

10324-140

01/15/2009

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1/14

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

JAN 15 2009

Subject: Maquat MQ2525M-CPV  
EPA Registration No.: 10324-140  
Amendment Date: August 1, 2008  
EPA Receipt Date: August 22, 2008

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 subject to the conditions listed below:

- Addition of public health organisms
- Addition of directions for use and marketing claims
- Review of Toxicity Data

**Acceptable Data**

**Efficacy**

This product may rely on efficacy data submitted on 10324-57.

**Acute Toxicity**

This letter references two Acute Toxicity reviews for this product: DP D356485 and D312664. Both are attached as addendums to this letter. The table which follows summarizes both reviews.

CONCURRENCES							
SYMBOL	7510P						
SURNAME	J. J. [Signature]						
DATE	1/13/09						

Data Requirement	Means of Support	Status/Tox. Category
Acute Oral Toxicity	Submitted study, MRID 464388-33	Acceptable/III
Acute Dermal Toxicity	Submitted study, MRID 475351-01	Acceptable/III
Acute Inhalation Toxicity	None	Data Gap
Primary Eye Irritation	Submitted study, MRID 464388-36	Acceptable/I
Primary Skin Irritation	Submitted study, MRID 464388-32	Acceptable/I
Dermal Sensitization	Submitted study, MRID 464388-34	Unacceptable/Data Gap

**Conditions**

Revise the label as follows:

- 1) Based on the data submitted to support this product which places it in Tox Category I for Primary Eye and Skin Irritation, as well as the use sites on this label, this product meets the Agency standard for Child Resistant Packaging. Submit the Certification for Child Resistant Packaging within 30 days of the date of this letter.
- 2) As per the Label Review Manual revise to include: "Wash thoroughly with soap and water after handling *and before eating, drinking, using tobacco or using the toilet.*"
- 3) Revise the statement in the left column of page three which begins: "Non-food contact glass, metal, stainless steel..." to identify only hard non-porous surfaces. Revise to read as follows: "Non-food contact glass, metal, stainless steel, glazed porcelain, glazed ceramic, *sealed* granite, *sealed* marble..."
- 4) The directions for household use on kitchen and bathroom surfaces (page nine) indicate that this product is not to be used on paint or acrylic plastics. As such, delete the claims in the fifth bullet on page three which indicated that this product may be used on "Enameled surfaces, painted woodwork."
- 5) Revise the claim on page three, left column to read as follows: "Kills Avian Influenza **virus** on pre-cleaned environmental surfaces." (Bold text for emphasis only)
- 6) Revise the claim on page three, right column which begins: "For use on hard, non-porous surfaces in animal care..." to include: "*glazed* ceramic tile."
- 7) The statement on page three, right column which begins: "At 3 ounces per gallon (or equivalent use dilution)...against Hanta virus..." belongs in the directions for use section, not the marketing section of the label. Place this statement in the Directions for Use section in close proximity to the additional directions for use to treat areas infested with Hantavirus.

**CONCURRENCES**

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- 8) Add the following text to bring the Surgical Instrument Presoak section on page five into agreement with other Mason labels. Add: *"Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled."*
- 9) Delete the "Note" under the "Surgical Instrument Presoak" directions on page five. Plastic surgical instruments cannot remain immersed until ready to use. Plastic and metal instruments must be sterilized before they can be reused during surgery. This product is not an approved liquid chemical sterilant.
- 10) Correct the "To Disinfect Food-Processing and Tobacco Premise" and "To Disinfect Food Service Establishment Food Contact Surfaces" directions on page six by placing the statement: "Before using this product...from the area or carefully protected." as the first statement in each section.
- 11) Revise the Directions for Fogging For Use in Dairies, Beverage and Food Processing Plants in the left column of page six. Once the surfaces have been treated with a food contact sanitizer, these food contact surfaces do not need to be rinsed. Delete the statement "All food contact surfaces must be thoroughly rinsed prior to reuse with potable water."
- 12) Revise the list of organisms for Animal Premises Virucidal Performance on page two to include the complete list of animal pathogens by including: Canine Parvovirus (CPV), Minute Virus of Mice (Parvovirus) and Porcine Parvovirus.
- 13) Revise the directions for use on page seven for Rendering Plant/Dressing Plant Disinfection Directions to include the following as the third statement: *"Preclean all surfaces before using this product."*
- 14) There are several sections in the Animal Premise directions which refer to the disinfection or virucidal solution. Since this product includes the same rate for disinfection and virucidal use, (for all organisms except Canine Parvovirus (CPV), Minute Virus of Mice (Parvovirus) and Porcine Parvovirus) the following sections must be revised to read disinfection **and** virucidal solution. Revise: Veal, Calving Hog, Cattle and Horse Operations and Farm Premise Disinfection Directions.
- 15) Revise the "Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment..." on page eight by correcting the first statement to read: *"Prior to use remove all animals..."*
- 16) Correct the Meat Packing Plants directions on page eight to read: "...livestock vehicles and holding pens, *receiving* areas..."
- 17) Revise the Meat Packing Plant directions on page nine. State: "...For *pre-cleaning* saturate all surfaces..." deleting "application". Then add an additional step to indicate that surfaces must be treated again at 3 ounces per gallon with a 10 minute contact time in order to disinfect.

