

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1/23

10324-72

08-16-2007

AUG 16 2007

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

Subject: Maquat 615-HD
EPA Registration No.: 10324-72
Amendment Date: March 27, 2007
EPA Receipt Date: April 2, 2007

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
- Submission of Acute Toxicity Data
- Submission of Product Chemistry Data

Submitted Data

The cited efficacy studies performed on 10324-80 and 10324-81 may be used to support this product.

The submitted toxicity data has been reviewed with the following findings:

Study	MRID Number	Toxicity Category	Status
Acute Oral Toxicity	471032-01		Unacceptable
Acute Dermal Toxicity	470952-06	II	Acceptable
Acute Inhalation	Cite-all method		
Primary Eye Irritation	442622-02	I	Acceptable
Primary Skin Irritation	442622-01	I	Acceptable
Dermal Sensitization	470952-07		Unacceptable

CONCURRENCES

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DATE	8/16/07						

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The acute oral and dermal sensitization studies are unacceptable. Both studies may be upgraded with additional information. Please see the attached review for details. If the lab submits the requested additional information, the Agency will reconsider the status of these studies.

The submitted Product Chemistry data has been reviewed and found to be acceptable.

Since this product has been previously registered, this submission will rely on the acute toxicity data which was previously used to support this registration.

Conditions

Revise the label as follows:

- 1) Revise the Precautionary Statements on page one by deleting: "Harmful if absorbed through the skin." and revising to include: "...May be fatal if absorbed through the skin..."
- 2) Revise page two, the second section under "Organism Guide" to begin: "Disinfection in Hospitals, Dental Offices..." by deleting the term "General" as this is the Hospital Disinfection claim, not the General Disinfection claim.
- 3) Revise page three by deleting the following sites for which your product does not include adequate directions for use and for which the Agency has concerns as these surfaces are considered potential food contact surfaces: well houses, grain elevators, grain bins, silos, bins, tractors, combines, harvesting equipment, and wagons. Also delete tankers and tank trucks as the Agency has the same concerns.
- 4) Repeat the list of Animal Premise Virucidal Performance pathogens in the animal premise directions for use section on page sixteen.
- 5) Delete "Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers." from the current section on page three. This claim does not belong in this section of the label which lists sites. Place this information at the bottom of page three under: "This product may be used on washable hard non-porous surfaces such as".
- 6) Delete the "Note to Reviewer" on page four. We approve label language in association with headings on your label and as such statements may not be placed under other headings. (i.e. your claims under Household are not appropriate for placement in the Hospital section.)
- 7) Revise the statement on page four, left column which begins: "Controls the growth of odor-causing and slime forming..." to clearly indicate that this comment is referring to the treatment of waterbeds.

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- 8) Revise the claim in the right column of page four which begins: "Disinfects (and Sanitizes) kitchen surfaces (bathroom surfaces and floors). Sanitizes *non-food contact* kitchen surfaces..."
- 9) Revise the statement at the bottom of page five to read as follows: "...This product kills these *bacteria* and helps prevent the spread..."
- 10) Revise the statement on page five to read as follows: "This product is effective against household *bacteria* and odors (caused)..."
- 11) Revise the heading at the bottom of page six to read: "Disinfection/Virucidal Directions" deleting "fungicidal" as the directions for the use of this product against viruses indicate that the product is to be used at a different rate.
- 12) Revise the "Fungicidal against" section on page six such that it includes directions for use which indicate that the product must be used at 3/4 ounce per gallon in order to be effective against fungi.
- 13) Revise page seven, by correcting the "Dilution Guide" to read "Dilution Chart" using mandatory language as per PR Notice 2000-5.
- 14) Correct the ppm level in two instances on page eight. Correct the "Disinfection/Fungicide of Hard, Non-Porous surfaces in Whirlpool Units" as well as the "For Disinfection/Fungicidal use on Hard, Non-Porous (Fiberglass) Bath and Therapy Equipment" by correcting 850 ppm to read 1200 ppm.
- 15) Revise the Fungicidal/Deodorization section on page eight by correcting the "For Deodorizing Septic Storage Tanks" section to read: "When tanks are empty, pour 1/2 oz. per gallon of water (850 ppm) (or equivalent use dilution) into septic storage tank on *recreational vehicles*, campers and boats to control..." Mobile homes are not an appropriate site for this use since they are typically connected to a septic field or public sewer system.
- 16) Correct the rate and ppm level on page nine. Correct the "To Control the Growth of Mold and Mildew on Non-Porous Athletic Equipment" by correcting 1/2 ounce to read 3/4 ounce and 850 ppm to read 1200 ppm.
- 17) Correct the directions for "Disinfecting/Virucide Grooming Clippers" on page ten as follows. Revise the directions: "...*Remove* hair, dandruff and dust particles *prior to* disinfecting the blades."
- 18) Correct the direction for "Cleaning Hair Clippers and Electric Shears" on page ten by placing the statement: "Turn off clipper/shear." Immediately prior to the statement: "Allow surfaces to remain wet for at least 10 minutes."

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19) Revise the Restroom/Bathroom directions on page ten by correcting #3 in the "Disinfection and Cleaning Toilet Bowls and Urinals" section to read: "Apply a solution of 1/2 ounce of this product per gallon of water evenly onto surfaces..."

20) Revise the Restroom/Bathroom directions on page eleven by deleting #2 and correcting #3 in the "For Use as a Non-Acid Bowl Cleaner..." section to read: #3 "Add 1/2 ounces of product to the water in the toilet bowl."

