

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

10324-93

12-5-2007

1/24

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

DEC 5 2007

Subject: Maquat 64 PD
EPA Registration No.: 10324-93
Amendment Date: July 16, 2007
EPA Receipt Date: July 20, 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 Toxicological Data
- Submission of Chemistry Data

Acceptable Data

Efficacy Data

The following data has been reviewed and may be used to support this product.

Data Requirement	Means of Support	Status
Virucidal Efficacy of a Disinfectant: Avian Influenza A (H5N1) virus	Submitted study, MRID 471861-06	Acceptable, 703 ppm active in 5% soil for 10 minutes

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Toxicity Data

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

Study	MRID Number	Toxicity Category	Status
Acute Oral Toxicity	471861-02		Unacceptable
Acute Dermal Toxicity	471861-01	III	Acceptable
Acute Inhalation	None	Unknown	"cite-all option"
Primary Eye Irritation	Waiver Request	I	Acceptable
Primary Skin Irritation	471861-05	III	Acceptable
Dermal Sensitization	471861-03		Unacceptable

The submitted acute oral toxicity study is unacceptable. The data is not sufficient to place the LD50 for the females in an acute Toxicity Category. Given the results obtained, at least one additional dose level was needed in the females.

The submitted skin sensitization study is unacceptable but potentially upgradable:

1. No erythema reactions were reported for the induction phase of the main study. Graded reactions should be reported for each animal, in order to confirm the adequacy of the induction concentration. (The reported results of the Irritation Screen provide additional but insufficient information.)
2. No erythema reactions were reported for the naïve control group in the positive control study.

Conditions

Revise the label as follows:

- 1) Since the Acute Oral data requirement is currently not supported by a specific study, revise the Precautionary Statements to read as previously: "Harmful if *swallowed* or absorbed through the skin."
- 2) Revise the Precautionary Statements to include the following expanded "Wash thoroughly..." statement as per the Label Review Manual. Revise to include: "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco,"
- 3) Delete the reference to "Sanitizing Ice Machines" on page one as this label does not include directions for this use.

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4) Delete "Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers." from page three. This claim does not belong in this section of the label which lists sites. Place this information on page three under: "This product may be used on washable hard, non-porous surfaces such as:"

5) Revise the claim on page three, right column which begins: "Hospital beds, bed railings, bedpans..." to end as follows: "...oxygen hoods, dental chairs/countertops." by deleting "instruments/implements OR surfaces." Treatment of dental instruments is regulated by the FDA and thus such claims are not to be included on an EPA label.

6) Delete the following statement from page four as these surfaces have already been included on page three. Delete: "Bed railings, bedpans, cervical collars, CPR training mannequins, curing lights, neck braces, oxygen hoods, slit lamps, spine backboards, stretchers and unit stools.

7) On page four, left column, delete the marketing statement and list of treated articles. Your label does not include directions for the treatment of these surfaces.

"This product is effective against odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew) and algae on the following:

- Air filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems
- Air filters/materials
- Buffer pads (abrasives and polishing)
- Cellulose sponges
- Fire hose fabric
- Humidifier belts
- Tents, tarpaulins, sails, ropes"

8) Revise the section on page five, right column which begins: This product has been designed for veterinarians..." ending "it will disinfect metal clippers as well as many other hard, non-porous surfaces." Delete the references in this section to: "and providing protection against rust". This type of claim requires supporting data since products with these active ingredients are known to be corrosive to metal surfaces.

9) Revise this same section by deleting "germ free." Revise the statement to read "Regular use will help to maintain blades that operate with reduced friction and with smoother clipping action." It is false and misleading to state that this product will make a surfaces germ free. The claim implies that all germs will be killed which is not the case. The product has only proven efficacy against those public health organisms for which data has been provided.

10) Delete the following statement from page six, right column: "A potable water rinse is required following use of the product as a sanitizer on previously cleaned hard food contact surfaces." This statement appears in a section describing the use of the product in federally inspected meat and poultry processing plants. Your directions for use include disinfection and non food contact sanitizing at this site. Thus the reference to the use of this product on food contact surfaces must be deleted.

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11) Delete the claim for effectiveness against *Feline Calicivirus* from the Virucidal Performance section on pages six and seven. This section describes the use of this product at 2 ounces per gallon. Your product is effective against *Feline Calicivirus* at 2.5 ounces per gallon.

12) Revise the "For Disinfecting Hard, Non-Porous Surfaces Against Avian Influenza A" on page seven by adding the following statement to this section: "For use in *homes, hospitals, hotels, motels, schools* the directions for hospital disinfection must be followed...water. *For use in animal housing facilities follow the animal premise directions.*"

13) Revise "For Disinfection and to Control the Growth of Mold and mildew on Non-Porous Athletic Equipment" heading on page eight to be in agreement with other Mason labels as follows: "To Control the Growth of Mold and mildew on Non-Porous Athletic Equipment"

14) Revise the surgical instrument presoak section on page eight by correcting the Note to read: "...*Metal* instruments must be removed after 10 minutes..."

15) Delete the reference to "Foot Spas" in the "Disinfection of Hard Non-Porous Surfaces of Whirlpool (Foot Spa) Units" on page eight. Separate directions for use are required for "Foot Spas."

16) Revise the Deodorization/Mold & Mildew section on page eight by correcting the "For Deodorizing Septic Storage Tanks" section. Delete the reference to disinfection in this section as these directions are for deodorization of septic storage tanks.

17) Correct the directions for "Disinfecting/Virucide Grooming Clippers" on page nine 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 nine by placing the statement: "Turn off clipper/shear." Immediately prior to the statement: "Allow surfaces to remain wet for at least 10 minutes."

19) A number of corrections are required in the bathroom section on page eleven. Make the following revisions:

A. **To Clean and Disinfect:** Delete the statement: "Flush toilet and use toilet mop to push water from the bowl over the trap." Also add the statement: "*A preliminary cleaning is required for the removal of heavy soil prior to disinfection.*"

B. **To Disinfect Toilet Bowls:** Delete the statement: "Remove water from the bowl."

C. **To Disinfectant Toilet Bowls:** Delete: "use toilet (bowl) mop to push water from the bowl over the trap." Revise to state: "*To disinfect, squirt two ounces of this product under the rim and around sides. Scrub bowl with mop. Allow solution...*"

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D. **To Disinfect Toilet Bowls** (third section): Delete the second statement: "With swab applicator...water over the trap."

E. **Toilet Bowl (And Urinal) Disinfection/Cleaner Directions**: Revise the second statement to read: "Empty bowl or urinal and apply solution of 2 ounces of this product per 128 ounces of water to exposed surfaces including..."

