

MAR 1 2006  
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Ms. Elizabeth Tannehill  
721 W. Algonquin Road  
Arlington Heights, IL 60005

Subject: Maquat 256 MN  
EPA Registration No.: 10324-108  
Amendment Date: August 19, 2005  
EPA Receipt Date: September 2, 2005

Dear Ms. Tannehill,

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable with the conditions listed below.

- citation of data to support additional public health organisms
- addition of directions for use

**Unacceptable Data**

The efficacy data cited to support the addition of Avian Influenza A/Turkey/Wisconsin, Hantavirus, and Transmissible Gastroenteritis is not acceptable. Although this data was used to support 10324-80 this product is not substantially similar to 10324-108 and thus the data will not support both products. Thus the following two studies may not be used to support this product: 45783701 and 45076202. In addition, when adding Avian Influenza, a study must be submitted or cited to support this claim.

**Conditions**

Revise the label as follows:

1. Revise the 17<sup>th</sup> and 18<sup>th</sup> statements in the left column on page two to be in agreement with PR Notice 2000-5 which requires mandatory language. Revise to state: "This product is for use in household..." and "This product is for use as a..."

2. Delete the claim for sanitization of footbath surfaces in the 21<sup>st</sup> statement in the left column on page two as the contact time in the data provided is not sufficient to kill the microorganisms of concern on this surface. Revise this statement by deleting "and footbath surfaces." Our concerns regarding this surface are addressed in more detail in subsequent comments in this letter

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3. Revise the 2nd statement in the right column on page two by deleting the methods of application which are not in agreement with the directions for use on this label. Delete "automatic washing systems, immersion tanks, foaming apparatus."

4. Delete the 8th statement in the right column on page two as your label does not include directions in association with this claim for sink disposals and floor drains.

5. Revise the 14<sup>th</sup> and 17<sup>th</sup> statements in the right column on page two to be in agreement with PR Notice 2000-5 which requires mandatory language. Revise to state: "This product is for non-scratch..." and "... (Precaution: Cleaning at 120°F temperature will avoid...)"

6. Revise the section in the left column on page three which begins: "Escherichia coli (E. coli), Salmonella choleraesuis...are common germs..." by deleting the term "harmful" which implies heightened efficacy.

7. Revise the 4th statement in the right column on page three by deleting the reference to "Bacterial Spot of Tomatoes" as treatment against this organism is not identified in the directions for use section of your label.

8. Revise the 5<sup>th</sup> and 6<sup>th</sup> statements in the right column on page three to be in agreement with PR Notice 2000-5 which requires mandatory language. Revise to state: "This product is for Poultry Premise..." and "This product is for Swine Premise..."

9. Revise the statement in the left column on page four which begins: "Maquat 256 MN, when used as directed is formulated..." by deleting "and sanitize" as the sites and surfaces which follow include those found in hospitals for which sanitization is not an appropriate claim. Hospital surfaces must be disinfected.

10. The following section in the right column of page four beginning: "Hospital beds, traction devices, MRI, CAT..." is only to be included on labels with the FDA/EPA Memorandum of Understand statement which begins: "This product is not to be used as a terminal sterilant...high-level disinfectant."

11. Delete the 2<sup>nd</sup> statement in the left column of page six: "At 2 ounces per gallon ...effective against Hantavirus with a contact time of 10 minutes." This claim is not supported by the cited data.

12. Revise the HIV, HCV, and HBV directions on page six by revising the Personal Protection section such that it is in agreement with the mandatory label language requirement as per PR Notice 2000-5. Delete the statement: "Cleanup should always by done wearing protective latex gloves, gowns, masks, and eye protection." Then delete the parenthesis surrounding the statement which follows as this statement is not optional.

13. Under "Virucidal Performance" on page 5, delete the following viruses, Avian

Influenza A/Turkey/Wisconsin, Hantavirus, ~~SRV, MANGE~~ possible Gastroenteritis Virus as these organisms have not been supported by the data.