21) Revise the directions for "Toilet Bowls/Urinals" on page eleven by indicating: "...Pour a solution of 1/2 ounce per gallon of water into the bowl. Swab the bowl..."

22) Delete the "Special Instructions for foam guns" on page eleven as you have not indicated that the foam gun should be set at a particular rate once the undiluted product has been added.

23) Correct the heading of the section which follows on page eleven to read: "RV Holding Tanks/Recreational Vehicles: For toilet waste and holding tanks..." by deleting mobile homes.

24) Revise the directions on page eleven "For use as a Cleaner/Disinfectant in Food Processing Plants" such that #6 begins as follows: "After disinfecting food contact surfaces used..."

25) Revise the direction "For Control of Drosophila spp..." and "For Control of Small Flies..." (page twelve) to indicate that the product is to be used at 1/2 ounces per gallon such that this label is in agreement with the indicated ppm.

26) Revise the Application section under Animal Premise on page twelve such that the statement: "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." immediately follows: "...solution for a period of 10 minutes."

27) Delete the following statements from the Hantavirus section of the label on page twelve. Your label does not include directions for use on laundry. Additionally, these statements are not in agreement with those which indicate that infective waste should be burned, deep buried or bagged as infectious waste. Delete: "If the coveralls are not disposable, they must...immersed in liquid disinfectant until they can be washed."

28) Under the "Veal, Calving, Hog, Cattle and Horse Operations" directions on page thirteen, delete the reference to "ventilation equipment" as this implies that this product may be used in HVAC&R systems. This type of use requires a risk assessment and separate, detailed directions for use.

29) Revise page fourteen section "Application and Use Dilution Poultry (and Swine) Premise" by deleting the last statement in this section which is repetitive. Delete the last sentence which begins: "Immerse all halters, ropes, and other types of equipment used in handling and restraining animals..."

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30) Revise page fourteen by deleting the last statement in the "Veterinary Practice (Clinics)/Animal Care..." directions which are not in agreement with the beginning of this section which indicates: "equipment not used for animal food..." Delete: "Thoroughly scrub all treated...rinse with potable water before reuse."

31) Revise the "Special Instructions for Inactivating Avian Influenza A" on page fifteen by adding the following statement to this section: "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."

32) Delete from page seventeen the heading: "Sanitizing Exterior Household Surfaces Directions" and the "Preparation of Sanitizer Use Solution" as well as the "Application" sections on this label. You have not indicated the surfaces which you expect to be treated using these methods. This information will assist the Agency in determining if your directions for use are appropriate.

33) Correct the section in the "Directions for Alternate Containers" on page seventeen. Revise to read: "Pour contents of 2 oz packet into 4 gallons of water..."

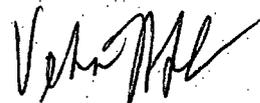
General Comments

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 D339362
7510P:T.Lantz:8/14/07:10324-72a

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MASON CHEMICAL COMPANY
 "The Quaternary Specialists"

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

E.P.A. Reg. No. 10324-72
 E.P.A. Est. No. 10324-IL-1

MAQUAT® 615-HD

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. If absorbed through the skin. Harmful if swallowed. Harmful if inhaled. Avoid breathing spray mist. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

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

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

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

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

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. 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).

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

Disinfectant, Cleaner, Mildewstat, Fungicide, Sanitizer (nonfood contact surfaces), Virucide*, Deodorizer for Hospitals, Nursing Homes, 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 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 ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	8.680%
INERT INGREDIENTS:	78.300%
TOTAL	100.000%

ACCEPTED
 COMMENTS
 in EPA Letter Dated:
 AUG 16 2007
 registered under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10324-72

**KEEP OUT OF REACH OF CHILDREN
 DANGER PELIGRO**
 See left panel for additional precautionary statements

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

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

IF INHALED: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

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

Transportation Information

DOT Hazard Class: 8 Corrosive

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

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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.
Organism Guide	2
Marketing Claims	3
Disinfection	
General	6
Hospital/Healthcare	7
Deodorization/Mold & Mildew	8
Barber/Salon	10
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Food Processing	11
Animal Premises	11
Other	15
Non-Food Contact Sanitization	
Food Processing	16
Animal Housing	16
Other	16

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.)

General Disinfection Performance Non-Medical (schools, restaurants, food services, beverage and food processing plants): This product is bactericidal according to the AOAC Use Dilution Test method effective against:

Escherichia coli (ATCC 11229)
Salmonella enterica (ATCC 10708)
Serratia marcescens (ATCC 43861)
Staphylococcus aureus (ATCC 6538)

Disinfection in Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions: This product is bactericidal according to the AOAC Use Dilution Test method on hard, inanimate surfaces, modified in the presence of 5% organic serum against:

Burkholderia cepacia
Campylobacter jejuni (ATCC 29428)
Corynebacterium ammoniagenes (ATCC 6871)
Enterobacter aerogenes (ATCC 13048)
Enterobacteriaceae (with extended beta-lactamase resistance)
Enterobacter cloacae
Enterococcus faecalis (ATCC 19433)
Enterococcus faecium (Vancomycin resistant)
Escherichia coli (ATCC 11229)
Escherichia coli (Antibiotic resistant)
Escherichia coli 0157:H7
Klebsiella pneumoniae (ATCC 13883)
Klebsiella pneumoniae (Antibiotic resistant)
Legionella pneumophila
Listeria monocytogenes (ATCC 98)
Proteus mirabilis
Proteus vulgaris
Pseudomonas aeruginosa (ATCC 15442)
Pseudomonas aeruginosa (Antibiotic resistant)