F. **To Clean and Disinfect Urinals**: Revise the third statement to read: "Then squirt a solution of 2 ounces of this product per 128 ounces of water around the edges..."

G. **To Disinfect Urinal**: Revise statement #2 to read: "Apply solution of 2 ounce of this product per 128 ounces of water directly to the urinal..." Revise #3 to indicate: "Then pour additional solution on applicator."

20) Revise the "Directions for Fogging For Use in Dairies, Beverage and Food Processing Plants" on page eleven by deleting the reference to the use of this product as a food contact sanitizer. This product is not approved for use as a food contact sanitizer. Thus revise to state: "...All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution of 200 ppm active quaternary prior to use." deleting: "(2 ounces per 3 1/2 gallons of this product)".

21) Make the following two revisions to page twelve. Revise the "Dressing Plant Use" and "Rendering Plant/Dressing Plant Disinfectant..." sections by placing "Cover or remove all food and packaging material. Remove all gross soils." as the first two statements in each of these sections.

22) Under the "Veal, Calving, Hog, Cattle and Horse Operations" directions on page twelve, 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.

23) On pages twelve, thirteen and fourteen, delete the word "recommended" from the following Animal Premise sections to reflect PR Notice 2000-5.

- Effectiveness against Canine Parvovirus-6th statement
- Veterinary Clinics/ Animal Life Science Laboratory/Animal Care Facilities.- 4th statement
- Dressing Plant Use-5th statement
- Veal, Calving, Hog, Cattle and Horse Operations-5th statement
- Farm Premise Disinfection Directions-6th statement
- For use in Equine, Dairy and Hog Farms-5th statement
- For Use for Treatment of Animal Housing Facilities-5th statement
- Terrarium and Small Animal Cage and Cage Furniture Disinfection-3rd statement
- Reptile Tank Cleaning and Disinfection Directions-5th statement
- Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters/Livestock Farms.....5th statement

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24) The Note on page fourteen, beginning of left column referring to measures to be taken should this product come in contact with a reptile are acceptable. Repeat this Note on page thirteen at the end of the "Terrarium and Small Animal Cage..." section modifying the statement to refer to small animals instead of reptiles.

25) Revise the sections for "Vehicles" and "Disinfectant Directions for Chick Vans, Egg Trucks, Hatchery and Farm Vehicles..." on page fourteen. Revise to include the following information: "Use the appropriate Virucidal rate to treat all vehicles. (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water-see Organism guide at the beginning of the label for appropriate use dilution with appropriate virus) (or equivalent use solution)."

26) Revise the Directions for Alternate Containers on page seventeen to be in agreement with your small package label on page eighteen. Revise to state: "Packets (For pre-measured tear open packets) (Simply) (Tear) open and pour contents into 2 gallons of water. Keep packets in box until ready to use." and "Pour contents of (4 oz) packet into 2 gallons of water. Keep packets in box until ready to use."

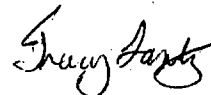
General Comments

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,



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

Enclosure: Stamped Label, DER D342461, D342462

7510P:T.Lantz:12/3/07:10324-93a

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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. 10324-93

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

MAQUAT® 64 PD

Net Contents

Batch No.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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

ENVIRONMENTAL HAZARD

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

PHYSICAL OR CHEMICAL HAZARDS

Do not 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. Store in a dry place no lower in temperature than 50°F or higher than 120°F. 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.

PACKET DISPOSAL: Do not reuse. Discard empty container and put in trash: (1839-81)

(If container is one gallon or less use the following storage and disposal statements.)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store in original container in areas inaccessible to small children. Do not store on side. Avoid creasing or impacting of sidewalls. 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.

Cleaner, Disinfectant, Non-Food Contact Sanitizer, Deodorizer, Fungicide, Mildewstat, Virucide*, With Organic Soil Tolerance 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, Institutional Kitchen Use and for Sanitizing Ice Machines

with **COMMENTS**
in EPA Letter Dated:

DEC - 5 2007

Non-Acid Bathroom Cleaner

Athletic Surface Disinfectant

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation

Formulated for effective Mushroom Farm Sanitation

Small Fly Ovicidal Treatment

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-93

ACTIVE INGREDIENTS:

Alkyl (C ₁₄ 60%, C ₁₆ 30%, C ₁₂ 5%, C ₁₈ 5%)	
dimethyl benzyl ammonium chloride.....	2.25%
Alkyl (C ₁₂ 68%, C ₁₄ 32%)	
dimethyl ethylbenzyl ammonium chloride.....	2.25%

INERT INGREDIENTS: 95.50%

TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

See left panel for additional precautionary statements.

First Aid

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

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

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

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

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

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

(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, PGIII

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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 when the label changes.)

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ORGANISM TEST

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

Disinfection in Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions; Non-Medical (Schools, Restaurants, Food Services, Beverage and Food Processing Plants): 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:

Campylobacter jejuni
Corynebacterium ammoniagenes
Enterobacter aerogenes
Enterococcus faecalis
Escherichia coli
Klebsiella pneumoniae
Listeria monocytogenes
Pseudomonas aeruginosa
Salmonella enterica
Salmonella schottmuelleri
Salmonella typhi
Shigella dysenteriae
Staphylococcus aureus
Staphylococcus aureus (Methicillin resistant)
Streptococcus salivarius

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

Avian Influenza A H5N1 virus
Avian influenza A H9N2/Turkey/Wisconsin Virus
Human Coronavirus
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes Simplex Type 1

Feline Calicivirus (surrogate for Norwalk/Norovirus) (*1)
Influenza A2/Japan virus
HIV-1 (AIDS Virus)

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

Avian Influenza A H5N1 virus
Avian influenza A H9N2/Turkey/Wisconsin Virus
Avian Reovirus
Bovine Viral Diarrhea virus
Canine Adenovirus
Canine Coronavirus
Canine Distemper
Canine Parainfluenza Virus
Canine Parvovirus (CPV)
Equine Arteritis Virus
Feline Calicivirus
Feline Infectious Peritonitis
Feline leukemia virus
Feline Panleukopenia
Feline Picornavirus
Feline Rhinotracheitis
Infectious Avian Laryngotracheitis
Infectious Bovine Rhinotracheitis virus (IBR)
Infectious Bronchitis Virus
Infectious Canine Hepatitis Virus
Minute virus of Mice (Parvovirus)
Murine Parainfluenza virus type 1
Newcastle disease virus
Porcine Parvovirus
Porcine Respiratory & Reproductive Virus (PRRSV)
Porcine Rotavirus
Pseudorabies virus
Rabies virus
Transmissible Gastroenteritis (TGE)
Vaccinia virus