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18) Revise the Restroom/Bathroom directions on page nine by adding the following as the first statement in the From Concentrate and From Use-Dilution sections: "Pre-clean surfaces."

19) Delete the directions for treatment of artificial turf from page nine. The Agency is not accepting claims for disinfection of artificial turf at this time. It is believed that a more thorough evaluation of the post application exposure, environmental concerns, and efficacy considerations must be addressed prior to accepting this claim. Any Registrants with product labels currently in the market place with such a claim will be notified and asked to remove the claim pending a complete review associated with this use.

20) Revise the Disinfect/Deodorize section under "Other" on page nine by deleting the statement: "The pre-clean step must be done according to the instructions under Restroom/Bathroom." The Restroom/Bathroom section does not include pre-cleaning directions, thus this is not an accurate statement.

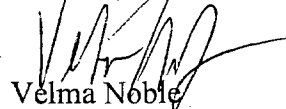
**General Comments**

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 (7510P)

Enclosure: Stamped Label, DER D356485, D312664  
7510P:T.Lantz:1/12/09:10324-140Carp

**CONCURRENCES**

SYMBOL							
SURNAME							
DATE							



**MASON CHEMICAL COMPANY**

**"The Quaternary Specialists"**

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

E.P.A. Reg. No. 10324-140

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

**MAQUAT<sup>®</sup> MQ2525M-CPV**

**Net Contents:**

**Batch No:**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS  
DANGER**

**Keep Out of Reach of Children.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled, or absorbed through the skin. Do not get into eyes, on skin or on clothing. Avoid breathing vapor or spray mist. 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.

*(If container is less than 5 gallons the following statement must appear on the label.)*

**ENVIRONMENTAL HAZARD**

This product is toxic to fish.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not mix with oxidizers, anionic soaps and detergents.  
Do not use or store near heat or open flame.

*(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).

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

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

Disinfectant, Deodorizer, Virucide\*, With Organic Soil Tolerance for, Veterinary Clinics, Pet Shops, Kennels, Animal Care Facilities, Tack Shops, Animal Life Science Laboratories, Breeding And Grooming Establishments, Food Processing Facilities, and Farms.

**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 ..... 1.60%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)  
dimethyl ethylbenzyl ammonium chloride..... 1.60%

**INERT INGREDIENTS:** ..... 96.80%

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

**KEEP OUT OF REACH OF CHILDREN  
DANGER PELIGRO**

**See left (back) (side) (right) panel (of label) (below) 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.

**ACCEPTED**

*(Note to Reviewer: This information has been reviewed with comments and regulations. It is NOT required to be on the label but is being requested by EPA letter Dated:*

**Transportation Information**

**DOT Hazard Class:** 8 Corrosive

**DOT Proper Shipping Name:** Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PGII

**JAN 15 2009**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-140

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

**Table of Contents**

Description	Page No.
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**ORGANISM LIST**

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

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

- Corynebacterium ammoniagenes* (ATCC 6872)
- Bordetella bronchiseptica* (ATCC 10580)
- Enterobacteriaceae w/beta lactamase resistance* (ATCC BAA-72)
- Enterobacter aerogenes* (ATCC 13048)
- Enterococcus faecalis* (ATCC 29212)
- Enterococcus faecalis* Vancomycin Resistant (ATCC 51299)
- Escherichia coli* (ATCC 11229)
- Klebsiella pneumoniae* (ATCC 4352)
- Listeria monocytogenes* (ATCC 19117)
- Pseudomonas aeruginosa* (ATCC 15442)
- Salmonella enterica* (ATCC 10708)
- Salmonella schottmuelleri* (ATCC 8759)
- Salmonella typhi* (ATCC 6539)
- Serratia marcescens* (ATCC 14756)
- Shigella dysenteriae* (ATCC 11835)
- Staphylococcus aureus* (ATCC 6538)
- Staphylococcus aureus-MRSA* (ATCC 33592)
- Staphylococcus aureus-VISA* (HIP 5836)
- Streptococcus salivarius* (ATCC 7073)