Salmonella enterica (ATCC 10708)
Salmonella typhi (ATCC 6539)
Serratia marcescens (ATCC 43861)
Shigella dysenteriae (ATCC 9361)
Shigella flexneri
Shigella sonnei
Staphylococcus aureus (ATCC 6538)
Staphylococcus aureus (Methicillin resistant) (ATCC 33591)
Staphylococcus epidermidis (antibiotic resistant)
Streptococcus pyogenes (ATCC 19615)
Salmonella schottmuelleri (ATCC 8759)
Vibrio cholerae
Xanthomonas axonopodis pv. *Citri* (Not for use in California)
Xanthomonas campestris pv. *Vesicatoria* (Not for use in California)

Fungicidal Activity: This product was evaluated and found to be an effective fungicide against the following:

Aspergillus niger
Candida albicans
Trichophyton mentagrophytes

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/Turkey/Wisconsin (ATCC VR798)
Hantavirus
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes Simplex Type2 (ATCC VR734)
Herpes Simplex Type1 (ATCC VR260)
HIV-1 (AIDS Virus)
Human Coronavirus
Influenza A/Brazil Virus
Respiratory syncytial virus
Vaccinia 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/Turkey/Wisconsin (ATCC VR798)
Canine Coronavirus
Canine Distemper virus
Infectious Bovine Rhinotracheitis (IBR) virus (ATCC VR188)
Newcastle disease virus ATCC VR109
Porcine Respiratory & Reproductive Virus (PRRSV)
Porcine Rotavirus
Pseudorabies virus (ATCC VR135)
Transmissible Gastroenteritis (TGE) virus

Non-Food Contact Sanitizing Performance: This product is an effective one-step non-food contact sanitizer against the following bacteria:

Enterobacter aerogenes (ATCC 13048)
Klebsiella pneumoniae (ATCC 4352)
Staphylococcus aureus (ATCC 6538)

MARKETING CLAIMS

Maquat® 615-HD for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, isolation wards, and medical research facilities, hospices.
- Patient care rooms & facilities, recovery rooms, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, carts, gurneys, stretchers, police cars.
- Day care centers and nurseries, sick rooms, kindergartens, and preschools.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities.
- Restaurants, restaurants and bars, bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza stores, liquor stores.
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households), condos, apartments, vacation cottages, summer homes.
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, fieldhouses.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, warehouses.
- Heath clubs, spas, tanning spas/beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.

- Recycling centers.
- Humidifier water tanks.
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants, canneries, caterers, bakeries.
- Processing facilities for Fish, Milk, Citrus, Fruit, Vegetable, Ice Cream, and Potatoes and beverage plants.
- Tobacco plant premises and equipment.
- Veterinary clinics, animal life science laboratories, animal research centers, animal quarantine areas, animal breeding facilities, kennels, dog/cat animal kennels breeding and grooming establishments, pet animal quarters, zoos, pet shops, tax shops and other animal care facilities.
- Farmhouses, barns, sheds, tool sheds, well houses, ~~garages, auto shops, shops, barns, cattle barns, swine barns, sheep barns, horse barns, brooder houses, and~~ ~~and~~
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers, seed houses.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, delivery trucks, boxcars, ~~and~~ ~~and~~ buses, trains, taxis, helicopters and airplanes.
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms and porches.
- Crypton barrier fabric

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

- Food preparation and storage areas.
- Counters (countertops), stoves (stovetops), sinks (bathroom, kitchen), tub surfaces, and non-food contact surfaces of Slurppy® machines and exterior surfaces of appliances, refrigerators, and ice machines.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo chrome and vinyl.
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery.
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of: air conditioning and refrigeration equipment and heat pumps.

- Large, inflatable, non-porous plastic and rubber structures: animals, promotional items, 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.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet seats, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, glazed porcelain, glazed tile and restroom fixtures.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, kennel/cages floors, conductive flooring.

~~(Note to reviewer: This section is divided as suggestions for ease of review by regulatory agencies and our customers. These statements are not required to be divided nor are the statements within the category limited to use within that suggested category.)~~

General

This product contains no phosphorous.

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

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

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

This product may be applied through low-pressure sprayers, and fogging (wet misting) systems.

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

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

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

Controls the growth of odor-causing and slime-forming bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals.

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

One-step cleaner.

Cleans and shines.

Antibacterial.

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

Household

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

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

Cleans everyday kitchen messes.

Cleans non-food contact kitchen surfaces and food preparation areas.

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

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

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

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

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

Hospitals

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.

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

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

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

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

Hospital use Disinfectant. Institutional Disinfectant (Sanitizer).

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 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.)

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

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

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

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

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

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

Restrooms

This product will not leave a grit or soap scum.

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

Kills Athlete's Foot fungus on bathroom surfaces.

Animal Premise

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. *(Hot rock, substrate, driftwood use sites not allowed in California)*

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

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

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

Food Contact Surfaces

This product is 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.

Escherichia coli (E. coli), Salmonella enterica (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.

Deodorizing

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 maximizes (improves) labor results by effectively controlling odors.

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

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

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

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.

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.

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

Other

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.

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

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

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

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

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will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.)

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

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

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

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

This product may be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, green house packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause: (Not for use in California.)

