

10324-99

2/17/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

FEB 17 2005

SUBJECT: Maquat 10-PD  
EPA Registration Number: 10324-99  
Applications Dated: August 20, 2004  
Receipt Date: August 24, 2004

Dear Ms. Tannehill:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

- update label language
- add public health pests

**Efficacy Comments**

The Agency previously had concerns as to whether you intended for this product to support food contact sanitization claims. Although such data had been previously cited in support of this product, it appears that you do not intend for this product to be used in this manner. Thus as identified in the comments below, all references to food contact surface treatment must be removed from this label.

**Label Comments**

Make the following changes to your labeling:

A. Please note the following comments related to the "Small Fly Treatment." Your cover letter has referenced data on small flies which was submitted for 10324-81. This product, 10324-99 and 10324-81 contain different active ingredients. You are required to keep data in your files which supports the effectiveness of this formulation in controlling flies of the *Drosophila spp.* and *Phoridae* family.

CONCURRENCES

SYMBOL	7510C						
SURNAME	J. Jantz						
DATE	2/17/05						

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B. Make the following revision to page two:

Correct the statement (left hand seventh item) to read as follows: "Cross contamination is of...This product has been...in the cross-contamination *on treated surfaces* not only in hospitals..."

C. Make the following revisions to page three:

- 1. Correct the statement (left column, third item) to read "...grease and *grime*."
- 2. Correct the section (left column, fifth item) by deleting the reference to "Antibacterial" as the section discusses pathogenic fungi not bacteria.
- 3. Correct the statement (left column, sixth item) to read: "Kills common kitchen (bathroom) germs." deleting "(and viruses)." as these are included in the term "germs."
- 4. Revise the statement (right column, ninth item) to read: "Tobacco plant premise." deleting the reference to "and equipment" as these surfaces are comparable to dishes and cookware which may not be disinfected.
- 5. Change "moonwalk" to read "*moonwalks*" and "obstacle coarse play" to read "obstacle *course* play."

D. Make the following revision to page four:

Revise the statement (left column, eleventh item) to read: "This product is effective against the control of small flies on *non-food contact surfaces such as* floors, walls, drains..."

E. Make the following revisions to page five:

- 1. Add the following statement to both sets of disinfection directions and the virucidal directions: "Prepare a fresh solution at least daily or more often if solution becomes diluted or soiled."
- 2. Revise the contact time statement in the HIV, HBV and HCV section by correcting to read: "...(*or equivalent* use dilution)..."
- 3. Change "moonwalk" to read "*moonwalks*" and "obstacle coarse play" to read "obstacle *course* play."

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DATE								

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F. Make the following revisions to page six:

1. Revise the directions for "Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions:" by revising the last statement of that section to read as follows: "Prepare fresh solution at least daily or more often if solution becomes cloudy or soiled."

2. Revise the directions for "Disinfection of hard, Non-Porous Surfaces in Footbaths" by changing the order of the statements as follows: "...Brush or swab...to stand for 10 minutes. For spray applications, use a coarse spray device. Do not breathe spray. After the unit has been thoroughly disinfected..."

3. Add the following statement to the directions "To Disinfect Food Service Establishments Food Contact Surfaces": "After use, all surfaces in the area must be thoroughly rinsed with potable water." Also indicate that this product is for use on exterior surfaces of appliances only.

G. Make the following revision to page seven:

Delete the claims for "equipment and utensils" from the directions for "Dressing and Rendering Plant Use" and "Rendering Plant/Dressing Plant Disinfectant/Fungicide/Virucide Directions". These surfaces are comparable to dishes and cookware which may not be disinfected.

H. Make the following revisions to page eight:

1. Delete the directions for "Laundry (Fabric) Sanitizer (Against Odor Causing Bacteria)..." as you have not cited a me-too with the same active ingredients as found in your product, thus we are not able to make rate comparisons and are not able to confirm that the appropriate amount of your product will be used to control odors on these surfaces.

In addition, in order to add such claims to your label, DIS/TSS-13 is applicable. This DIS/TSS explains the specific directions for use required for this claim as well as the efficacy data requirements. Should you propose to add such claims to any of your labels in the future, please refer to DIS/TSS-13. (This enclosure was sent in our last correspondence on 10324-111.)

2. Revise the statement at the beginning of the "Shoe Bath Sanitizer", "Shoe Foam Directions" and "Entryway Sanitizing Systems" sections to state: "To prevent cross contamination into treated animal areas..." or "To prevent cross contamination into treated areas..." as appropriate.