**VIROCIDAL PERFORMANCE:** 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:

- Avian Influenza A (H3N2)
- Hantavirus
- Herpes simplex virus Type 1
- Herpes simplex virus Type 2
- HIV-1 (AIDS Virus)
- Human Coronavirus
- Influenza A/Asian Virus
- Influenza A2/Japan virus

**ANIMAL PREMISE VIRUCIDAL PERFORMANCE:** 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:

- Avian Influenza A (H3N2) (\*new fm 10324-57)
- Canine Adenovirus
- Canine Coronavirus
- Canine Distemper Virus
- Canine Parainfluenza Virus
- Feline Calicivirus
- Feline Infectious Peritonitis
- Feline leukemia
- Feline Panleukopenia
- Feline Picornavirus
- Feline Rhinotracheitis
- Infectious Canine Hepatitis Virus
- Murine Parainfluenza virus type 1
- Newcastle Virus
- Pseudorabies Virus
- Rabies Virus
- Vaccinia Virus

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

- Aspergillus niger* (ATCC 6275) (\*have data on 10324-57)
- Trichophyton mentagrophytes* (ATCC 9533)

**MARKETING CLAIMS**

Maquat MQ2525M-CPV for use in:

- Veterinary clinics, animal life science laboratories, , animal research centers, animal quarantine areas, animal breeding facilities, animal grooming areas, animal holding areas, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities.
- Farmhouses, barns, sheds, tool sheds, cattle barns, swine barns, sheep barns, horse barns, brooder houses.
- Animal holding areas, waiting rooms, examination rooms, x ray, operating rooms.
- Dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, rendering plants, rendering plants, canneries.
- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, radiology rooms, isolation wards, and medical research facilities, hospices.
- Patient care rooms & facilities, recovery rooms, anesthesia, Emergency Rooms, X-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial room, ophthalmic/optometric facilities.
- EMS & fire facilities, emergency vehicles, ambulances, ambulance equipment/surfaces, carts, gurneys, stretchers, police cars, fire trucks.

h/g

- Day care centers and nurseries, sick rooms, elder care centers, kindergartens, and preschools.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities.

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

- Non-food contact glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic, chrome and vinyl.
- ~~Framed surfaces, painted woodwork,~~ Formica®, vinyl and plastic upholstery.
- Tables, chairs, desks, lifts, washable walls, cabinets, doorknobs and garbage cans.
- Examination tables, X ray tables, washing areas, animal grooming areas.
- Picnic tables and outdoor furniture, except cushions and wood frames.
- Telephones and telephone booths.
- Kennels, kennel runs, cages, floors, kennel/cage floors, conductive flooring.
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers.
- Hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, cervical collars, neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops.

This product contains no phosphorous.

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

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

This product is a concentrated disinfectant that is effective against a broad spectrum of bacteria and is virucidal\* when used as directed.

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

Cross contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces.

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

This product is an effective disinfectant in the presence of 5% serum contamination.

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.

Kill Avian Influenza on pre-cleaned environmental surfaces.

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

Hospital Use Disinfectant. Institutional Disinfectant.

Cross contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces in hospitals.

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

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

This product maximizes labor results by effectively controlling odors.

When used as directed, this product will deodorize surfaces where bacterial growth can cause malodors.

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

This product inhibits odor causing bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. (Note: Statement not for use in California.)

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

This product will not leave a grit or soap scum.

Kills Athlete's Foot fungus on bathroom surfaces.

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

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

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

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

This product cleans rodent soiled areas.

This product is for Poultry Premise Sanitation (Hatcheries)

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

This product is for Swine Premise Sanitation:

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

For use on hard, non-porous surfaces in animal care facilities such as floors, walls, cabinets, chairs, tables, cages, feeding and watering equipment, furniture, operating tables, metal surfaces, stainless steel, glazed porcelain, painted or sealed woodwork, ceramic tile and plastic.

At 3 ounces per gallon (or equivalent use dilution) in the presence 5% organic load, this product was proven to be effective against Hantavirus with a contact time of 10 minutes.