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14. On page 6, delete the entire selection beginning with "Special Instructions for Cleaning and Disinfecting Areas infected w/ Hantavirus" and ending with "treat the surface again following the label directions and allow to stand undisturbed for 10 minutes."

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

16. Under "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.

17. The "Surgical Instrument Presoak" directions on page 7 may appear only on labels carrying the EPA and FDA Memorandum of Understanding paragraph, "This product is not to be used as a terminal sterilant .....high level disinfection."

18. The "Food Processing and Tobacco Premises" directions on page 6 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.

19. The "Application and Use Dilution Poultry/Turkey/Swine Premise, Animal Quarters and Kennels" directions on page 8 must be revised to read "Remove all animals and feeds from premises, vehicles (trucks and cars), and enclosures (coops, crates, kennels)."

20. You have not cited data to support the claim for "Laundry Sanitizer (Against Odor Causing Bacteria)". Delete this entire section from your label.

21. Under the "Shoe Bath Sanitizer Directions" directions on page 10 revise the first statement to begin exactly as follows: "To prevent cross contamination from area to area in animal premises, and the packaging and storage..." Revise the "Shoe Foam Directions" and the "Entryway Sanitizing Systems" in the same manner.

22. On page 10, you have proposed the additional use: "Dairy Cow Application Directions" for use on udders, flanks, and teats of dairy cows. Approval of this use must be obtained from the Food and Drug Administration (FDA) since this use is considered an animal drug. Delete this use until such time as you are able to supply the Agency with an FDA approval.

24. The heading, "Humidifier Sanitizer Directions" on page 10 must be revised to read "Humidifier Directions" because the term, ~~Sanitizer~~ is appropriate for this use. The directions

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state that the product is treating the water not the tank; this product is registered for disinfecting/sanitizing hard, nonporous surfaces.

25. 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)(3) and method 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 to demonstrate an appropriate kill for organisms typically found in footbaths.

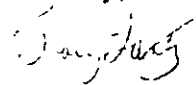
**General Comments**

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/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 Jacqueline McFarlane at (703) 308-6416.

Sincerely,

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

Enclosure: Stamped Label

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**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 absorbed through skin. Harmful if swallowed. Harmful if inhaled. Avoid breathing 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. 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 MN**

Disinfectant, Cleaner, Mildewstat, Sanitizer (nonfood contact surfaces) Virucide\*, Deodorizer for Hospitals, Nursing Home, Whirlpool, Home, Hotels & Motels, Waterbed Conditioner, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey, Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use, and for Harvesting & Handling Equipment. Effective as a disinfectant in hard water up to 400 ppm hardness (Calculated as CaCO3) in the presence of 5% serum contamination.

Small Fly Ovicidal Treatment.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

**ACTIVE INGREDIENTS:**

Octyl Decyl Dimethyl Ammonium Chloride .....	6.510%
Didecyl Dimethyl Ammonium Chloride .....	3.255%
Diocetyl Dimethyl Ammonium Chloride .....	3.255%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	8.680%

<b>INERT INGREDIENTS:</b> .....	78.300%
<b>TOTAL</b> .....	100.000%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

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**

"THE QUATERNARY SPECIALISTS" Letter Dated:

721 W. Algonquin Road  
Arlington Heights, IL 60005

847-290-1621

Toll Free:

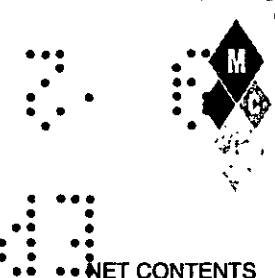
1-800-362-1855

E.P.A. Reg. No. 10324-108

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

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

10324-108



NET CONTENTS

BATCH NO

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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.

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 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 [redacted] for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors. (Not for use in California.)

This product is [redacted] for use as a disinfectant on hard, non-porous surfaces (at 850 ppm active). A potable water rinse is required after application on food contact surfaces.

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 and broad-spectrum disinfectant formulated for use on bath and therapy equipment (Whirlpools).