Non-Food Contact Sanitizing Performance: This product is an effective one-step sanitizer against:

Staphylococcus aureus
Klebsiella pneumoniae

Fungicidal Performance: This product is effective on inanimate surfaces in the presence of 5% blood serum against:

Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) (a cause of Ringworm of the foot)
Aspergillus niger

MARKETING CLAIMS

Maquat® 64 PD for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, radiology rooms, isolation wards, and medical research facilities. (*2)

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- Patient care rooms & facilities, recovery (rooms), anesthesia, Emergency Rooms, X-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms, ophthalmic/optometric facilities. (*2)
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, police cars, fire trucks. (*2)
- Day care centers and nurseries, sick rooms, elder care centers, baby cribs. (*2)
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities.
- Restaurants, restaurants and bars, bars, taverns, cafeterias, institutional kitchens, fast food operations and food storage areas. (*2)
- 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, cadaver processing areas. (*2)
- 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), apartments. (*2)
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities.
- Heath clubs, spas, tanning spas, tanning beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Humidifier water tanks.
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.

- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants.
- Processing facilities for Fish, Milk, Wine, Citrus, Fruit, Vegetable, Ice Cream and Potatoes and beverage plants.
- Veterinary clinics, animal life science laboratories, animal research centers, animal quarantine areas, animal breeding facilities, animal grooming areas, animal holding areas, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops, operating rooms, washing areas, waiting rooms, examination rooms, and other animal care facilities. (*3)
- Hatchers, ~~setters~~, trays, ~~racks~~, egg flats, ~~walls~~, ~~floors~~, ~~ceilings~~, ~~chick boxes~~, egg cases, vans and trash containers. (*6)
- Household and automotive garages, boats, ships, barges, watercraft, campers, RV's, trailers, mobile homes, cars, automobiles, automobile interiors, trucks, buses, trains, taxis and airplanes, helicopters. (*5 & *2)
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms, porches.

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

- Storage areas.
- Countertops (counters), stovetops (stoves), sinks (bathroom, kitchen), tub surfaces, and exterior surfaces of Slurry® machines, appliances, refrigerators and ice machines.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl, Plexiglass®, vanity tops. (*5 & *2)
- Enameled surfaces, painted woodwork, (finished), Formica®, vinyl and plastic upholstery, washable wallpaper (*4)
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, folding tables, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, trash barrels, trash cans, trash containers, cuspidors and spittoons. (*2, *3 & *4)
- Hospital beds, bed railings, bedpans, gurneys, infant cribs/warmers/incubators/care equipment, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, cervical collars, neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops/~~instruments~~/~~implantation~~ (*5 & *2)
- Kennels, kennel runs, cages, kennel/cages floors, conductive flooring, examination tables, X ray tables.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning, refrigeration equipment and heat pumps.

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- Large inflatable non-porous plastic and rubber structures: animals, promotional items, moonwalks, slides, obstacle course play, exercise equipment, fishing gear. (*4)
- Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wooden Picnic tables and outdoor furniture except cushions and wood frames. (Note: Only one statement will be used on label.)
- Telephones and telephone booths.
- Highchairs, baby cribs, diaper changing stations, infant bassinets/cribs/warmers/incubators/care equipment, folding tables, hampers, laundry pails. (*2 & *4)
- Bed railings, bedpans, cervical collars, CPR training mannequins, earing lights, neck braces, oxygen hoods, nit lamps, spine boards, stretchers and unit stools. (*2)
- External lenses vision correction including eyeglasses, (not for use on contact lenses), protective eyewear, goggles, light lens covers, optical instruments/implements. (*2)
- Hair clippers, cutting implements, dryers, rollers, washable nail files, washers and workstations. (*2)
- Hard hats, headphones. (*2)
- Drinking fountains.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, glazed porcelain, glazed tile and restroom fixtures.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.
- Crypton Barrier fabric (10324-85)

~~This product is effective against bacteria, viruses, fungi (mold and mildew) and algae on the following: (75497-1)~~

- Air filters for furnaces, air conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/mats
- Buffer coats (abrasive and polishing)
- Cellulose sponges
- Fire hose
- Humidifier bristles
- Tents, tarpaulins, sail ropes

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 is a complete, chemically balanced disinfectant/sanitizer that provides clear use solutions.

This product may be applied through immersion tanks, foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems. Follow manufacturers' instructions when using this equipment:

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

This product is for use as a disinfectant on hard, non-porous surfaces (at 703 ppm active). A potable water rinse is required after application on food contact surfaces.

This product is for use as a sanitizer on hard, non-porous, non-food contact surfaces (200 ppm active). A potable water rinse is required.

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

This product meets AOAC efficacy standards for hard surface sanitizers.

One-step cleaner.

Cleans and shines.

Antibacterial.

Cross-contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces, not only in hospitals, but also in schools, institutions and industry.

This product 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.

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

Cleans everyday kitchen messes.

Cleans 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.

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

This detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, food processing plants, food service establishments and other institutions where housekeeping is of prime importance.

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.

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

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

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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).

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

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

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Hepatitis C Virus. *(This statement is not for use in California.)*

(OR)

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.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces utilizing Feline Calicivirus (surrogate for Norwalk virus).

Use this product to clean, sanitize and disinfect 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 maximizes (improves) labor results by effectively controlling odors.

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

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

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

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew.

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

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *(This statement is not in California)*

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

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

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

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

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

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

This product will not leave a grit or soap scum.

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

Kills Athlete's Foot fungus on bathroom surfaces.

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

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

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

This product has been designed for veterinarians, animal groomers, hair stylists, barbers and beauticians, for use in disinfecting and maintaining clippers. It acts as a virucide and bactericide while also cleaning ~~and providing protection against rust~~ Regular use will help to maintain ~~blades~~ blades that operate with reduced friction and with smoother clipping action. Will help to prolong equipment life. This product is designed for use in pet salons, animal hospitals, barber and beauty shops. When used as directed it will disinfect metal clipper blades as well as many other hard, non-porous surfaces. (*6)

This product cleans rodent soiled areas. (*4)

This product is for use in 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 use in Swine Premise Sanitation:

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

Floor cleaner.

This product is effective against the control of small flies on floors, walls, drains, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas.

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

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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.

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

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

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

This product provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat. (*2)

DIRECTIONS FOR USE

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

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

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

(OR)

This product is not for use on Medical device surfaces.

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from room or carefully protected. Available water must be removed following use of the product as a sanitizer.