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## DIRECTIONS FOR USE

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

**PREPARATION OF DISINFECTION/FUNGICIDAL/VIRUCIDAL USE SOLUTION:** To disinfect hard inanimate surfaces (such as walls, floors, table tops), apply 3 ounces of this product per 1 gallon of water with a cloth, mop, sponge or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Then let surface air dry. Do not breathe spray. Prepare a fresh solution at least daily or sooner if use solution becomes visibly dirty.

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

### DISINFECTION

**DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) and NON-MEDICAL FACILITIES (Households, Schools, Food Processing Plants and Other Non-Medical Facilities):** Add 3 ounces of this product to one gallon of water (or equivalent dilution) (750 ppm active quat) OR mix a 3-ounce packet with one gallon 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:

*Corynebacterium ammoniagenes* (ATCC 6872)  
*Bordetella bronchiseptica* (ATCC 10580)  
*Enterobacteriaceae w/beta lactamase resistance* (ATCC BAA-72)  
*Enterobacter aerogenes* (ATCC 13048)  
*Enterococcus faecalis* (ATCC 29212)  
*Enterococcus faecalis* Vancomycin Resistant (ATCC 51299)  
*Escherichia coli* (ATCC 11229)  
*Klebsiella pneumoniae* (ATCC 4352)  
*Listeria monocytogenes* (ATCC 19117)  
*Pseudomonas aeruginosa* (ATCC 15442)  
*Salmonella enterica* (ATCC 10708)  
*Salmonella schottmuelleri* (ATCC 8759)  
*Salmonella typhi* (ATCC 6539)  
*Serratia marcescens* (ATCC 14756)  
*Shigella dysenteriae* (ATCC 11835)  
*Staphylococcus aureus* (ATCC 6538)  
*Staphylococcus aureus-MRSA* (ATCC 33592)  
*Staphylococcus aureus-VISA* (HIP 5836)  
*Streptococcus salivarius* (ATCC 7073)

**VIRUCIDAL PERFORMANCE:** At 3 ounces per one gallon use level or equivalent dilution (750 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 A (H3N2) (\*new - have data on 10324-57)  
Human Coronavirus  
Hantavirus  
Herpes Simplex Type 1  
Herpes simplex virus Type 2  
HIV-1 (AIDS Virus) (\*with a two minute contact time)

Influenza A/Asian virus

Influenza A2/Japan virus

At 3 ounces per one gallon in the presence of 5% blood serum for a two-minute contact time this product was found to be effective against:

HIV-1 (AIDS Virus)

**FUNGICIDAL PERFORMANCE:** At 3 ounces per one gallon use level or equivalent dilution (750 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 fungi on hard, non-porous surfaces:

*Trichophyton mentagrophytes* (ATCC 9533) (athlete's foot fungus) (a cause of Ringworm)  
*Aspergillus niger* (ATCC 6275)

**MOLD AND MILDEW PERFORMANCE:** Add 3 ounces per gallon of water to control the growth of mold and mildew (*Aspergillus niger*) and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Treated surfaces must remain wet for 10-minutes. Let air dry. Repeat application weekly or when growth or odor reappear.

**CLEANING AND DISINFECTION:** For heavily soiled areas, a precleaning step is required. For one step cleaning and disinfecting, use 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Apply use solution using a cloth, mop, or pressure sprayer as to thoroughly wet surface(s) to be disinfected/cleaned. For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes and then air dry. Prepare a fresh solution after each use. (Alternate statement: Prepare a fresh solution at least daily or when solution becomes visibly dirty or diluted.)

(OR)

### FOR USE AS A ONE-STEP CLEANER/DISINFECTANT:

1. Pre-clean heavily soiled areas.
2. Apply use solution (3 ounces per gallon) (750 ppm active quat) (or equivalent use dilution) to hard, non-porous environmental surfaces.
3. To disinfect, all surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces or let air dry.

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

**FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A:** For use in homes, hospitals, hotels, motels, and schools, the directions for hospital disinfection must be followed using a rate of 3 oz. per gallon of water. (OR) For use in animal housing facilities, follow the animal premise directions.

### DISINFECTION AND VIRUCIDAL DILUTION CHART

Ounces of Product	Amount of Water
¾ ounce	1 quart
1.5 ounces	½ Gallon
3.0 ounces	1 gallon
7½ ounces	2 ½ gallons
15.0 ounces	5 gallons
30.0 ounces	10 gallons

### HOSPITAL/HEALTH CARE

(Note for reviewer: For labels that list medical premises and metal and/or stainless steel surfaces, one of the following statements must be used.)