Use this product to nitize and disinfect non-porous salon/barber tools and instruments: (such as) combs, clippers, brushes, trimmers, razors, scissors, blades, tweezers, and baths and manicure/pedicure instruments, [redacted].

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

This product may be applied through [redacted] washing systems, [redacted], [redacted], 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 cause(d) 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.

[redacted].

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 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 [redacted] 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.

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, headphones, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Precaution: Cleaning at the [redacted] 120°F temperature will avoid overheating and distortion of the personal safety 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 [redacted] 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.)

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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 counter tops. (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 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.

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

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

Floor cleaner.

One-step cleaner.

Cleans everyday kitchen messes.

Cleans non-food contact 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.

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 germs and helps prevent the spread of food borne contamination on (treated) kitchen surfaces listed on this label. A potable water rinse is required after application on food contact surfaces. This product is not for use on dishes, glassware or eating utensils.

Disinfects (and Sanitizes) kitchen surfaces (bathroom surfaces and floors). Sanitizes kitchen surfaces (bathroom surfaces and floors). Kills germs. Kills household bacteria. A potable water rinse is required after application on food contact surfaces.

Antibacterial.

Hospital use Disinfectant Institutional Disinfectant (Sanitizer).

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

Effective sanitizer in the presence of 5% serum contamination. (This product is an effective disinfectant/sanitizer in the presence of 5% serum contamination.)

Effective sanitizer in the presence of soils. (This product is an effective sanitizer in the presence of soils.)

This product is effective against Citrus Canker through the treatment of the handling, harvesting, storage and transportation equipment. (Not for use in California.)

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

Maquat 256 MN for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms/ theaters, isolation wards, quarantine areas, ophthalmic/optometric facilities, and medical research facilities. cadaver processing areas.
- Patient care rooms & facilities, recovery rooms, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, , out-patient surgical centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms, exam rooms, radiology rooms.
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, police cars, fire trucks.
- Day care centers, nurseries, sick rooms.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities, elder care facilities.
- Restaurants, restaurants and bars, bars, taverns, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza stores, liquor stores.
- Crime scenes, funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms.
- Police stations, courthouses, correctional facilities, jails, prisons, correctional institutions, municipal government buildings, penitentiaries, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, and transportation terminals.

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- Public restrooms, public facilities, waysides, travel rest areas, stair rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households), apartments.
- 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.
- Humidifier water tanks. *(Not for use in California.)*
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes, RV's and watercraft.
- 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, Milk, Citrus, Fruit, Vegetable, Ice Cream, and Potatoes and beverage plants.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes, helicopters, automobile interiors.
- 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.
- Cruise lines, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops. *(Not for use in California)*
- Basements, cellars, bedrooms, attics, living rooms and porches.

MAQUAT 256 MN, when used as directed, is formulated to disinfect **hard**, non-porous inanimate environmental surfaces such as:

- Food preparation and storage areas.
- Non-food contact countertops (counters), sinks (bathroom, kitchen), tub surfaces, and non-food contact surfaces of Sturppy<sup>®</sup> machines, and exterior surfaces of refrigerators and microwaves, coolers (refrigerator exteriors), freezers, stovetops, appliances, non-food contact equipment, shelves, racks and carts.
- Non-food contact glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polystyrene, polyvinylchloride, polycarbonate or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl.

- Enameled surfaces painted woodwork (finished), Formica<sup>®</sup>, vinyl and plastic upholstery, porcelain, washable wallpaper.
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, workstations, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans/ pails, cuspidors and spittoons, trash barrels/cans, fishing gear.
- Hospital beds, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, baby cribs, bed railings, bedpans, cervical collars, CPR training mannequins, curing lights, dental chairs/countertops/instruments/implements/OR surfaces, diaper changing stations, folding tables, gurneys, incubators, warmers, neck braces, optical instruments/implements, oxygen hoods, spine backboards, stretchers, slit lamps, unit stools.
- 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, 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.
- Drinking fountains and break rooms. .
- 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, vanity tops, porcelain tile and restroom fixtures, laundry pails.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, kennel/cages floors, and conductive flooring.
- Windows and mirrors.