3. Since you are not supporting food contact sanitizing for this product, this product may not be used to sanitize gloves. Thus delete the entire section beginning: "Glove Dip Sanitizer Directions" and ending: "...solution come into contact with exposed skin."

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I. Make the following revision to page nine:

Revise the "Footbath Sanitizer Directions" by changing the order of the statements as follows: "...Brush or swab...to stand for 5 minutes. *For spray applications, use a coarse spray device. Do not breathe spray.* After the unit has been thoroughly sanitized..."

J. Make the following revision to page eleven:

As you have made clear in this correspondence with the Agency, you do not intend to support Food Contact Sanitizing for this product. **Thus delete the entire page eleven of the submitted label.**

**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/reregistration 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 for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



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

Enclosures: Stamped label  
7510C:T.Lantz:2/17/05:10324-99c

CONCURRENCES

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SURNAME							
DATE							

**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. Do not get into 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. 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 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).

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-99

**MAQUAT® 10-PD**

Disinfectant - Sanitizer - Deodorizer - Fungicide - Mildewstat - Virucide\* - With Organic Soil Tolerance For Hospitals, Nursing Home(s), Whirlpool, Home, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen.

Small Fly Ovicidal Treatment.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

**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 ..... 5.0%

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

dimethyl ethylbenzyl ammonium chloride ..... 5.0%

**INERT INGREDIENTS:** ..... 90.0%

**TOTAL:** ..... 100.0%

**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.

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

**MASON CHEMICAL COMPANY**

"THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road  
Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855

E.P.A. Reg. No. 10324-99

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

NET CONTENTS

BATCH NO

5/15

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 maximizes (improves) labor results by effectively controlling odors.

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 rest room 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 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, 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.

This product is recommended for use as a disinfectant on hard, non-porous surfaces (at 625 ppm active).

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

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

This product is a versatile cleaner and broad spectrum disinfectant 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. (10324-80)

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

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

This product is especially 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 caused 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 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, greenhouse packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause:

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 kitchen surfaces and food preparation areas.

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. 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. 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 Athlete's Foot fungus on bathroom surfaces.

Hospital Use Disinfectant. Institutional Disinfectant (Sanitizer).

Kills common kitchen (bathroom) germs ██████████

Maquat® 10-PD 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, whirlpools, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms. (10324-80)
- EMS & fire facilities, emergency vehicles, ambulance(s), 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, photo copy 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, prisons, jails, 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).

- 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.
- Heath clubs, spas, tanning spas/beds, footbath surfaces massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors. (10324-80)
- 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.
- 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.
- 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, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms and porches.

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

- Counters (countertops), stoves (stovetops), sinks (bathroom, kitchen), tub surfaces, 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.
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery.
- Foundations, steps, plumbing fixtures, finished baseboards and window sills.
- 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: animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment.
- Picnic tables and outdoor furniture.
- Telephones and telephone booths.

- Highchairs.
- Drinking fountains.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, porcelain tile and restroom fixtures.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring.

Use this product to clean, sanitize and disinfectant non-porous personal protective safety equipment, protective headgear, hard hats, 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 the recommended 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.)

This product is recommended for Poultry Premise Sanitation (Hatcheries) Egg Receiving Area, Egg Holding Area, Setter Room, Tray Dumping Area, Trays, Buggies, Racks, Egg Flats, Chick Holding Room, Hatchery Room, Chick Processing Area, Chick Loading Area, Poultry Buildings, Ceilings, Side walls and Floors, Drinkers, and all other hard non-porous Poultry House related equipment, and surfaces in the Hatchery environment.

This product is recommended for Swine Premise Sanitation, Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and Areas, Nursery, Blocks, Creep Area, Chutes.

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

This product meets AOAC efficacy standards for hard surface sanitizers.

This product is effective against the control of small flies on 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.

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 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 an effective disinfectant/sanitizer in the presence of 5% serum contamination.

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

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

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

Apply this product with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. For sprayer applications, use a coarse (mist) pump or trigger sprayer. Spray 6-8 inches from surface and rub with brush, sponge or cloth. Do not breathe spray (mist).

**NOTE:** With spray applications, cover or remove all food products. Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For heavily soiled areas, a preliminary cleaning is required.