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

Floor cleaner.

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

Kill avian influenza A on pre-cleaned environmental surfaces.

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

DIRECTIONS FOR USE

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

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

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/VIRUCIDAL DIRECTIONS

PREPARATION OF USE SOLUTION: For water hardness up to 400 ppm add a ½ ounce per gallon (4 milliliters per liter) of water (1:256) (850 ppm active quat) (or equivalent use dilution) to disinfect hard, non-porous surfaces OR Mix a 2-ounce packet with 4 gallons of water. Treated surfaces must remain wet for 10 minutes.

This product is bactericidal according to the AOAC Use Dilution Test method on hard, inanimate surfaces, modified in the presence of 5% organic serum against:

Burkholderia cepacia
Campylobacter jejuni (ATCC 29428)
Corynebacterium ammoniagenes (ATCC 6871)
Enterobacter aerogenes (ATCC 13048)
Enterobacteriaceae (with extended beta-lactamase resistance)
Enterobacter cloacae
Enterococcus faecalis (ATCC 19433)
Enterococcus faecium (Vancomycin resistant)
Escherichia coli (ATCC 11229)
Escherichia coli (Antibiotic resistant)
Escherichia coli 0157:H7
Klebsiella pneumoniae (ATCC 13883)
Klebsiella pneumoniae (Antibiotic resistant)
Legionella pneumophila
Listeria monocytogenes (ATCC 98)
Proteus mirabilis
Proteus vulgaris
Pseudomonas aeruginosa (ATCC 15442)
Pseudomonas aeruginosa (Antibiotic resistant)
Salmonella enterica (ATCC 10708)
Salmonella schottmuelleri (ATCC 8759)
Salmonella typhi (ATCC 6539)
Serratia marcescens (ATCC 43861)
Shigella dysenteriae (ATCC 9361)
Shigella flexneri
Shigella sonnei
Staphylococcus aureus (ATCC 6538)
Staphylococcus aureus (Methicillin resistant) (ATCC 33591)
Staphylococcus epidermidis (antibiotic resistant)
Streptococcus pyogenes (ATCC 19615)
Vibrio cholerae
Xanthomonas axonopodis pv. *Citri* (Not for use in California)
Xanthomonas campestris pv. *Vesicatoria* (Not for use in California)

Fungicidal against:

Candida albicans
Trichophyton mentagrophytes

***Virucidal Performance:** At ½ ounce per gallon of water use level (850 ppm active quat) (or equivalent use dilution), 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:

Avian Influenza A/Turkey/Wisconsin (ATCC VR798)
Hantavirus
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes Simplex Type1 (ATCC VR260)
Herpes Simplex Type2 (ATCC VR734)
HIV-1 (AIDS Virus)

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Human Coronavirus
 Influenza A/Brazil Virus
 Respiratory syncytial virus
 Vaccinia virus

Dilution:

For Hospital or Medical Environment claims	½ oz/1 gal. water
For General Disinfection claims	½ oz/1 gal. water
For Virucidal claims	½ oz/1 gal. water
For Animal Virucidal claims	½ oz/1 gal. water
For Non-Food Contact Sanitizing claims	½ oz/5½ gal. water
For Fungicide claims	¾ oz/1 gal. water

Disinfection*/Virucidal Directions: 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.

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). (Use of "mist" is not allowed in California.)

For Schools, Industry and Non-Medical Institutional Uses: At ½ ounce per gallon of water (850 ppm active quat) (or equivalent use dilution), this product delivers cleaning and germicidal effectiveness. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. 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. It is effective against Staphylococcus aureus, Salmonella enterica, Escherichia coli and Serratia marcescens. The same AOAC tests used to confirm performance for hospitals were used.

For Disinfecting Hard, Non-Porous Surfaces Against Avian Influenza: For hospital/medical/health facilities, the directions for use for hospital disinfection must be followed. For all other use sites, general Disinfection*/Virucidal directions must be followed.

Hospital/General Disinfection and *Virucidal Use Dilution Chart

Ounces of Product	Amount of Water
0.125 ounces	1 quart
¼ ounce	½ Gallon
½ ounce	1 gallon
1¼ ounces	2 ½ gallons
2½ ounces	5 gallons
5.0 ounces	10 gallons

Fungicidal Use Dilution Chart

Ounces of Product	Amount of Water
3/8 ounce	½ Gallon
¾ ounce	1 gallon
1½ ounces	2 gallons
3¾ ounces	5 gallons
7½ 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.)

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

Or

This product is not for use on Medical device surfaces.

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

At ½ ounce per gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 400 ppm hard water (CaCO₃) 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 gallon (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO₃) 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, HCV and HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

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

Personal Protection: Clean up must always be done wearing protective latex gloves, gowns, masks and eye protection. (Alternate statement: 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.) (Please note the alternate statement has been previously approved on this label.)

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

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

Contact Time: For HIV, leave surfaces wet for ten minutes with ½ ounce per gallon (4 milliliters per liter) (or equivalent use dilution) (850 ppm active quat) use solution in the presence of 400 ppm hard water (CaCO₃ and 100% serum). For HBV, leave surfaces wet for 10 minutes with ½ ounce per gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 400 ppm hard water (CaCO₃ and 100% serum). For HCV, leave surfaces wet for 10 minutes with ½ ounce per gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 400 ppm hard water and 5% organic load.

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

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.