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This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product can be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

(Or)

This product is not for use on Medical device surfaces.

**HOSPITALS, DENTAL OFFICES, NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS** (For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard, non-porous surfaces): To disinfect hard, inanimate surfaces (such as walls, floors, table tops), add 3 oz. detergent/disinfectant (this product) per (to) gallon of water (750 ppm active quat) (or equivalent use dilution) (OR mix a 3oz. packet with one gallon of water). Apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow surfaces to remain wet for 10 minutes and then let air dry. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

At 3 ounces per gallon of water in the presence of 5% blood serum and 400 ppm of hard water (CaCO<sub>3</sub>) for a 2-minute contact time, this product was found to be effective against HIV-1 (AIDS Virus).

(OR)

At 3 ounces per gallon (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% blood serum, this product was proven to be effective against HIV-1 (AIDS Virus). Treated surfaces must remain wet for 2 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

**\*KILLS HIV 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).

**"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 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 and eye coverings. (Alternate statement: Clean up must always be done wearing protective latex gloves, gowns, masks and eye protection.)

**Cleaning Procedure:** Blood and other body fluids (containing HIV-1) must be thoroughly cleaned from surfaces and objects before application of this product.

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

**Contact Time:** Leave surface wet for 2 minutes with a solution of 3 ounces per gallon of water for HIV-1. This 2 minute contact time will not control other common type of viruses and bacteria listed on this label.

(OR)

For HIV, leave surfaces wet for two minutes with 3 ounces per gallon (or equivalent use dilution) use solution in the presence of 400 ppm hard water (CaCO<sub>3</sub> and 5% blood serum). This contact time will not control other common types of viruses and bacteria.

**SURGICAL INSTRUMENT PRESOAK:** Add 3 ounces of this product to gallon of water (or equivalent use dilution) (750 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.

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

**ULTRASONIC BATH DISINFECTANT DIRECTIONS:** Use this product to disinfect hard (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution of 3 ounces per gallon of water (or equivalent use dilution) (750 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visible dirty or discolored.

**FOR DISINFECTING HARD, NON-POROUS BATH AND THERAPY EQUIPMENT:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add 3 ounces of this product for each gallon of water (or equivalent use dilution) (750 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 3 ounces of this product for each gallon of (or equivalent use dilution) (750 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.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply 3 ounces per gallon of water (750 ppm active) (or equivalent use dilution) solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces must remain wet for ten (10) minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134).

#### **FOOD PROCESSING PREMISES**

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

**TO DISINFECT FOOD-PROCESSING AND TOBACCO PREMISES:** (floors, walls and storage areas) Add 3 ounces of this product per gallon of water (or equivalent use dilution) (750 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 surfaces 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:** (countertops, exterior surfaces of appliances, tables) Add 3 ounces of this product per gallon of water (or equivalent use dilution) (750 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 surfaces 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 gallon of water (or equivalent use dilution) (750 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 1 quart per 1000 cubic feet of room area with a solution containing 4.8 ounces of product to 1 gallon of water (1,200 ppm) (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution of 200 ppm active quaternary prior to use. ~~All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.~~

**Note:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

### ANIMAL PREMISES

**ANIMAL PREMISE VIRUCIDAL PERFORMANCE:** At 3 ounces per gallon use level (750 ppm active quat), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective on hard, non-porous environmental surfaces against the following viruses:

- Avian Influenza A (H3N2)
- Canine Adenovirus
- Canine Coronavirus
- Canine Distemper Virus
- Canine Parainfluenza Virus
- Feline Calicivirus
- Feline Infectious Peritonitis
- Feline leukemia
- Feline Panleukopenia

- Feline Picornavirus
- Feline Rhinotracheitis
- Infectious Canine Hepatitis Virus
- Murine Parainfluenza virus type 1
- Newcastle disease virus
- Pseudorabies virus
- Rabies virus
- Vaccinia virus

At 9 ounces per gallon use level, this product is found to be effective against the following viruses on hard, non-porous environmental surfaces in the presence of 5% serum with a 10-minute contact time:

- Canine Parvovirus (CPV)
- Minute virus of Mice (Parvovirus)
- Porcine Parvovirus

**EFFECTIVENESS AGAINST CANINE PARVOVIRUS (CPV), MINUTE VIRUS OF MICE (PARVOVIRUS) AND PORCINE PARVOVIRUS:** At 9 ounces per gallon of water or equivalent dilution this product was evaluated in the presence of 5% serum with a 10 minute contact time and found to be effective against Canine Parvo Virus (CPV), Minute virus of Mice (Parvovirus) and Porcine Parvovirus on hard, non-porous environmental surfaces. Prior to use, remove all animals, and their feeds from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other 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 surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings and other closed spaces. Do not house 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.