## DISINFECTION

**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.

Add 4 ounces of this product to 5 gallons of water (625 ppm active quat) OR mix a 4 ounce packet with 5 gallons of water. Treated surfaces must remain wet for 10 minutes. At this use level, 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:

*Burkholderia cepacia*

*Campylobacter jejuni*

*Corynebacterium ammoniagenes*

*Escherichia coli* O157:H7

*Enterococcus faecium* (Vancomycin Resistant) (VRE)

*Klebsiella pneumoniae*

*Listeria monocytogenes*

*Proteus mirabilis*

*Pseudomonas aeruginosa*

*Salmonella choleraesuis*

*Salmonella typhi*

*Shigella sonnei*

*Staphylococcus aureus*

*Staphylococcus aureus* (Methicillin resistant)

*Yersinia enterocolitica*

**Virucidal Performance:** At 4 ounces per 5 gallons use level (625 ppm active quat), 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 /Turkey/Wisconsin

Avian Reovirus

Bovine Viral Diarrhea

Infectious Bronchitis Virus

Infectious Bovine Rhinotracheitis virus (IBR)

Canine Coronavirus

Canine Distemper

Equine Arteritis virus

Hepatitis B Virus

Herpes Simplex Type 1

Hepatitis C Virus

Human Coronavirus

Infectious Laryngotracheitis

Influenza A2/Japan

Newcastle disease virus

Porcine Respiratory & Reproductive Virus (PRRSV)

Porcine Rotavirus

Pseudorabies virus

Transmissible Gastroenteritis (TGE)



Herpes Simplex Type 2

Vaccinia virus

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

Ounces of Product	Amount of Water
0.2 ounces	1 quart
0.4 ounces	½ Gallon
0.8 ounces	1 gallon
2.0 ounces	2 ½ gallons
4.0 ounces	5 gallons
8.0 ounces	10 gallons

At 4 ounces per 5 gallons (or equivalent use dilution) (625 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.

**General Disinfectant-Non-medical (schools, restaurants, food services, dairies, farm, beverage and food processing plants):** Add 3 ounces of this product to 5 gallons of water (469 ppm active quat).

At this use level, this product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum with a 10 minute contact time against:

*Campylobacter jejuni*  
*Escherichia coli* 0157:H7  
*Listeria monocytogenes*  
*Proteus mirabilis*

*Salmonella choleraesuis*  
*Staphylococcus aureus*  
*Staphylococcus aureus* (Methicillin resistant)  
*Yersinia enterocolitica*

**General Disinfectant-Non-medical Dilution Chart**

Ounces of Product	Amount of Water
0.15 ounces	1 quart
0.3 ounces	½ Gallon
0.6 ounces	1 gallon
1.5 ounces	2 ½ gallons
3.0 ounces	5 gallons
6.0 ounces	10 gallons

**\*KILLS HIV, HCV AND 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 AND HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS."**

**Personal Protection:** Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or 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 should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

**Contact Time:** For HIV, leave surfaces wet for two minutes with 4.5 ounces per 5 gallons (or equivalent use dilution) (703 ppm active quat) use solution. This contact time will not control other common types of viruses and bacteria. For HBV and HCV, leave surfaces wet for 10 minutes with 4 ounces per 5 gallons (or equivalent use dilution) (625 ppm active quat).

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

**For Use on Finished Floors:** To limit gloss reduction, use 4 ounces of this product per 5 gallons of water. Apply with a damp mop or auto scrubber. Allow to air dry.

**General Deodorization:** To deodorize, add 3 ounces of this product to 5 gallons of water (or equivalent use dilution) (469 ppm active quat). Excess material should 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 pre-clean for the product to perform properly. Then, apply a wetting concentration of 3.25 ounces of this product per gallon of water (or equivalent use dilution) (2,500 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 4 ounces per 5 gallons use-level (or equivalent use dilution) (625 ppm active quat) this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) on inanimate surfaces in the presence of 5% blood serum in locker rooms, dressing rooms, shower and bath areas and exercise facilities.

**Mold and Mildew Control:** At 4 ounces per 5 gallons (or equivalent use dilution) (625 ppm active quat) this product will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat treatment every seven days or when new growth appears.

**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 3 ounces of this product to 5 gallon of water (429 ppm active) to the surfaces and body openings, natural or artificial. Allow a 10 minute contact time for optimal results. Bath 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, moonwalk, 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 3 ounces per 5 gallons (469 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 of Barber/Salon Tools Directions:** Pre-cleaned barber/salon tools, such as combs, brushes, razors, clipper and trimmer blades, tweezers manicure/pedicure

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tools and scissors, can be disinfected by immersing in 0.6 ounces per gallon solution of this product (or equivalent use dilution) (469 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared at least daily or more often if solution becomes cloudy or soiled.