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

Ultrasonic Bath Disinfectant Directions: Use this product to disinfect hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution of ½ ounce of this product per gallon of water (1:256) (or equivalent use dilution) (850 ppm active quat) directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufactures' (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.

Ultrasonic Bath Disinfectant/Fungicide Directions: Use this product to disinfect hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution of ¾ ounce of this product per gallon of water (or equivalent use dilution) directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufactures' (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 (or equivalent use dilution) (850 ppm active quat) 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.

Disinfection/Fungicide 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 ¾ ounce of this product for each gallon of fresh water added (or equivalent use dilution) (850 ppm active quat). 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 unit, drain the water and refill with fresh water to just cover the intake valve. Add 2½ ounces of this product for each 5 gallons of water (½ ounce per one gallon) (850 ppm active quat) (or equivalent use dilution) 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.

For Disinfection/Fungicidal use on Hard, Non-porous (Fiberglass) Bath and Therapy Equipment: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add ¾ ounces of this product for each gallon of water (or equivalent use dilution) (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.

FUNGICIDAL/DEODORIZATION

Fungicidal against: At ¾ ounces per gallon use-level, (or equivalent use dilution) (1,200 ppm active quat) this product is effective against:

Candida albicans
Trichophyton mentagrophytes

Fungicidal Activity: At ¾ ounces per gallon use-level, (or equivalent use dilution) (1,200 ppm active quat) this product is effective against *Trichophyton mentagrophytes* (the fungus which causes athlete's foot) (a cause of Ringworm) and *Candida albicans* when used in areas, such as locker rooms, dressing rooms, shower and bath areas, and exercise facilities on inanimate, hard, non-porous surfaces in the presence of 5% blood serum and 400 ppm water hardness as CaCO₃. Treated surface must remain wet for 10 minutes. Allow to air dry.

Mold and Mildew Control Directions: Add ¾ ounce per gallon of water (or equivalent use dilution) 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 ½ ounce of this product to 1 gallon of water (or equivalent use dilution) (850 ppm active quat). Excess liquid must be wiped up or allowed to air dry.

Cleaning/Deodorizing Directions: Add ¼ to 1 ounce per gallon (2-8 milliliters per liter) (or equivalent use dilution) 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. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray. 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 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) (2,500 ppm quat active).

Glass Cleaning/Deodorizing Directions: Use ½ ounce per gallon solution (850 ppm active quat) (or equivalent use dilution) to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

For Deodorizing Septic Storage Tanks: When tanks are empty, pour ½ oz. per gallon of water (850 ppm active quat) (or equivalent use dilution) into septic storage tank on ~~mobile~~ campers and boats to control the bacteria that can cause odors. As tank fills with sewage and the vehicle is moving, this disinfectant solution will mix and provide

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an adequate deodorizing solution for this use. This product is to be used on gray and black water tanks only. Check with local, state, or federal authorities before disposing of sewage in accordance to federal, state and local regulations for waste disposal.

Air Freshener/Automotive Uses: ½ oz. per gallon of water (850 ppm active quat) (or equivalent use dilution) will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets, bathrooms and A/C filters. Effective on smoking and cooking odors (garlic, fish, onions, etc.), automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from tobacco, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Allow to air dry.

For Odors Caused by Dogs, Cats and Other Domestic Animals: Use on rugs, floors, walls, tile, cages, crates, mats, litter boxes, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "General Deodorization".

To control the growth of mold and mildew on large inflatable non-porous plastic and rubber structures (animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of ¼ ounce per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

To Control the Growth of Mold and Mildew on Non-Porous Athletic Equipment (wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1 ounce per gallon (850 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

Humidifier Directions: Formulated for use in portable humidifiers. Thoroughly clean water tank and filters (before each heating season, or sooner if necessary). Add ½ ounce of this product per 5.5 gallons of refill water. When you refill the tank, add ½ ounce of this product for every 5.5 gallons of water added.

OR

Humidifier Bacteria/Algae Treatment: Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. For every 5.5 gallons of water in the humidifier tank add ½ ounce of this product. When you refill the tank, add ½ ounce of this product for every 5.5 gallons of water added.

Not for use in heat or atomizing type humidifiers.

WATER/SMOKE DAMAGE RESTORATION (Not for use in California.)

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

Sewer backup & river flooding: During mitigation procedures, dilute ½ to 1 ounce of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable

materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

Carpets, carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling: For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute ½ to 1 ounce of the product per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

Special Instructions for Cleaning Carpet Against Odor Causing Bacteria: This product may be used in industrial and institutional areas such as homes, motel & hotel chains, nursing homes, schools and hospital(s). For use on wet, cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness.

For portable extraction units: Mix ½ ounce of this product per gallon of water (850 ppm active quat) (or equivalent use dilution).

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

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

(Use as carpet sanitizer not allowed in California.)

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

Vacuum carpet thoroughly prior to application. Mix a ½ ounce of product per gallon of water (850 ppm active quat) (or equivalent use dilution). Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 1 ounce per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

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

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

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

Smoke Damage Restoration (Not for use in California.): Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on (the following) porous and semi-porous materials: carpets, carpet

cushion, sub floors, drywall, trim and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

BARBER/SALON

For Use To Clean and Disinfect Barber and Beauty/Manicure Instruments and Tools:

1. Pre-clean heavily soiled items.
2. Completely immerse pre-cleaned combs, scissors, clipper blades, razors, manicure implements and other non-porous instruments in ½ ounce per gallon of water solution (850 ppm active) (or equivalent use dilution) so that surfaces remain wet for ten (10) minutes.
3. Rinse surfaces thoroughly and let air dry before reuse.
4. Change solution at least daily or sooner if visibly dirty.