(OR)

**FOR CANINE PARVOVIRUS ACTIVITY:** This product is effective against Canine Parvovirus at 9 oz. per gallon. Follow "Veterinary Clinics/Animal Life Science Laboratory/Animal Care Facilities/Animal Research Centers/Animal Quarantine Areas/Zoos/Pet Shop/Kennels/Animal Breeding Facilities/Breeding and Grooming Establishments/Tack Shops Disinfection Directions".

At 3 ounces per gallon of water for a 10 minutes contact time, this product was found to be effective against Hantavirus.

(OR)

At 3 ounces per gallon (or equivalent use dilution) in the presence 5% organic load, this product was proven to be effective against Hantavirus with a contact time of 10 minutes.

### SPECIAL INSTRUCTIONS FOR CLEANING AND DISINFECTING AREAS WHICH MAY BE INFESTED WITH HANTAVIRUS

Infection with Hantavirus occurs by inhalation of infectious materials. CDC recommends that persons involved with cleanup wear coveralls, (disposable, if possible), rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air (HEPA) filter or a powered air-purifying respirator (PAPR) with HEPA filter.

All potential infective waste material (including respirator filter) from cleanup operations that cannot be burned or deep buried on site must be double bagged in appropriate

plastic bags. The bagged material must then be labeled as infectious (if it is to be transported) and disposed of in accordance with local requirements for infectious waste.

Rodent droppings and visible dust may be reservoirs for Hantavirus. If you are cleaning out a building that has been closed up, such as a cabin, shed or garage:

- a. Air out the building for at least 30 minutes by opening windows and doors.
- b. Leave the building while it is airing out.
- c. Do not vacuum, sweep or dust. This may spread the virus through the air.
- d. Thoroughly wet the contaminated areas with a solution of 3 ounces of product per gallon of water and allow to stand undisturbed for 10 minutes.
- e. Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
- f. Treat the surface again following the label directions and allow to stand undisturbed for 10 minutes.

**VETERINARY CLINICS/ANIMAL LIFE SCIENCE LABORATORY/ANIMAL CARE FACILITIES/ANIMAL RESEARCH CENTERS/ANIMAL QUARANTINE AREAS/ZOOS/PET SHOP/KENNELS/ANIMAL HUSBANDRY/ANIMAL BREEDING FACILITIES/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 traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 3 ounces per gallon of water (9 ounces for Canine Parvo Virus, Minute virus of Mice (Parvovirus) and Porcine Parvovirus) (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 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 that dispenses food or water with soap or detergent, and rinse with potable water before reuse.

**RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS**

Remove or cover all food and packaging materials. Remove all gross soils. Disinfect walls and floors in poultry and animal dressing plants with a solution of 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Scrub to loosen all soils. Surfaces must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect offal rooms, exterior walls and loading platforms of dressing plants.

**TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION:**

Animals frequently defecate on hot rocks and other hard non-porous 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. (Use on rocks not allowed in California.)

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal solution (3 ounces per

gallon of water or equivalent use dilution) (750 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. Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately.

**REPTILE TANK CLEANING AND DISINFECTION DIRECTIONS:** Remove all reptiles from the enclosure (tank) prior to cleaning and disinfecting. Remove all litter or droppings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply the disinfecting and virucidal solution (3 oz. per gallon of water) (or equivalent use dilution) to the surfaces of the enclosure (tank) until thoroughly wet. Allow surfaces to remain wet for 10 minutes. Wipe dry. Rinse all surfaces that come in contact with food with potable water before reuse. Allow the enclosure (tank) to ventilate for a minimum of 10-15 minutes before replacing the reptiles.

**Note:** Do not apply this product directly onto the reptile. If this product comes into contact with the reptile's skin, then immediately wash the material off of the animal with lukewarm water. If the reptile ingests this product, contact your veterinarian immediately.

**VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS:** Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles and other environmental surfaces may be required. Empty all troughs, racks, and other feeding and watering appliances. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with disinfecting or virucidal solution (3 oz. per gallon of water) and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

**FARM PREMISE DISINFECTION DIRECTIONS**

**FARM PREMISE DISINFECTION DIRECTIONS:** Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with disinfecting or virucidal solution (3 oz. per gallon of water) and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed

spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse. For effectiveness against Porcine Parvovirus, use this product at 9 ozs. per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*

*(OR)*

#### **FOR USE IN EQUINE, DAIRY AND HOG FARMS:**

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, 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 3 ounces of this product per gallon of water for a period of 10 minutes. For effectiveness against Porcine Parvovirus, use this product at 9 ounces per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*
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 IN THE TREATMENT OF ANIMAL HOUSING FACILITIES:**

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal solution (3 ounces per gallon of water or equivalent use dilution) (750 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. For effectiveness against Porcine Parvovirus, use this product at 9 ounces per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*
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.

**DISINFECTATION/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, cages, 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 3 ounces of this product per gallon of water (9 ounces for Canine Parvo Virus, Minute virus of Mice (Parvovirus)

and Porcine Parvovirus) (or equivalent use dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, leashes, chains 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, pens, 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.

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

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

**HATCHERIES:** Use 3 ounces of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard, non-porous surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more, rinse with potable water before reuse and allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray device. Use 3 ounces of this product per gallon of water. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**DISINFECTANT DIRECTIONS FOR CHICK VANS, EGG TRUCKS HATCHERY and FARM VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. Use the Virucidal rate to treat all vehicles (3 oz. per gallon of water) (or equivalent use dilution). Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. For sprayer applications, use a coarse spray device.

**DISINFECTANT/VIRUCIDAL\* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES OF AUTOMATED TRAY, RACK AND BUGGY WASHERS:** Mix a solution containing 3 oz. per gallon of water (or equivalent use dilution). Remove all litter and manure from surfaces to be treated. Treat hard non-porous, non-food contact surfaces of automated trays, racks and buggy washers into solution for 10 minutes. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty.

**DISINFECTANT/VIRUCIDAL\* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES IN EGG RECEIVING AND EGG HOLDING AREAS:** Mix a solution containing 3 oz. per gallon of water (or equivalent use dilution). Remove all litter and manure from surfaces to be treated. Saturate hard non-porous, non-food surfaces with the solution for a period of 10 minutes. Apply by mop, brush or sprayer. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty. *(Note to reviewer: Only one use dilution will be used in this section.)*

**MEAT PACKING PLANTS:** Use this product to disinfect hard, non-porous surfaces associated with the following sites: livestock vehicles and holding pens, perceiving areas and delivery chutes, slaughter areas and conveyors, hand, rub and guide rails,

post knock cabinets, stands and flooring surfaces, chains and moving process lines, surfaces of equipment for hide operations consisting of brine curing, hide transfer bin surfaces, chutes, conveyors, tallow and animal feed production hard, non-porous surfaces, processed products and offal equipment surfaces, fabrication and processing areas covering cold storage areas, all stainless steel cut out and prep tables, counter tops, conveyors, chains, tables, floors, walls and all stainless surfaces. For application, saturate all surfaces with solution and scrub to loosen all soils. Surfaces must remain wet for 10 minutes. Then thoroughly rinsed with potable water before operations are resumed.

All treated equipment that will contact animal feed or food surfaces must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

**HIDE/LEATHER PROCESSING PLANTS:** To use as a disinfectant/fungicide on hard, non-porous surfaces, add 3 ounces to gallon of water (750 ppm active quat) (or equivalent use dilution). The product can be used on hide storage bins, holding tanks, chill tanks, serpentine tanks and chains, machine and tannery equipment surfaces, conveyors and trolleys, hide press, grading and storage areas and scales, etc. Pre-clean all surfaces prior to use to remove gross soils. Thoroughly wet all hard, non-porous surfaces by evenly applying the use solution. Apply use solution with a cloth, mop, sponge, sprayer or by immersion, thoroughly wetting surfaces. For sprayer applications, use a coarse spray device at 6-8" from surfaces. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Wipe dry or allow to air dry.

**SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A:** Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with the disinfecting solution (3 oz per gallon of water) (750 ppm active quat) (or equivalent use dilution) for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

### RESTROOM/BATHROOM

#### NON-ACID TOILET BOWL (and URINAL) DISINFECTANT/CLEANER DIRECTIONS

Remove gross filth prior to disinfection.