**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 0.8 ounce per gallon solution of the product (or equivalent use dilution) (625 ppm active quat). Completely immerse instruments and tools for at least 10 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.

**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 0.8 ounce per gallon of water (or equivalent use dilution) (625 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. After the unit has been thoroughly disinfected, 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. (10324-80)

#### **NON-ACID TOILET BOWL (AND URINAL) DISINFECTANT DIRECTIONS**

Remove gross filth prior to disinfection.

**From Concentrate:** Add ¾ oz. 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 a 0.6 oz per gallon 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 spray application use a coarse spray device.

**For Heavy Duty Cleaning:** Empty toilet bowl or urinal and apply 18 ounces per 5 gallons (or equivalent dilution) 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 2¼ to 9 ounces per gallon (or equivalent dilution) of water 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 (mist).

**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 0.8 ounces per gallon of water (or equivalent use dilution) (625 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 visibly dirty or discolored.

**For Disinfecting Hard, Non-porous 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 4 ounces of this product for each 5 gallons of water (0.80 ounces per one gallon) (625 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 cleaned 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 4 ounces of this product for each 5 gallons of (0.80 ounces to one gallon) (625 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 3 ounces of this product to 5 gallons of water (or equivalent use dilution) (469 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. For sprayer applications, use a coarse (mist) spray. 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, appliances, (and) tables add 3 ounces of this product to 5 gallons of water (or equivalent use dilution) (469 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 3 ounces of this product per 5 gallons of water (or equivalent use dilution) (469 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 1.5 ounces product to 1 gallon of water (or equivalent use dilution) (1,200 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 a product solution of 200 ppm active quaternary (1 ounce per 4 gallons) 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.**

**Disinfection of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels:** Prior to disinfection, remove all poultry, other animals and their feed from premises, trucks, coops and crates. 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 3 ounces of this product per 5 gallons of water (or equivalent use dilution) (469 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 disinfection, 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.

**Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels Directions:** Remove all animals and feeds from premises, vehicles 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 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (625 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 general disinfection, use 3 ounces of this product per 5 gallons of water. For disinfection/fungicide/virucide, use 4 ounces of this product per 5 gallons of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces wet (exposed to solution) for 10 minutes or more. Rinse surfaces with potable water. 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 (mist) spray. Use 3 ounces of this product per 5 gallons of water for general disinfection. Use 4

ounces of this product per 5 gallons of water for disinfection/fungicide/virucide. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS (DRESSING PLANT AND RENDERING PLANT DISINFECTANT DIRECTIONS):** Cover or remove all food and packaging material before disinfection. Remove gross soils. Disinfect walls and floors in poultry and animal dressing plants with a solution of 3 ounces of this product per 5 gallons of water (or equivalent use dilution) (469 ppm active quat). Equipment and utensils must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Rinse all surfaces which contact food with potable water before reuse.

**RENDERING PLANT/DRESSING PLANT DISINFECTANT/FUNGICIDE/VIRUCIDE DIRECTIONS (DRESSING PLANT AND RENDERING PLANT DISINFECTANT - FUNGICIDE - VIRUCIDE DIRECTIONS):** Cover or remove all food packaging material before disinfection. Remove gross soils. Apply to walls and floors in poultry and animal dressing plants with a solution of 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (625 ppm active quat). Equipment and utensils must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Rinse all surfaces which contact food with potable water before reuse.

**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.

**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 4 ounces per 5 gallons of water (or

equivalent dilution) (625 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:** To clean, disinfect and deodorize hard non-porous surfaces in one step, prepare Use solution by adding (mixing) 3 ounces per 5 gallons of water (469 ppm active). For heavy-duty use, add (mix) 12 ounces per 5 gallons of water (1,875 ppm active).

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 (mist) pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray (mist).

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

Prepare a fresh solution at least daily or sooner if 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 on-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 4 ounces of this product to 5 gallons of water (or equivalent use dilution) (625 ppm active) 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 4 ounces per 5 gallon of water (or equivalent use dilution) (625 ppm active) 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

**Preparation of sanitizer use solution:** Add 1 ounce of this product to 4 gallons of water (or equivalent use dilution) (200 ppm active) to sanitize hard, non-porous surfaces. At 200 ppm active, this product is an effective one-step sanitizer against *Staphylococcus aureus* and *Enterococcus aerogenes*.

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 (mist) 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.