(OR)

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, and scissors) in a ½ 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. Prepare fresh solution at least daily or more often if solution becomes cloudy or soiled.

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

Disinfection/Virucide/Fungicide 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, and scissors) in a ¾ ounce per gallon solution (or equivalent use dilution) (1200 ppm active quat) of the product. Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare fresh solution at least daily or more often if solution becomes cloudy or soiled.

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

Disinfecting/Virucide Grooming Clippers: Turn the clipper off occasionally during use and spray between the teeth of blades a solution of ½ ounce per gallon (or equivalent use dilution) (850 ppm active quat). Allow surface to remain wet for at least 10 minutes. Remove hair, dandruff and dust particles while disinfecting the blades.

Cleaning Hair Clippers and Electric Shears: While clipper/shear is running, hold in the downward position and spray ½ ounce per gallon of water solution (or equivalent use dilution) (850 ppm active quat) of this product directly onto the blades two or three times to thoroughly wet the blades. Do not spray on the clipper case or drip into clipper housing. Allow surface to remain wet for at least 10 minutes. Wipe dry with a clean soft cloth. Lubricate as per clipper/shear manufacturer's instructions.

Cleaning Barber/Salon Shears and Other Implements: Spray shear/implement until thoroughly wet. Wipe away visible debris using a soft bristle brush or cloth. Immerse pre-cleaned shear/implement into a container of ½ ounce per gallon of water solution (or equivalent use dilution) (850 ppm active quat) of this product for at least 10 minutes.

Remove shear/implement and wipe dry. No rinsing is necessary. Use fresh solution at least daily or when immersion tank (bowl) (sink) solution becomes diluted or visibly soiled.

Disinfection/Virucide* 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.

Disinfection/Fungicide/Virucide* of Hard, Non-Porous Surfaces in Footbaths: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of ¾ oz per gallon of water (or equivalent use dilution) (1200 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.

RESTROOM/BATHROOM

PUBLIC RESTROOMS

This product is a one-step cleaner and deodorant (odor counteractant) (odor-neutralizer) designed for general cleaning, (and) disinfecting, (deodorizing) (and) controlling mold and mildew) on hard, non-porous environmental surfaces.

This product cleans, disinfects and deodorizes surfaces by killing odor causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use on (restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms, and locker rooms.

Disinfection and Cleaning Toilet Bowls and Urinals:

1. With a swab mop applicator, remove water from bowl by forcing out trap. Preliminary cleaning is required for heavily soiled surfaces.
2. Press swab mop against side of bowl to remove excess water from applicator.
3. Apply product evenly onto surface to be cleaned and disinfected.
4. Swab entire surface area especially under the rim where outlets are located.
5. Allow this product to remain wet on surfaces at least 10 minutes.
6. Flush toilet and rinse applicator thoroughly.

(OR)

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

Remove gross filth prior to disinfection.

From Concentrate: Add ½ ounces (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 a ½ ounce per gallon (4 milliliters per liter) (or equivalent use dilution) (850 ppm active quat) use solution to

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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.

(Or use alternate Use directions)

For Use as a Non-Acid Bowl Cleaner/Disinfectant in Toilet Bowls from Concentrate:

1. Pre-clean heavily soiled areas.
2. Remove water from toilet bowl.
3. Add ½ ounces of product into toilet bowl.
4. Swab entire surface area especially under the rim.
5. Allow entire surface to remain wet for ten (10) minutes.
6. Flush toilet and rinse swab applicator thoroughly.

(Or use alternate Use directions)

Toilet Bowls/Urinals: Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting. Clean by applying undiluted solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first pre-clean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in ½ oz. of product. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush.

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 application, use a coarse spray device.

For Use To Clean and Disinfect Shower Rooms, Locker Rooms and Other Large Open Areas with Floor Drains:

1. Pre-clean heavily soiled areas.
2. Apply Use Solution of ½ ounce per gallon of water (850 ppm quat active) to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for 10 minutes.

Special instructions for foam guns: Pour undiluted solution into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. (Note: See foam gun instructions for more information. Once in place, squeeze the handle to disperse foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes. (Foam gun not for use in California.)

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

Mobile Home/RV Holding Tanks/Recreational Vehicles : For toilet waste and holding tanks, cover bottom of holding tank with water and ½ ounce per gallon of water (850 ppm active quat) (or equivalent use dilution) to deodorize. If odors return before time to empty, add ½ ounce to the tank. For kitchen waste, add ½ ounce to gray water tank as needed to control malodors created by dirty dishwater.

FOOD PROCESSING PREMISES

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.

OR

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.

Directions for Food Processing Plants: For use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Follow Disinfection directions.

Directions for Food Storage Areas: For use on non-food contact surfaces such as shelves, floors, walls and tables. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Then follow Disinfection directions.

For Use as a Cleaner/Disinfectant in Food Processing Plants:

1. Before using this product in food processing areas, food products and packaging materials must be removed from the room or carefully protected.
2. Apply ½ oz per gallon of water (850 ppm active quat) (or equivalent use dilution) solution evenly over surface using a cloth, mop, sponge or coarse spray device. Be sure to wet all surfaces thoroughly. Do not breathe spray.
3. Allow product to remain on surface for ten (10) minutes.
4. Wipe with clean cloth, sponge or paper towel.
5. For heavily soiled areas, thoroughly clean surface prior to disinfecting.
6. When disinfecting food contact surfaces used for food preparation, rinse surfaces thoroughly with potable water. This product must not be used to clean the following surfaces: utensils, glassware and dishes.