**From Concentrate:** Add 3 ounces 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 and apply a 3 ounce per gallon or equivalent dilution 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.

### FUNGICIDAL/DEODORIZATION

**FUNGICIDAL PERFORMANCE:** At 3 ounces per gallon use-level, (or equivalent use dilution) (750 ppm active quat) this product is effective in locker rooms, dressing rooms, shower and bath areas and exercise facilities against *Trichophyton mentagrophytes* (athlete's foot fungus) (a cause of Ringworm on inanimate hard, non-porous surfaces in the presence of 5% blood serum. Treated surface must remain wet for 10 minutes. Allow to air dry.

**MOLD AND MILDEW CONTROL DIRECTIONS:** Add 3 ounces per gallon of water to control the growth of mold and mildew (*Aspergillus niger*) and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear.

**GENERAL DEODORIZATION:** To deodorize, add 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Excess material must be wiped up or allowed to air dry.

**FOR DEODORIZING GARBAGE CANS, GARBAGE TRUCKS, INDUSTRIAL WASTE RECEPTACLES AND GARBAGE HANDLING EQUIPMENT:** It is especially important to pre-clean for the product to perform properly. Then, apply a wetting concentration of 10 ounces of this product per gallon of water (or equivalent use dilution) (2,500 ppm quat active). Treated surfaces must remain wet for 10 minutes.

**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".

### OTHER

**ARTIFICIAL TURF SURFACES:** This product can be used as a disinfectant on indoor and outdoor artificial turf surfaces such as athletic game fields and practice fields (i.e. football, soccer, baseball, lacrosse, golf). Prepare a 1 oz of this product per gallon of water solution (700 ppm active quat) (or equivalent use dilution). Apply to turf surfaces with a portable tank sprayer or handheld pressure sprayer. Saturate turf surface with enough product to remain wet for at least 10 minutes. Do not use field for a minimum of 30 minutes or when surface has completely dried. One (1) gallon of diluted product will treat 400-600 sq ft of turf surface.

### DIRECTIONS FOR HOUSEHOLD USE

**KITCHEN/BATHROOM/HOUSEHOLD CLEANING:** Apply 3 oz per gallon of water (750 ppm active) (or equivalent use dilution) solution with a cloth, sponge, mop or directly on surface with a mechanical spray. If a mechanical spray is used spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Do not use on paint or acrylic plastics. Wipe the soiled area clean. This product is not to be used on dishware, glasses or eating utensils.

**DISINFECT/DEODORIZE:** To disinfect hard, non-porous surfaces such as floors, walls, counters, sinks, tubs, toilets, glazed tile, exterior surfaces of appliances, refrigerators or freezers, microwave exteriors, stove tops and hoods, tables, garbage pails, faucets apply 3 oz per gallon of water (750 ppm active) (or equivalent use dilution) with cloth, sponge, mop or mechanical spray. If a mechanical spray is used, spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Treated surface must remain wet for 10 minutes before wiping. For heavily soiled areas a pre-cleaning step is required. ~~The pre-clean step must be done according to the instructions under Restroom/Bathroom.~~ Rinse with potable water after use on surfaces that come in contact with food.

### DIRECTIONS FOR ALTERNATE CONTAINERS

#### BAG-IN BOX CONTAINERS

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

**Trigger sprayers:** Fill bottle from dispenser. Apply to surfaces according to directions above.

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

**PACKETS** (For pre-measured tear open packets)

(Simply) (Tear) open and pour contents into 1 gallon of water. Keep packets in box until ready to use.

**REFILLS**

**To Refill Concentrate From Large Containers Into Smaller Containers:** This product can be used to fill and refill clean, properly labeled containers for dilution elsewhere within your facility. Make sure the small container has been cleaned, dried and properly labeled according to state and local regulations. Also make sure other items (funnels or hand pumps) are properly cleaned and dried. To refill, simply pour (or pump product) from the larger container directly into the smaller one being careful not to spill any product. Keep both containers sealed when not in use.

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

MIX EACH PACKET WITH 1 GALLON OF WATER  
FOR HOSPITAL AND ANIMAL PREMISE DISINFECTION ONLY

**MAQUAT<sup>®</sup> MQ2525M-CPV**

E.P.A. Reg. No. 10324-140 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 3 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..... 1.60%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)  
dimethyl ethylbenzyl ammonium chloride ..... 1.60%

**INERT INGREDIENTS:** ..... 96.80%

**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"**

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Arlington Heights, IL 60005

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