**LAUNDRY SANITIZER (AGAINST ODOR CAUSING BACTERIA):** Use 1 ounce per 50 pounds of dry weight fabric. Dilute the appropriate amount of this product to one

to one gallon of water, then add to the wash cycle in the final rinse. Re-treat after each washing. Residual static action against odor-causing bacteria, conditions of high relative humidity, and contaminants are required. Considered safe may also be treated by sanitizing.

**SHOE BATH SANITIZER DIRECTIONS:** 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 sanitizing 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 ¼ ounce of this product per gallon of water (or equivalent use dilution) (200 ppm active) solution for 3 minutes prior to entering area. Change the sanitizing solution in the bath at least daily or when solution appears dirty.

**SHOE FOAM DIRECTIONS:** 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 1 to 1.5 ounces per gallon of water (or equivalent use dilution) (781 to 1172 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 (0.51 – 1.02 oz. per gallon of water) (1.5 – 3 oz. per 2 7/8 oz per gallon of water) (400 – 800 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.

**SHOE DIP SANITIZER DIRECTIONS:** To prevent the spreading of harmful organisms into animal areas, and the packaging and storage areas of food plants, dip pre-cleaned (plastic, latex or other synthetic rubber) non-porous gloves into a suitable clean container that contains enough freshly made sanitizing solution to cover the glove area. Do not let sanitizing solution come in contact with the exposed skin. Make up sanitizing solution by adding a ¼ ounce of this product per gallon of water (or equivalent use dilution) (200 ppm active). Dip (Soak) solution for 3 minutes. NO POTABLE WATER RINSE IS ALLOWED. Change the sanitizing solution in the bath at least daily or when solution appears dirty. Do not let sanitizing solution come into contact with exposed skin.

**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) (200 ppm active) 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.

**Dairy Cow Application Directions:** The udders, flanks and teats of dairy cows can be washed with a solution of 1 ounce of this product in 4 gallons 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.

**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 ¼ oz per gallon of water (or equivalent use dilution) (200 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. (10324-80)

**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 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 AND SMOKE DAMAGE RESTORATION**

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, 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 1-2 ounces 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 1-2 ounces of the product per gallon of water, (781-1562 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 thorough 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(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 ½ ounce of this product per gallon of water.

**For truck mounted extraction machines:** Mix 12 ounces of this product per gallon of water and meter at 4 gallons per hour.

**For rotary floor machines:** Mix 1 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 AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE**

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

Vacuum carpet thoroughly prior to application. Mix ½ 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 1 ounce per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use on (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 rub 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 should not be mixed with other cleaning products.

**Smoke Damage Restoration:** 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 96 ounces of this product to 320 ounces of water (or equivalent use dilution). 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 breath 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 10 ounces of this product to 125 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. Do not allow people to contact or breath this fog. It is acceptable to fog setters and hatchers with a 1 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.

Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

#### FOOD PROCESSING PLANTS USING FOGGING DEVICES

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 1½ ounces 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 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 3 ounces of this product per 5 gallons of water (0.60 ounces 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, preclean first. Prepare a fresh solution for each use.

**For Heavy Duty Cleaning:** When greater cleaning is desired, use 6 ounces of this product per 5 gallons of water (1.2 ounces 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.

*(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 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.

## FOUR OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL FOR DISINFECTION

FOR DISINFECTION

MIX EACH PACKET WITH 5 GALLONS OF WATER

# MAQUAT® 10-PD

E.P.A. Reg. No. 10324-99 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 4.0 FLUID OZ.

#### 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 ..... 5.0%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)  
dimethyl ethylbenzyl ammonium chloride..... 5.0%

**INERT INGREDIENTS:** ..... 90.0%

**TOTAL:** ..... 100.0%

**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"

721 W. Algonquin Road  
Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855



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ONE OUNCE PACKET LABEL TO BE USED WITH MASTER  
CONTAINER LABEL FOR FOOD CONTACT SANITIZER

FOR FOOD CONTACT SANITIZER

MIX EACH PACKET WITH 4 GALLONS OF WATER

**MAQUAT® 10-PD**

P.A. Reg. No. 10324-99 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 1.0 FLUID OZ.

**ACTIVE INGREDIENTS:**

Alkyl (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 8%, C<sub>18</sub> 5%)  
dimethyl benzyl ammonium chloride ..... 5.0%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)  
dimethyl ethylbenzyl ammonium chloride ..... 5.0%

**INERT INGREDIENTS:** ..... 90.0%

**TOTAL:** ..... 100.0%

**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.

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