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants at 400 ppm water hardness.

This product meets AOAC efficacy standards for hard surface sanitizers.

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

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces utilizing (Duck) Hepatitis B and Hepatitis C Viruses. *(Not for use in California.)*

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing (Duck) Hepatitis B Virus and Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus).

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

This product is effective against the control of small flies on non-food contact surfaces such as floors, walls, drains, countertops, metal surfaces, painted surfaces, glazed

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porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas.

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.

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

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. 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

**PREPARATION OF USE SOLUTION:** For water hardness up to 400 ppm add ½ ounce per gallon (4 milliliters per liter) of water (1:256) (850 ppm active quat) 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.

MAQUAT 256 MN is a Hospital Use Disinfectant at ½ ounce per gallon (4 milliliters per liter), (1:256 dilution), modified in the presence of 400 ppm hard water.

MAQUAT 256 MN is bactericidal according to the AOAC Use Dilution Test method (on hard inanimate surfaces), virucidal\* according to the virucidal qualification on hard inanimate surfaces, modified in the presence of 5% organic serum against:

*Acinetobacter anitratus*  
*Acinetobacter baumannii*  
*Acinetobacter calcoaceticus*  
*Burkholderia cepacia*  
*Campylobacter jejuni*  
*Chlamydia psittaci*  
*Corynebacterium ammoniagenes*  
*Enterobacter aerogenes*  
*Enterobacter cloacae*  
*Enterococcus faecalis*  
*Enterococcus faecalis* Multiple Drug Resistant  
*Enterococcus faecalis* (Gentamycin Resistant)  
*Enterococcus faecalis* (Streptomycin Sensitive)

*Klebsiella pneumoniae* (Cephalothin Resistant)  
*Klebsiella pneumoniae* (Ciprofloxacin Resistant)  
*Klebsiella pneumoniae* (Gentamicin Resistant)  
*Klebsiella pneumoniae* (Mezocillin Resistant)  
*Klebsiella pneumoniae* (Ticarcillin Resistant)  
*Klebsiella pneumoniae* (Tobramycin Resistant)  
*Klebsiella pneumoniae* (Oxacillin Resistant)  
*Klebsiella pneumoniae* (Cefotetan Sensitive)  
*Klebsiella pneumoniae* (Trimeth-sulfa Sensitive)  
*Listeria monocytogenes*  
*Proteus vulgaris*  
*Pseudomonas aeruginosa*  
*Salmonella choleraesuis*

*Enterococcus faecalis* (Vancomycin Resistant) (VRE)  
*Enterococcus faecalis* (Ciprofloxacin Sensitive)  
*Enterococcus faecalis* (Penicillin G Sensitive)  
*Enterococcus faecalis* (Tetracycline Sensitive)  
*Enterococcus faecium* (Vancomycin Resistant) (VRE)  
*Escherichia coli*  
*Escherichia coli* Antibiotic Resistant  
*Escherichia coli* (Ampicillin Resistant)  
*Escherichia coli* (Cephalothin Resistant)  
*Escherichia coli* (Ciprofloxacin Resistant)  
*Escherichia coli* (Gentamicin Resistant)  
*Escherichia coli* (Mezocillin Resistant)  
*Escherichia coli* (Ticarcillin Resistant)  
*Escherichia coli* (Tobramycin Resistant)  
*Escherichia coli* (Trimeth-Sulfa Resistant)  
*Escherichia coli* (Oxacillin Resistant)  
*Escherichia coli* (Cefotaxime Sensitive)  
*Escherichia coli* (Cefotetan Sensitive)  
*Escherichia coli* (Ceftizoxime Sensitive)  
*Escherichia coli* O157:H7  
*Klebsiella pneumoniae*  
*Klebsiella pneumoniae* Antibiotic Resistant  
*Klebsiella pneumoniae* (Ampicillin Resistant)  
*Klebsiella pneumoniae* (Cefotaxime-Intermediate Resistant)  
*Klebsiella pneumoniae* (Ceftizoxime-Intermediate Resistant)