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

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/FUNGICIDAL/VIRUCIDAL DIRECTIONS Disinfection, Fungicidal, and Non-Animal Virucidal Dilution Chart

Ounces of Product	Amount of Water
½ ounce	1 quart
1 ounce	½ Gallon
2.0 ounces	1 gallon
5.0 ounces	2½ gallons
10.0 ounces	5 gallons
20.0 ounces	10 gallons

Dilution Guide:

For Hospital or Medical Environment claims 2oz/1 gal. water
For General or Broad Spectrum claims 2oz/1 gal. water
For Fungicidal claims 2oz/1 gal. water
For Mold and Mildew claims 2oz/1 gal. water
For Virucidal claims 2oz/1 gal. water
For Animal Virucidal claims (see specific organism) 2, 2.5 or 8oz/1gal. water
For Non-Food Contact Sanitizing claims 2oz/1 gal. water

Disinfection in Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions, Non-Medical (schools, restaurants, food services, beverage and food processing plants): At 2 ounces of this product to one gallon of water (703 ppm active quat) use level, this product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum against:

Campylobacter jejuni
Corynebacterium ammoniagenes
Enterobacter aerogenes
Enterococcus faecalis
Escherichia coli
Klebsiella pneumoniae
Listeria monocytogenes
Pseudomonas aeruginosa
Salmonella enterica
Salmonella schottmuelleri
Salmonella typhi
Shigella dysenteriae
Staphylococcus aureus
Staphylococcus aureus (Methicillin resistant)
Streptococcus salivarius

Virucidal Performance: At 2 ounces per gallon use level (703 ppm active quat), this product was evaluated in the presence of 5% serum with a 10 minute contact time and

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found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian Influenza A H5N1 virus
Avian influenza A H9N2/Turkey/Wisconsin virus
Hepatitis B Virus (HBV)
Hepatitis C Virus (HCV)
Herpes Simplex Type 1
Human Coronavirus
Influenza A2/Japan virus

At 2 ounces per one gallon in the presence of 5% blood serum for a two-minute contact time this product was found to be effective against:

HIV-1 (AIDS Virus)

Fungicidal Performance: At 2 ounces per gallon use-level (or equivalent use dilution) (703 ppm active quat), this product is effective against:

Aspergillus niger
Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm)

Disinfection/Fungicidal/Virucidal Directions: Use at a rate of 2 ounces per gallon (or equivalent use dilution) (703 ppm active quat). Allow surfaces to remain wet for 10 minutes. 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.

(OR)

Add 2 ounces per gallon (16 milliliters per liter) (or equivalent use dilution) (703 ppm active quat) 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.

(OR)

Add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat) OR mix a 2-ounce packet with one gallon of water. Treated surfaces must remain wet for 10 minutes.

CLEANING AND DISINFECTION: For all general cleaning and disinfection, use 2 ounces of this product per gallon of water (or equivalent use dilution) (703 ppm active quat). Apply this product using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected (cleaned). For sprayer applications, use a coarse spray device. Allow surface to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution after each use. (Prepare a fresh solution at least daily or when solution becomes visibly dirty or diluted.)

(OR)

For Use as a One-Step Cleaner/Disinfectant: (*5)

1. Pre-clean heavily soiled areas.
2. Apply use solution (2 ounces per gallon) (703 ppm active quat) (or equivalent use dilution) to hard, non-porous environmental surfaces.
3. To disinfect, all surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces or let air dry.

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

For Disinfecting Hard, Non-Porous Surfaces Against Avian Influenza: For all use sites, the directions for use for hospital disinfection must be followed using a rate of 2 oz per gallon of water.

HOSPITAL/HEALTH CARE

Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions: For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard, non-porous surfaces.

Add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat) OR mix a 2-ounce packet with one gallon of water. Treated surfaces must remain wet for 10 minutes.

At 2 ounces per one gallon (or equivalent use dilution) (703 ppm active quat) in the presence of 5% organic load, this product was proven to be effective against (*Duck*) Hepatitis B Virus with a contact time of 10 minutes.

At 2 ounces per one gallon (or equivalent use dilution) (703 ppm active quat) in the presence of 5% organic load this product was proven to be effective against Hepatitis C Virus (HCV) with a contact time of 10 minutes. (*Not for use in California*)

(OR)

At 2 ounces per one gallon (or equivalent use dilution) (703 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (*Duck*) Hepatitis B Virus (HBV) and Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus [HCV]) with a contact time of 10 minutes.

At 2 ounces per one gallon in the presence of 5% blood serum for a two-minute contact time this product was found to be effective against HIV-1 (AIDS Virus).

At 2 ounces per one gallon (or equivalent use dilution) (703 ppm active quat) in the presence of 5% organic load this product was proven to be effective against Feline Calicivirus (surrogate for Norwalk 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 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 I (HIV-1) (associated with AIDS), Hepatitis B virus (HBV), and Hepatitis C virus (HCV).

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

Personal Protection: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.

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

Contact Time: Leave surfaces wet for two minutes for HIV and ten minutes for HBV and HCV with 2 ounces per gallon (or equivalent use dilution) (703 ppm active quat)

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use solution. This 2 minute contact time will not control other common types of viruses and bacteria.

Surgical Instrument Presoak (*2): Immerse pre-cleaned surgical instruments in a 2-ounce per gallon solution of the product (or equivalent use dilution) (703 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Then proceed with normal sterilization procedure. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

NOTE: Plastics may remain immersed until ready to use. 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 2 ounces per gallon of water (or equivalent use dilution) (703 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visibly dirty or discolored.

For Disinfecting Hard, Non-Porous Bath (Fiberglass) 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 2 ounces of this product for each gallon of water (or equivalent use dilution) (703 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 solutions from the unit and rinse any/all disinfected (cleaned) surfaces with fresh water. The unit is ready for reuse.

Disinfection of Hard Non-Porous Surfaces in Whirlpool (R-) Units: After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon (or equivalent use dilution) (703 ppm active quat) of water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units. (6836-82)

FUNGICIDAL DEODORIZATION / MOLD & MILDEW

Fungicidal Performance: At 2 ounces per gallon use-level, (or equivalent use dilution) (703 ppm active quat) this product is effective against *Trichophyton mentagrophytes* (athlete's foot fungus) (a cause of Ringworm) (a cause of Ringworm of the foot) and *Aspergillus niger* on inanimate surfaces in the presence of 5% blood serum in locker rooms, dressing rooms, shower and bath areas and exercise facilities. Saturate surfaces with use solution for a period of 10 minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears. (*1)

Mold and Mildew Control: At 2 ounces per gallon (or equivalent use dilution) (703 ppm active quat) this product will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard non-porous surfaces (as indicated in general instructions above). Saturate surfaces with use solution for a period of 10

minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears.