To Disinfect Food-Processing and Tobacco Premises: Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, add ½ ounce of this product to 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. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To Disinfect Food Service Establishment Food Contact Surfaces: (For) countertops, appliances, and tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. Add ½ ounce of this product to 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. Allow to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. For sprayer applications use a coarse spray (device). This product is not for use on dishes, glassware or eating utensils. After use, all surfaces in the area must be thoroughly rinsed with potable water.

For use on non-food contact surfaces as a general disinfectant in the brewery industry: Use ½ ounce of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Follow the general disinfectant directions above.

Directions for Fogging: (For use in) dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cubic feet of room area with a product solution containing ¾ ounce product to 1 gallon of water (or equivalent use dilution) (1,200 ppm). Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be 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

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building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

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

For Control of the Drosophila spp. and Phoridae Family of Flies on Non-Food Contact Surfaces: To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of 0.5 ounces of this product per ~~one~~ gallons 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 0.5 ounces per ~~one~~ gallons 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.

ANIMAL PREMISES

Animal 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:

- Avian influenza A/Turkey/Wisconsin
- Canine Coronavirus
- Canine Distemper
- Infectious Bovine Rhinotracheitis virus (IBR)
- Newcastle disease virus
- Porcine Respiratory & Reproductive Virus (PRRSV)
- Porcine Rotavirus
- Pseudorabies virus
- Transmissible Gastroenteritis (TGE)

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.

Application: Remove all animals and feeds from premises, vehicles (trucks, cars), and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all

troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with recommended disinfecting or Virucidal solution for a period of 10 minutes. Ventilate buildings, coops 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, 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. 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.

At ½ ounce per gallon (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO₃) and 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. Disinfect Personal Protective gear upon removal at the end of the day. If the ~~coveralls are~~ ~~disposable, they must be~~ ~~disposed of in accordance with local requirements for~~ ~~infectious waste.~~

All potential infective waster 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 waster.

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 the product 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.

Disinfection/Virucide of Poultry/Turkey Equipment, Swine Quarters, Livestock Farms, Equine Quarters, Animal Quarters and Kennels Directions: Remove all animals and feeds from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 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

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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.

Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Livestock Farms, Equine Quarters, Animal Quarters and Kennels: Prior to disinfection, remove all poultry, other animals and their feed from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use ¾ ounce of this product per gallon of water (or equivalent use dilution) (1200 ppm active quat). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

After disinfection, ventilate buildings, coops and other closed spaces. Do not house poultry or other animals or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

HATCHERIES: Use ½ ounce of this product per gallon of water (or equivalent use dilution) (850 ppm active quat) to treat the following hard, non-porous surfaces: hatching, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, trash containers, 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 (or equivalent use dilution) (850 ppm active quat) 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.

DRESSING AND RENDERING PLANT USE (RENDERING PLANT/DRESSING PLANT DISINFECTANT 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 (or equivalent use dilution) (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.

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 ¼

ounce 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. Rinse all surfaces which contact food with potable water before reuse.

VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS: Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles, ~~_____~~ and other environmental surfaces may be required. Empty all troughs, racks, and other feeding and watering appliances. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with recommended disinfecting or Virucidal solution 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, fountain: and waterers with soap or detergent and rinse with potable water before reuse.

FARM PREMISE USE: 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 transversed 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 (850 ppm active quat) (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, stables, chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting/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, scrappers 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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For Use in Livestock, Poultry and Turkey Houses:

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 recommended disinfecting or Virucidal solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

For Use For Treatment of Animal Housing Facilities:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (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.

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 (AND SWINE) PREMISE SANITATION

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.

Application and Use Dilution Poultry (and Swine) Premise: Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities 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. 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. Ventilate buildings, coops 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, 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. Immerse all halters, ropes, and other types of equipment used for handling and restraining animals as well as forks, shovels, and scrapers used for removing litter and manure.

Veterinary Practice (Clinics)/Animal Care Facilities/Animal Laboratory/Animal Life Science Laboratory/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 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 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 a ½ ounce of this product per gallon of water (850 ppm active quat) (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 may contact food or water with soap or detergent, and rinse with potable water before reuse.

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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 recommended disinfecting solution (½ oz per gallon of water) (850 ppm active quat) (equivalent use dilution) for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

OTHER

For Use on Finished Floors: To limit gloss reduction, use this product at ½ oz per gallon of water use dilution (850 ppm active) (or equivalent use dilution). Apply with a damp mop or auto scrubber. Allow to air dry.

For Use as a One-Step Cleaner/Disinfectant:

1. Pre-clean heavily soiled areas.
2. Apply ½ ounce per gallon solution (850 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 (and let air dry).

Note: Rinsing is not necessary unless floors are to be coated with finish or restorer. 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.

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, and to remove and reduce surface contamination, apply ½ ounce of this product to 1 gallon of water (850 ppm active) to the surfaces and body openings, natural or artificial. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Allow a 10 minute contact time for optimal results. Prepare a fresh solution for application of each remains.

CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS): Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply ½ ounce per gallon of water (850 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).