*Salmonella schottmuelleri*  
*Salmonella typhi*  
*Salmonella typhimurium*  
*Serratia marcescens*  
*Shigella dysenteriae*  
*Shigella flexneri*  
*Shigella sonnei*  
*Staphylococcus aureus*  
*Staphylococcus aureus* Multiple Drug Resistant  
*Staphylococcus aureus* (Ampicillin Resistant)  
*Staphylococcus aureus* (Cefotaxime Resistant)  
*Staphylococcus aureus* (Cephalothin Resistant)  
*Staphylococcus aureus* (Ciprofloxacin Sensitive)  
*Staphylococcus aureus* (Clindamycin Resistant)  
*Staphylococcus aureus* (Erythromycin Resistant)  
*Staphylococcus aureus* (Methicillin Resistant) (MRSA)  
*Staphylococcus aureus* (Oxacillin Resistant)  
*Staphylococcus aureus* (Penicillin G Resistant)  
*Staphylococcus aureus* (Tetracycline-Intermediate Resistant)  
*Staphylococcus aureus* (Trimeth/Sulfa Sensitive)  
*Staphylococcus aureus* (Vancomycin Sensitive)  
*Staphylococcus epidermidis*  
*Streptococcus pyogenes*

Fungicidal against: *Aspergillus niger*

### Hospital/Disinfection/Virucidal/Fungicidal Dilution Chart

Ounces of Product	Amount of Water
1/8 ounces	1 quart
¼ ounce	½ Gallon
½ ounce	1 gallon
1 ¼ ounces	2 ½ gallons
2 ½ ounces	5 gallons
5.0 ounces	10 gallons

\***Virucidal Performance :** At ½ ounce per gallon of water use level, (850 ppm active quat) treated surfaces must remain wet for ten minutes. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes diluted or soiled.

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

[Redacted] in	HIV-1 (AIDS virus)
Canine Distemper Virus	Influenza A/PR Virus
Hepatitis B Virus (HBV)	Infectious Bovine Rhinotracheitis (IBR)
Herpes Simplex virus Type 1	Newcastle disease virus
Herpes Simplex virus Type 2	Porcine Respiratory & Reproductive Virus (PRRSV)
[Redacted]	Porcine Rotavirus
Human Coronavirus	Pseudorabies Virus
Hepatitis C Virus	[Redacted]
Canine Coronavirus	Vaccinia Virus

**Disinfection\*Virucidal/Fungicidal 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 (mist).

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.

At ½ ounce per one gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 400 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.

At ½ ounce per one gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% serum this product was proven to be effective against Hepatitis C Virus with a contact time of 10 minutes. (Not for use in California.)

At ½ ounce per gallon (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% organic load, this product was proven to be effective against Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

**\*KILLS HIV, HBV AND HCV 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 blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

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

**Personal Protection:** 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 containing HIV-1, HBV & HCV 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 ½ ounce per gallon (4 milliliters per liter) use solution.

**For Use on Finished Floors:** To limit gloss reduction, use ½ ounces of this product per gallon of water. Apply with a damp mop or auto scrubber. Allow to air dry.

**General Deodorization:** To deodorize, add ½ ounce of this product to 1 gallon of water (or equivalent use dilution) (850 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 preclean for the product to perform properly. Use ½ ounce per gallon of this product or other suitable detergent system for pre-cleaning step. Then, apply a wetting concentration of 1½ 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".

**Mold and Mildew Control Directions:** Add ½ ounce of this product 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 reappears.

**Cleansing of Body Surfaces and Body Orifices of Human Remains:** To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, apply ½ ounce of this product to 1 gallon of water (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 ½ ounce per 1 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/Virucide for Barber/Salon Tools Directions:** Immerse pre-cleaned barber/salon tools (such as combs, brushes, razors, manicure/pedicure tools, clippers, tweezers, clipper and trimmer blades, cutting implements, rollers, and scissors) in a ½

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ounce per gallon solution (or equivalent use dilution) (850 ppm active quat) of the product. 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 ½ oz 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. 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 sprayer application, use a coarse spray device.