Cleaning/Deodorizing Directions: Add 1 - 4 ounces per gallon (8-32 milliliters per liter) of water to clean and deodorize windows, mirrors and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

General Deodorization: To deodorize, add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat). Allow to air dry. (Alternate statement: Excess liquid material must be wiped up or allowed to air dry).

For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment: It is especially important to pre-clean for the product to perform properly. Then, apply a wetting concentration of 7 ounces of this product per gallon of water (or equivalent use dilution) (2,460 ppm quat active).

For Deodorizing Septic Storage Tanks: When tanks are empty, pour 2 oz. per gallon of water (703 ppm active quat) (or equivalent use dilution) into septic storage tank on recreational vehicles, 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 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. (*2)

Air Freshener/Automotive Uses: Effective on smoking and cooking odors (garlic, fish, onions, etc.). Automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. A solution of 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 ppm active quat) will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets, bathrooms and A/C filters. 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 surfaces to air dry. (*4)

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

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 2 ounces per gallon (703 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.

Use Solution 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 2 ounces per gallon (703 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.

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Humidifier Directions: Thoroughly clean water tank and filters. Add 2 ounces of this product per gallon of refill water (or equivalent use dilution). Not for use in heat or atomizing type humidifiers.

(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 gallon of water in the humidifier tank add 2 ounces of this product (or equivalent use dilution). When you refill the tank, add ½ ounce of this product for every 2 gallons of water in the tank (or equivalent use dilution).

Not for use in heat vaporizing or atomizing type humidifiers.

WATER AND SMOKE DAMAGE RESTORATION (Not applicable in California)

Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, 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 (Not applicable in CA): During mitigation procedures, dilute 2-4 ounces of this product per gallon of water (or equivalent use dilution) allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected 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 (Not applicable in CA): For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2-4 ounces of the product per gallon of water (or equivalent use dilution), allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

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

For Portable Extraction Units: Mix 1 ounce of this product per gallon of water.

For Truck Mounted Extraction Machines: Mix 24 ounces of the product per gallon of water and meter at 4 gallons per hour.

For Rotary Floor Machines: Mix 2 ounces of this product per gallon of water (or equivalent use dilution) 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 DEODORIZATION/SANITIZER AGAINST ODOR-CAUSING BACTERIA,
FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE**

(Use as a sanitizer is not allowed in CA)

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

Vacuum carpet thoroughly prior to application. Mix 1 ounce of product per gallon of water. Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 2 ounces 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 must 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

Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions: Immerse pre-cleaned barber/salon tools, such as combs, brushes, razors, clipper and trimmer blades, tweezers manicure/pedicure tools and scissors, in a 2 ounce per gallon solution of the product (or equivalent use dilution) (703 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

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

(OR)

Disinfecting/Virucide Grooming Clippers: Turn the clipper off occasionally during use and spray between the teeth of blades a solution of 2 ounces per gallon (or equivalent use dilution) (703 ppm active quat). Allow surface to remain wet for at least 10 minutes. Spray away hair, dandruff and dust particles while disinfecting the blades. (*6)

(OR)

Cleaning Hair Clippers and Electric Shears: While clipper/shear is running, hold in the downward position and spray a 2-ounce per gallon of water solution (or equivalent use dilution) (703 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. Turn off clipper/shear. Then wipe dry with a clean soft cloth. Lubricate as per clipper/shear manufacturer's instructions. (*2)

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(OR)

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 precleaned shear/implement into a container of 2-ounce per gallon of water solution (or equivalent use dilution) (703 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. (*2)

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 2 ounces per gallon of water (or equivalent use dilution) (703 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

NON-ACID TOILET BOWL (AND URINAL) DISINFECTION/CLEANER DIRECTIONS: Remove gross filth prior to disinfection.

From Concentrate: Add 2 ounces (16 milliliters per liter) to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim, with a cloth, mop, or sponge. Repeat and allow solution to stand for 10 minutes and flush.

From Use Solution: Empty toilet bowl or urinal and apply 2 ounces per gallon of water (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 solution to stand for 10 minutes and flush. For sprayer applications, use a coarse spray device.

OR

To disinfect toilet bowls, flush toilet, add 2 oz. detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush. (*2)

For Heavy Duty Cleaning: Empty toilet bowl or urinal and apply 8 ounces per gallon of water (64 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 solution to stand for 10 minutes and flush.

(OR)

To disinfect toilet bowls, flush toilet, add 2 oz. detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush.

(Or)

General Cleaning Toilet Bowl: Apply (Open cap) (Squeeze gently, directing) 2 ounces of bowl cleaner under the rim and on sides of bowl (inside only). Brush, clean and flush toilet. (Close cap). Rinse brush with clean water. Do not use on any other surfaces including toilet seat, toilet lid, countertops, tubs and sinks. To clean other acid resistant toilet bowls or urinals, dilute product with 3 parts water. Do not allow solution to remain on surfaces without immediately rinsing thoroughly with water.

(Or)

To Clean and Disinfect: [redacted] use toilet mop to push water [redacted] down [redacted] Press swab mop against bowl to remove excess water then saturate mop with 2 ounces of this product while holding bottle and mop applicator over bowl. Swab bowl completely making sure to get under the rim. Let stand for 10 minutes then flush. Rinse applicator completely.

(Or)

To Disinfect Toilet Bowls: [redacted] water from bowl. Apply (Squeeze) 2 ounces of bowl cleaner onto bowl brush. Clean the entire unit especially under the rim at water outlets. Allow surface to remain wet 10 minutes. Flush and rinse out bowl brush with clean water. A preliminary cleaning step is required for the removal of heavy soil prior to disinfection.

(Or)

To Disinfectant Toilet Bowls: Flush to remove heavy soil. To clean, simply squirt 2 ounces of this product under the rim and around sides. Allow it to stand several minutes then scrub entire surface (especially under the rim) with a bowl (toilet) mop. Flush and rinse. To disinfect, [redacted] water from bowl. Squirt at least two ounces of this product under the rim and around the sides. Allow solution to remain in the bowl for 10 minutes after scrubbing. Flush and rinse.

(Or)

To Disinfectant Toilet Bowls:

1. Remove gross filth and heavy soil deposits.
2. [redacted] water from bowl by [redacted] over the rim.
3. Press swab applicator against side of bowl to remove excess water.
4. Apply 2 ounces of this product to swab applicator, cloth, mop, sponge, or directly to surface.
5. Swab entire surface area, especially under the rim.
6. Allow entire surface to remain wet for ten (10) minutes.
7. Flush toilet and rinse swab applicator thoroughly.