COMMERCIAL FLORIST USE DIRECTIONS: To clean, disinfect and deodorize hard, non-porous surfaces in one step, prepare Use solution by adding (mixing) ½ ounce per gallon of water (1:256) (850 ppm active) (or equivalent use dilution). 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, (and) rub with brush, sponge or cloth. Do not breathe spray (mist). (Use of "mist" is not allowed in California.)

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

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

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

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

Dosage: To control growth of odor-causing and slime-forming bacteria, add 0.8 ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 1.6 ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

Citrus Canker Control and Control of Bacteria Spot of Tomatoes (Not Applicable in California): For prevention of Citrus Canker and Bacterial Spot of Tomatoes Diseases through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker) and *Xanthomonas campestris* pv. *vesicatoria* (bacteria spot of tomatoes) 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. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing must be either thoroughly rinsed or laundered before reuse. Footwear must be rinsed before reuse.

DIRECTIONS FOR HOUSEHOLD USE

Kitchen/Bathroom/Household Cleaning: Apply ½ oz per gallon of water (850 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 ½ oz per gallon of water (850 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 should be done according to the instructions under Kitchen/Bathroom/Household Cleaning. Rinse with potable water after use on surfaces that come in contact with food.

SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS

Preparation of Sanitizer Use Solution: Add ½ ounce per 5½ gallons of water to sanitize hard, non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds. Allow to air dry.

Enterobacter aerogenes ATCC 13048

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Staphylococcus aureus ATCC 6538
Klebsiella pneumoniae ATCC 4352

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. (*Use of "mist" is not allowed in California.*)

FOOD PROCESSING

SHOE (BOOT) BATH SANITIZER DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a ½ ounce of this product per 2 gallons. (2 milliliters per 2 liters) (or equivalent use dilution) of water solution for 60 seconds prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

SHOE FOAM DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of ¾ to 1.25 ounces per 2 gallons of water (or equivalent use dilution) (781 to 1172 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacture of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 60 seconds prior to entering area. Foam area must be washed and replaced at least daily or when it appears dirty.

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

ENTRYWAY SANITIZING SYSTEMS: To prevent cross contamination from area to area, set the system to deliver (0.58 – 1.18 oz. per 2.5 gallons of water) (400 – 800 ppm active) of sanitizing solution. The (spray) (foam) must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

FOOD PROCESSING PLANTS USING FOGGING DEVICES

Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing ¾ ounce of product to 1 gallon of water (1,200 ppm). Vacate the area of all personnel for a minimum of 2 hours after fogging. Use for a minimum of 4 air exchanges (ACH) per hour in the facility. 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.

ANIMAL PREMISES

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 5.5 gallons 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.

SANITIZING HATCHERY ROOMS USING FOGGING DEVICES: Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix one part this product to five parts water (½ gallon this product to 2½ gallons water). Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed, ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES: Mix 6 ounces of this product to 122 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breath this fog. It is acceptable to fog setters and hatchers with a ½ ounce per gallon solution of this product (or equivalent use dilution) on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs.

OTHER

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 a ½ ounce per 5.5 gallons (or equivalent use dilution) (150 ppm active) of water for at least 60 seconds. Rinse thoroughly and dry before use. Fresh solution must be prepared at least daily or more often if solution becomes cloudy or soiled.

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

Dairy Cow Application Directions: The udders, flanks and teats of dairy cows can be washed with a solution of a ½ oz of this product in 1 gallon of warm water. Use a fresh towel for each cow. Avoid contamination of wash solution by dirt and soil. Do not dip used towel back into wash solution. When solution becomes visibly dirty, discard and provide fresh solution.

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For Sanitizing Hard, Non-porous Whirlpool Units: 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 1 ounce of this product for each 11 gallons (½ ounce per 5.5 gallons) of water (or equivalent use dilution) (150 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. 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.

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 5.5 gallons of water (or equivalent use dilution) (150 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.

~~**SANITIZING HOSPITAL HOUSEHOLD SURFACES DIRECTIONS**~~
Preparation of Sanitizer Use Solution: Add ½ ounce per gallon of water (800 ppm active) (or equivalent use dilution) to sanitize hard non-porous exterior surfaces.

~~**Application:** Apply solution with mop, cloth sponge, hand pump trigger sprayer, or with a low-pressure (less than 60 psi) airless sprayer so as to wet all surfaces thoroughly. Treated surfaces must remain wet for 5 minutes. Wearing suitable respiratory protective equipment to control exposure to spray (mist), pressure wash surfaces to thoroughly clean all treated areas using a high-pressure spray. Do not breathe spray (mist). (Use of "mist" is not allowed in California.)~~

MUSHROOM FARM INDUSTRY USE DIRECTIONS

At ½ ounce per gallon use-level, this product is effective against:

Dactylium dendroides ATCC 6676

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

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

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

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

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.

OR

Pour contents of 1 packet into 4 gallons of water. Keep packets in box until ready to use.

REFILLS

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

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

FOR DISINFECTION: MIX EACH PACKET WITH
4 GALLONS OF WATER

MAQUAT[®] 615-HD

E.P.A. Reg. No. 10324-72 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 2.0 FLUID OZ.

ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride6.510%
Didecyl Dimethyl Ammonium Chloride3.255%
Dioctyl Dimethyl Ammonium Chloride3.255%
Alkyl (C₁₄, 50%; C₁₂, 40%; C₁₆, 10%)
dimethyl benzyl ammonium chloride8.680%

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.

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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