**For Heavy Duty Cleaning:** 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. For sprayer applications, use a coarse spray device.

**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. Apply solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Allow to air dry or wipe up excess liquid. Rub with sponge or cloth. Do not breathe spray (mist).

**RV Holding Tanks/Recreational Vehicles:** For toilet waste and holding tanks, cover bottom of holding tank with water and ¼ – 1 ounce per gallon of water to deodorize. If odors return before time to empty, add ¼ – ½ ounce to the tank. For kitchen waste, add ¼ to ½ ounces to gray water tank as needed to control malodors created by dirty dishwasher.

**Ultrasonic Bath Disinfectant Directions:** Use this product to disinfectant hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution at ½ ounce of this product per gallon of water (1:256) directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturers' (use) directions. Remove objects and wash (rinse) with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use.

**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 fresh water added. 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.

**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 2.5 ounces of this product for each 5 gallons of water (½ ounces per one gallon) (850 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solution. 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 solution from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse.

**Surgical Instrument Presoak:** Add ½ ounce of this product to 1 gallon of water (or equivalent use dilution) (850 ppm active quat). Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure.

**To Disinfect Food-Processing and Tobacco Premises:** (For) floors, walls and storage areas, add ½ ounce of this product to 1 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. Before using this product food products and packaging materials must be removed from area or carefully protected. Add ½ ounce of this product to 1 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. Allow to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. This product is not for use on dishes, glassware or eating utensils.

**For Use on Non-food Contact Surfaces as a General Disinfectant in the Brewery Industry:** Use ½ ounce of this product per 1 gallon (or equivalent use dilution) (850 ppm active quat) of water. Follow the 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 ounces product to 1 gallon of water (or equivalent use dilution) (1,270 ppm). Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.

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

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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/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 ½ ounce 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:** Use ½ ounce of this product per gallon of water to treat the following hard, non-porous surfaces: hatcher, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. Use ½ ounce per gallon of water to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more and allow to air dry. For sprayer applications, use a coarse spray device.

**RENDERING PLANT/DRESSING PLANT DISINFECTANT/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 ½ ounces of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Surfaces 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. Thoroughly rinse all wetted and cleaned surfaces with potable water.

OR

**DRESSING PLANT USE/ RENDERING PLANT DISINFECTANT/VIRUCIDE 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 (850 ppm active quat). Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water. Rinse all surfaces which contact food with potable water before reuse.

**FARM PREMISE USE (Equine, Poultry/Turkey, Dairy and Hog Farms):** Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from

premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use solution of ½ ounce of this product per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

OR

**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 traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting/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 (½ 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.

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**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 (½ 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.

#### **POULTRY/TURKEY/SWINE PREMISE, ANIMAL QUARTERS AND KENNEL 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.

**Application and Use Dilution Poultry/Turkey/Swine Premise, Animal Quarters and Kennels:** Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and other 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 of MAQUAT 256 MN 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. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers, and other equipment which may contact food or water 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 contamination. Follow general disinfecting directions as outlined in that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

#### **Veterinary Practice (Clinics)/Animal Care, Animal Laboratory/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and Grooming Establishments/Tack Shops Disinfection Directions:**

For cleaning and disinfecting the following hard, non-porous surfaces: equipment not used for animal food or water, 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 occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of ½ ounce of this product per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers, and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

**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 of this product 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 (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 the Drosophila spp. and Phoridae Family of Flies on Non-Food Contact Surfaces:** To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of ½ ounce of this product per gallon of water (or equivalent use dilution) (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 ounces 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.

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If bed has not been treated properly, drain bed completely. Add 15 ons 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 1.875 ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 3.75 ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

**Citrus Canker Control (Not Applicable in California):** For prevention of Citrus Canker Disease through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker) at 2000 ppm active quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution ratio of 1:108 (2000 ppm active quat). Treatment can be applied to trucks, attached trailers, field harvesting equipment; including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using maximum rate 2000 ppm quat. For sprayer applications, use a coarse spray device. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing should be either thoroughly rinsed or laundered before reuse. Footwear should be rinsed before reuse.

#### SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS

**Preparation of Sanitizer Use Solution:** Add ½ ounce per gallon (4 milliliters per liter) of water to sanitize hard, non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds. Allow to air dry. This product is not for use to disinfect, sanitize, or clean eating utensils, glassware and dishes.

*Staphylococcus aureus*

*Klebsiella pneumoniae*

**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 (mist). Let stand for 60 seconds. Then wipe. Allow to air dry.

**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 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 60 seconds prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

**SHOE FOAM DIRECTIONS :** To prevent 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 ¾ ounces per gallon of water (or equivalent use dilution) (850 to 1271 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 60 seconds 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.

**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) (850 ppm active) of water for at least 60 seconds. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

**NOTE:** 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.

**TO SANITIZE HOOF TRIMMING EQUIPMENT:** Prior to application, pre-clean hoof trimming equipment and utensils before and after use on each animal with detergent and warm water or compatible cleaner to remove soil using a pre-scrape, pre-flush, or when necessary, pre-soak followed by a potable water rinse. To sanitize, prepare a ½ oz of this product per 1 gallon of water solution. Apply to pre-cleaned hard surfaces using a cloth, mop, sponge or sprayer or by immersion to thoroughly wet surfaces. Allow surfaces to remain wet for at least 60 seconds followed by adequate draining or air drying. Prepare fresh solution at least daily or when solution becomes visibly dirty.

**Humidifier Directions (Not Applicable in California):** Thoroughly clean water tank and filters. Add ½ ounces of this product per gallon of refill water.

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 ½

ounce of this product. When you refill the tank, add ½ ounce of 1 product for every gallon of water added.

Not for use in heat or atomizing type humidifiers.

**Ultrasonic Bath Sanitizing Directions :** Use this product to sanitize hard (inanimate) nonporous non-critical objects compatible with Ultrasonic cleaning units. Pour 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 1 minute, 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.

**NOTE:** This product in its use solution is compatible with stainless steel, aluminum and most other surfaces. Before product use, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

**For Sanitizing Hard, Non porous Whirlpool Units :** After using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add ½ ounce of this product for each gallon of water (or equivalent use dilution) (850 ppm active quat) 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. Treated surfaces must remain wet for 60 seconds. After the unit has been thoroughly sanitized, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse.

#### **WATER AND SMOKE DAMAGE RESTORATION (Not Applicable 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, upholstery, drapes, 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.

**SMOKE DAMAGE RESTORATION (Not Applicable 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, upholstery, drapes, 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.

**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, upholstery, drapes 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, 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 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 ½ ounce of this product per gallon of water.

**For truck mounted extraction machines:** Mix 6 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 (Not Applicable in California)**

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, hotels 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 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.

#### **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. Close room off so fog is confined to room to be treated. Mix one part this product to five parts water (½ gallon this product to 2.5 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. Do not allow people to contact or breath this fog and do not enter until the fog has settled. It is acceptable to fog setters and hatchers with a 1/2 ounce per gallon solution of MAQUAT 256 MN 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

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racks, mangers, troughs, automatic feeders, fountains and wets 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 ¼ 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 the removal of gross contamination and debris. This may be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

**Disinfection:** Use ½ ounce of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces 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 1 ounce of this product per gallon of water (or equivalent dilution). Heavily soiled areas may require repeated cleaning before treatment.

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

*(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.

## 2 OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL

FOR DISINFECTION  
MIX EACH PACKET WITH 4 GALLONS OF WATER

# MAQUAT 256 MN

E.P.A. Reg. No. 10324-108 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 2 FLUID OZ.

#### ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride .....	6.510%
Didecyl Dimethyl Ammonium Chloride.....	3.255%
Dioctyl Dimethyl Ammonium Chloride.....	3.255%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	8.680%

INERT INGREDIENTS: .....	78.300%
TOTAL .....	100.000%

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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