ounces of this product for every gallon of water added.

Not for use in heat vaporizing or atomizing type humidifiers.

#### **WATER DAMAGE RESTORATION** *(Not for use in California)*

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. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

**Sewer backup & river flooding:** During mitigation procedures, dilute ½ to 1 ounce of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective 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 ½ to 1 ounce of the product per gallon of water (847-1625 ppm active quat), 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 through extraction. Dry rapidly and thoroughly.

**Special Instructions for Cleaning Carpet Against Odor Causing Bacteria:** This product may be used in industrial and institutional areas such as homes, motels & hotel chains, nursing homes, schools and hospital. 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 ¼ ounce of this product per gallon of water.

**For truck mounted extraction machines:** Mix 6 ounces of the product per gallon of water and meter at 4 gallons per hour.

**For rotary floor machines:** Mix ½ ounce of this product per gallon of water 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 SANITIZER/ DEODORIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE** *(Use as a Sanitizer on Carpets is not acceptable in California)*

This product (sanitizes) cleans and deodorizes the carpet (by controlling/reducing the growth of odor-causing bacteria). It can be used in industrial and institutional areas such as homes, motels, hotels chains, nursing homes and hospitals. *(Note to reviewer: statement in parenthesis not allowed for use in California.)*

Vacuum carpet thoroughly prior to application. Mix ¼ ounce of product per gallon of water. Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix ½ ounce per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use 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 rub with a clean white cloth. If color changes or transfers to 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 should not be mixed with other cleaning products.

#### **SMOKE DAMAGE RESTORATION *(Not for use in California)***

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. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

#### **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 48 ounces this product to 2½ gallons water. 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 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 6 ounces of this product to 122 ounces of water. 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. It is acceptable to fog setters and hatchers with a ½ ounce per gallon solution of this product 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. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed set or dried.

**NOTE:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. 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.**

#### **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 ¾ ounce of product to 1 gallon of water (1,200 ppm). Vacate the area of all personnel 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 should a room or building be entered by anyone within two hours of

the actual fogging. 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 should be 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 should be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, pre-clean first. Prepare a fresh solution for each use.

**For Heavy Duty Cleaning:** When greater cleaning is desired, use 1 ounce of 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 CASINGS.** Treat treated surfaces with potable water before they contact the crop, compost or casing.

*(Alternative language for bag in the box dispensing equipment.)*

#### **DIRECTIONS FOR BAG-IN BOX CONTAINERS**

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

**TWO OUNCE PACKET TO BE USED WITH MASTER  
CONTAINER LABEL**

MIX EACH PACKET WITH 4 GALLONS OF WATER

**MAQUAT<sup>®</sup> 256 EBC**

E.P.A. Reg. No. 10324-118 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 2.0 FLUID OUNCES

**ACTIVE INGREDIENTS:**

Alkyl (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 5%, C<sub>18</sub> 5%)  
dimethyl benzyl ammonium chloride ..... 10.85%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)  
dimethyl ethylbenzyl ammonium chloride ..... 10.85%

**INERT INGREDIENTS:** ..... 78.30%

**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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1-800-362-1855

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