(Or)

TOILET BOWL (AND URINAL) DISINFECTION/CLEANER DIRECTIONS: Remove gross filth prior to disinfection. Empty toilet bowl or urinal and apply solution of 2 ounces of this product 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.

(Or)

To Clean and Disinfect Urinals: Flush to remove heavy soil. Remove screens and strainers. Then squirt 2 ounces of this product around edges and top. Allow solution to flow down over surfaces. Allow it to stand several minutes before scrubbing, then flush and rinse. To disinfect, allow solution to remain in urinal at least 10 minutes after scrubbing.

(Or)

To Disinfect Urinal:

1. Remove gross filth and heavy soil deposits.
2. Apply 2 ounces of this product directly to urinal surfaces including water outlets area for general cleaning.
3. Then pour an additional 2 ounces of product on applicator.
4. Clean entire unit, especially under rim at water outlets, with applicator.
5. Remove screen trap to deodorize drain and apply 1/2 ounce directly on edge and into drain.
6. Wait 10 minutes, flush and rinse applicator.

To Disinfect Tubs, Shower Stalls, Sinks, Faucets: Swab area and remove gross filth and heavy soil. Apply 2 ounces of (product name) per gallon of water (703 ppm active quat) (or equivalent use dilution) onto surface to be cleaned or apply with cloth or

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sponge to wet all surfaces thoroughly and allow surface to remain wet for at least 10 minutes. Wipe around with damp cloth or sponge. Do not allow solution to dry on surface. Rinse thoroughly with water. (10324-158)

For Use To Clean and Disinfect Shower Rooms, Locker Rooms and Other Large Open Areas with Floor Drains: (10324-144).

1. Pre-clean heavily soiled areas.
2. Apply Use Solution of 2 ounces per gallon of water (703 ppm quat active) (or equivalent use dilution) 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 concentrate into foam gun bottle and attach to spray nozzle and ensure gun is attached to hose. **Note:** See foam gun instructions for more information. Make sure setting is set for 1:64 dilution. Once in place, squeeze the handle to dispense foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes. (Foam gun directions not for use in California.)

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

RV Holding Tanks/Recreational Vehicles: For toilet waste and holding tanks, cover bottom of holding tank with water and 1 - 4 ounces per gallon of water to deodorize. If odors return before time to empty, add 1 - 2 ounces per gallon of water to the tank. For kitchen waste, add 1 to 2 ounces to gray water tank as needed to control malodors created by dirty dishwasher. (*4)

FOOD PROCESSING PREMISES

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 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 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 surface 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, exterior surfaces of appliances, and tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. Add 2 ounces of this product to one gallon of water (or equivalent use dilution) (703 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 surface to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. 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 2 ounces of this product per gallon of water (or equivalent use dilution) (703 ppm active quat). Follow the Disinfectant directions above.

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 Drosophila spp. and Phoridae Family of Flies ON NON-FOOD CONTACT SURFACES: For control of small flies: Drosophila spp. and the Phoridae family. To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of 2 ounces of this product per gallon of water (or equivalent use dilution) (703 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 2 ounces per gallon of water (or equivalent use dilution) (703 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.

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 3.5 ounces product to 1 gallon of water (or equivalent use dilution) (1,230 ppm). Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution of 200 ppm active quaternary (2 ounces per 0.72 gallons of this product) prior to use. Allow food contact surfaces to drain thoroughly before operations are resumed.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must 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

Animal Virucidal Performance: At 2 ounces per gallon of water use level (703 ppm active quat) (or equivalent use dilution), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

- Avian Influenza A H5N1 virus
- Avian influenza A H9N2/Turkey/Wisconsin virus
- Avian Reovirus
- Bovine Viral Diarrhea virus
- Canine Distemper
- Canine Coronavirus
- Equine Arteritis Virus
- Infectious Avian Laryngotracheitis
- Infectious Bovine Rhinotracheitis virus (IBR)
- Infectious Bronchitis Virus
- Newcastle disease virus
- Porcine Respiratory & Reproductive Virus (PRRSV)
- Porcine Rotavirus
- Pseudorabies virus
- Transmissible Gastroenteritis (TGE)

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Vaccinia virus

At 2.5 ounces per gallon of water use level (or equivalent use dilution), this product is found to be effective against the following viruses on hard, non-porous environmental surfaces in the presence of 5% serum with a 10-minute contact time:

- Canine Adenovirus
- Canine Parainfluenza Virus
- Feline Calicivirus
- Feline Infectious Peritonitis
- Feline leukemia virus
- Feline Panleukopenia
- Feline Picornavirus
- Feline Rhinotracheitis
- Infectious Canine Hepatitis Virus
- Murine Parainfluenza virus type 1
- Rabies virus

At 8 ounces per gallon of water use level (or equivalent use dilution), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

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

Effectiveness against Canine Parvovirus (CPV), Minute virus of Mice (Parvovirus) and Porcine Parvovirus: At 8 ounces per gallon of water (or equivalent use dilution), this product is found to be effective against Canine Parvovirus (CPV), Minute virus of Mice (Parvovirus) and Porcine Parvovirus on hard, non-porous environmental surfaces in the presence of 5% serum with a 10 minute contact time. Prior to use, remove all animals, and their feeds from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 8 ounces of this product per gallon of water (or equivalent use dilution). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

(OR)

For Canine Parvovirus Activity: This product is effective against Canine Parvovirus at 8 oz. per gallon. Follow "Veterinary Clinics/Animal Life Science Laboratory/Animal Care Facilities/Animal Research Centers/Animal Quarantine Areas/Zoos/Pet Shop/Kennels/Animal Breeding Facilities/Breeding and Grooming Establishments/Tack Shops Disinfection Directions".

Veterinary Clinics/Animal Life Science Laboratory/Animal Care Facilities/Animal Research Centers/Animal Quarantine Areas/Zoos/Pet Shop/Kennels/Animal Breeding Facilities/Animal Husbandry/Breeding and Grooming Establishments/Tack Shops Disinfection Directions: For cleaning and disinfecting the following hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises,

animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of the recommended disinfecting and virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (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, scrapers, used in removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse. (*3) (Note to reviewer: Only one use dilution will be used in this section.)

DRESSING PLANT USE: 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 of 2 ounces of this product per gallon (or equivalent use dilution) of water. Scrub to loosen all soils. Allow surface to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

(OR)

RENDERING PLANT/DRESSING PLANT DISINFECTANT/FUNGICIDE/VIRUCIDE DIRECTIONS (DRESSING PLANT AND RENDERING PLANT DISINFECTANT – FUNGICIDE – VIRUCIDE DIRECTIONS): Preclean all surfaces before using this product. 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 before disinfection. Remove all gross soils. Saturate all surfaces with the use solution of 2 ounces of this product per 1 gallon of water (or equivalent use dilution) (703 ppm active quat). Scrub to loosen all soils. Surfaces must remain wet for 10 minutes (Allow treated surfaces to soak for 10 minutes) then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Thoroughly rinse all wetted and cleaned surfaces with potable water.

VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS: Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles, ~~and other~~ 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 (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse. (*3) (Note to reviewer: Only one use dilution will be used in this section.)

FARM PREMISE DISINFECTION DIRECTIONS

FARM PREMISE DISINFECTION DIRECTIONS: Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens,

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stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse. For effectiveness against Porcine Parvovirus, use this product at 8 ozs. per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*

(OR)

For use in Equine, Dairy and Hog Farms:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) for a period of 10 minutes. For effectiveness against Porcine Parvovirus, use this product at 8 ozs. per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or 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, stables, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. For effectiveness against Porcine Parvovirus, use this product at 8 oz. per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*

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

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. *(Use on rocks not allowed in California.)*

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) 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. For effectiveness against Minute virus of Mice, use this product at 8 ozs. per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*
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.

Reptile Tank Cleaning and Disinfection Directions (6836-152): Remove all reptiles from the enclosure (tank) prior to cleaning and disinfecting. Remove all litter or drippings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply the recommended disinfecting and virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) to the surfaces of the enclosure (tank) until thoroughly wet. Allow surfaces to remain wet for 10 minutes. Wipe dry. Rinse all surfaces that come in contact with food with potable water before reuse. Allow the enclosure (tank) to ventilate for a minimum of 10-15 minutes before replacing the reptiles. *(Note to reviewer: Only one use dilution will be used in this section.)*

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

Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Livestock Farms, Equine Quarters, Animal Quarters and Kennels Directions: Prior to use, remove all poultry, other animals, and their feeds from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other 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 recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. For effectiveness against Porcine Parvovirus, use this product at 8 ounces per gallon of water. *(Note to reviewer: Only one use dilution will be used in this section.)*

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.

POULTRY (AND SWINE) PREMISE SANITATION SITE PREPARATION

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

Application and Use Dilution Poultry/Turkey/Swine Premise, Animal Quarters and Kennels: Remove all animals and feeds from premises, vehicles (trucks and cars), and enclosures (coops, crates, kennels). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and other fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings, coops and other closed spaces. Do not house poultry or other animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers, and other equipment which may contact food or water with soap or detergent, and rinse with potable water before reuse. *(*) (Note to reviewer: Only one use dilution will be used in this section.)*

HATCHERIES: Use the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) to treat the following hard non-porous surfaces: hatcher, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, trash containers, carts, sexing tables, delivery trucks, vans 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. *(Note to reviewer: Only one use dilution will be used in this section.)*

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray. Use the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more and allow to air dry. *(Note to reviewer: Only one use dilution will be used in this section.)*

DISINFECTANT DIRECTIONS FOR CHICK VANS, EGG TRUCKS HATCHERY and FARM VEHICLES SERVICEMAN VEHICLES (VEHICLES): Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. Use the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. For sprayer applications, use a coarse spray device. *(*) (Note to reviewer: Only one use dilution will be used in this section.)*

DISINFECTANT/VIRUCIDAL* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES OF AUTOMATED TRAY, RACK AND BUGGY WASHERS: Mix a solution containing the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution). Remove all litter and manure from surfaces to be treated. Treat hard non-porous, non-food contact surfaces of automated trays, racks and buggy washers into solution for 10 minutes. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty. *(*) (Note to reviewer: Only one use dilution will be used in this section.)*

DISINFECTANT/VIRUCIDAL* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES IN EGG RECEIVING AND EGG HOLDING AREAS: Mix a solution containing the recommended disinfecting or virucidal solution (2 oz. per gallon of water, 2.5 oz. per gallon of water, or 8 oz. per gallon of water – see Organism guide at beginning of label for appropriate use dilution with appropriate virus) (or equivalent use dilution). Remove all litter and manure from surfaces to be treated. Saturate hard non-porous, non-food surfaces with the solution for a period of 10 minutes. Apply by mop, brush or sprayer. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty. *(*) (Note to reviewer: Only one use dilution will be used in this section.)*

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

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surfaces with soap or detergent and rinse with water. Saturate surfaces with the disinfecting solution (2 oz per gallon of water) (703 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.

HORTICULTURAL AND ORNAMENTAL PLANT

(The following use directions are from 53642-1.)

It is a violation of Federal Law to use this product in a manner inconsistent with its label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

COMMERCIAL FLORIST USE DIRECTIONS: To clean, disinfect and deodorize hard non-porous surfaces in one step, prepare use solution by adding (mixing) 2 ounces per gallon of water (1:64). For heavy-duty use, add (mix) 8 ounces per gallon of water (1:16).

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, brush, sponge or sprayer.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

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

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

This product is a general disinfectant. It will help in the control of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, and odor causing bacteria and algae. It is designed specifically for use where disease cross contamination may occur between plants. Pre-clean all surfaces prior to application of the disinfectant solution. All inanimate surfaces must be thoroughly wetted and remain wet for 10 minutes for disinfection. Then wipe up excess or allow to air dry. Fresh solution must be prepared at least daily or when use solution becomes visibly dirty. To apply solution for sprayer applications, use as a coarse spray only.

Agriculture Use Requirements: *(Note to reviewer: This section might be surrounded by a box on label.)* Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses; and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this section (box) only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such

as plants, soil, or water is: coveralls worn over long sleeved shirt and long pants, waterproof gloves, chemical-resistant shoes plus socks, and protective eyewear.

Non-Agricultural Use Requirements: *(Note to reviewer: This section might be surrounded by a box on label.)* The requirements in this section (box) apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40CFR170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons, children, pets and others out of treated areas until sprays have dried.

CHEMIGATION: Do not apply this product through any type of irrigation system except when used to control algae in nozzles as directed on this label.

GENERAL INFORMATION: This product is a general disinfectant. It will help in the control of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, and odor causing bacteria and algae. It is designed specifically for greenhouse use where cross contamination may occur between plants. Pre-clean all surfaces prior to application of the disinfectant solution. All inanimate surfaces must be thoroughly wetted and remain wet for 10 minutes for disinfection. The wipe up excess or allow to air dry. Fresh solution must be prepared at least daily or when use solution becomes visibly dirty. To apply solutions for sprayer applications, use as a coarse spray only.

DISINFECTING

Work Areas and Benches: Spray or swab working surface with a solution of 2 oz. (4 tbsp) of this product per gallon of water (or equivalent use dilution) for 10 minutes before each work period and again after each plant is completed to help control transfer of diseases such as *Botrytis*, crown rot, downy mildew, *Erwinia*, *Phalaenopsis* and root rot. To apply solutions for sprayer applications, use as a coarse spray only.

Pots, Flats and Flower Buckets: Brush or wash used pots and flats, then soak in a solution of 2 oz. (4 tbsp) of this product per gallon of water (or equivalent use dilution) for 10 minutes to help control transfer of diseases such as anthracnose, blight, *Botrytis*, crown rot, *Erwinia*, mildew, *Phalaenopsis*, root rot, and rust.

Cutting Tools: Soak cutting edge of tool for 10 minutes in a solution of 2 oz. (4 tbsp) of this product per gallon of water (or equivalent use dilution) before use to help control transfer of diseases such as *Botrytis*, *Erwinia*, *Phalaenopsis*, root and stem rots, and Tobacco Mosaic Virus (TMV). Dry and oil tools at the end of each workday.

ALGAE CONTROL

When used as directed, this product is effective against algae. With a little experience, you will quickly recognize algae contamination as it starts. Algae should be killed immediately! Remember – algae can double or quadruple in growth every day. Algae are generally dead when it does not feel slick to the touch and the color has changed. However, algae do not always change color when killed.

Greenhouse Glass: Spray or swab surface with a solutions of ¾ oz (1½ tbsp) of this product per gallon of water (or equivalent use dilution). Allow to air dry. Wash off dead algae with water. Spray clean surface again with the solution. Do not rinse. To apply solutions for sprayer applications, use as a coarse spray only.

House Plants: To control algae and cross contamination in terrariums, bubbles, etc., wipe inside of glass with a solution of 0.186 oz. (1.12 tsp) of this product per quart of water (or equivalent use dilution). Lightly spray plants with same solution.

Walkways: For heavy infestations, spray or swab surface with a solution of 2 oz. (4 tbsp) of this product per gallon of water (or equivalent use dilution). Let stand for an

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hour or more then brush and wash away dead algae. Soak area again with the solution. Do not rinse. This product will inhibit the growth of algae on walkways. Allow to dry on the surface and repeat application when algae growth returns. To apply solutions for sprayer applications, use as a coarse spray only.

OTHER USES

Overhead Watering Systems: During the last 2-3 minutes of watering use 4 oz. (8 tablespoons) of this product per 20 gallons of water as a control program. Due to variations of growing conditions, use every second to fourth watering. Will control algae in nozzles.

Evaporative Cooler: Controls algae, slime forming fungi on cooler pads and certain fungal plant pathogens that may carry over in the cooler as well as bacterial odors. Use 2 ounces (4 tbs) of this product per 15 gallons of water every other week.

NOTE: Unintentional consequences such as crop injury or ineffectiveness may result because of certain environmental or growing conditions, manner of use or applications, and insect resistance. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage and for performance prior to full-scale application. All risks shall be assumed by the user.

OTHER USES

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 9.125 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 18.25 fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

Cleansing of Body Surfaces and Body Orifices of Human Remains: To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, apply 2 ounces of this product to a gallon of water (or equivalent use dilution) (703 ppm active) to the entire body. Allow a 10-minute contact time for optimal results. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Prepare a fresh solution for application of each remains.

For Use on Finished Floors: To limit gloss reduction, use 2 ounces of this product per one (1) gallon of water (or equivalent use dilution). Apply with a damp mop or auto scrubber. Allow to air dry.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

Non-Food Contact Sanitizing Performance: At 703 ppm active, this product is an effective one-step sanitizer against:

Staphylococcus aureus

Klebsiella pneumoniae

Preparation of sanitizer use solution: Add 2 ounces of this product to 1 gallon of water (or equivalent use dilution) (703 ppm active) to sanitize hard, non-porous surfaces. Apply sanitizer use dilution with a cloth, mop, sponge, sprayer or by immersion.

For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface and rub with brush, sponge or cloth. Do not breathe spray. With spray applications, cover or remove all food products.

Treated surfaces must remain wet for 60 seconds, then wipe with sponge, mop or cloth or allow to air dry.

NON-FOOD CONTACT 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 sanitizing 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 2 ounces of this product per gallon (or equivalent use dilution) (703 ppm active quat) 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. (*3)

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 2 to 3 ounces per gallon of water (or equivalent use dilution) (703 to 1051 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 (2 oz. per gallon of water) (or equivalent use dilution) (703 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

For use in dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 3.5 ounces of product to 1 gallon of water (1,230 ppm) (or equivalent use dilution). 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 must a room or building be entered by anyone within two hours of the actual fogging. Use for a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

ANIMAL HOUSING

TO SANITIZE HOOF TRIMMING EQUIPMENT: Prior to application, pre-clean hoof trimming equipment before and after use on each animal with detergent and warm

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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 2 oz of this product per 1 gallon of water solution (703 ppm active quat) (or equivalent use dilution). 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. (*7)

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 155 ounces this product to 1.25 gallons water (or equivalent use dilution). Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not allow people to contact or breath this fog and do not enter until 2 hours after fogging is complete. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 32 ounces of this product to 128 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 2.5 ounces 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 completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Do not allow people to contact or breath this fog and do not enter until 2 hours after fogging is complete. 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 2 ounces per gallon (703 ppm active) (or equivalent use dilution) 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.

Ultrasonic Bath Sanitizer Directions: Use this product to disinfect hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 2 ounces per gallon of water (or equivalent use dilution) (703 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 60 seconds, according to manufacturers' use directions.

Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visibly dirty or discolored.

Sanitization of Hard, Non-Porous Surfaces in Whirlpool Units: After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of (or equivalent use dilution) (703 ppm active quat) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 60 seconds. After the unit has been thoroughly sanitized, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

MUSHROOM FARM INDUSTRY USE DIRECTIONS

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 2 ounces 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 4 ounces of this product per gallon of water (or equivalent dilution). Heavily soiled areas may require repeated cleaning before treatment.

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

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) (*1)

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

OR

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

REFILLS (10324-141)

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

MIX EACH PACKET WITH 2 GALLONS OF WATER

MAQUAT[®] 64 PD

E.P.A. Reg. No. 10324-93 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 4.0 FLUID OZ.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride 2.25%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride 2.25%

INERT INGREDIENTS: 95.00%

TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE
DIRECTIONS

DISPOSAL: Do not reuse container. Wrap and put in trash collection.

**MASON CHEMICAL COMPANY
"THE QUATERNARY SPECIALISTS"**



721 W. Algonquin Road
Arlington Heights, IL 60005

847-290-1621

Toll Free:
1-800-362-1855

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