

10324-156

01/16/2007

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 16 2007

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

Subject: Maquat 512-NHQ  
EPA Registration No. 10324-156  
Amendment Date: 8/17/06  
EPA Receipt Date: 8/31/06

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 new marketing statement, directions for use and organisms

Acceptable Data

The following studies performed on 10324-141 may be used to support this product.

Data Requirement	Means of Support	Status
Avian Influenza A (H3N2) virus (Avian Reassortant)	Submitted study, MRID 469233-01	Acceptable, 660 ppm active in 5% soil , 400 ppm hard water for 10 minutes
AOAC Use Dilution - Clostridium difficile vegetative form	Submitted study, MRID 469233-02	Acceptable, 660 ppm active in 5% soil , 400 ppm hard water for 10 minutes
Sanitizer, Non-Food Contact Surface Klebsiella pneumoniae, Staphylococcus aureus	Submitted study, MRID 469233-03	Acceptable, 660 ppm active in 5% soil , 400 ppm hard water for 3 minutes

Conditions

Revise the label as follows:

- 1) Revise the 8<sup>th</sup> and 9<sup>th</sup> claim in the right column on page 2 by deleting the word, "safe," and stating: "Will not harm."

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

2) Revise the 7th claim/bullet in the right column on page 3 to end as follows: "...coils and drain pans of air conditioning, refrigeration equipment and heat pumps." By deleting the word "and" following air conditioning.

3) Revise the 13th claim/bullet in the right column on page 3 to read as follows: "Eye glasses, (not for use on contact lenses), light lens covers, optical instruments/implements." The term "external lenses vision correction" is unclear.

4) Revise the 14th claim/bullet in the right column on page 3 to include the following: "...latrine buckets, glazed porcelain tile and restroom..."

5) Revise the section on page 4 which begins: "Use this product to clean, sanitize and disinfect non-porous ambulance equipment..." by revising to include the following: "...(Precaution: *Cleaning at 120° F will avoid...*" so that this section will be in agreement with the mandatory label language in PR Notice 2000-5.

6) Revise the 1<sup>st</sup> section on page 4, right column, to end as follows: "...dishes, utensils or interior surfaces of appliances."

7) Delete the heading "Organism Guide" at the beginning of page 5 and replace with the heading "Directions for Use" along with the statement: "It is a violation of Federal Law to use this product in a manner inconsistent with its labeling." Delete this heading and statement as they appear in the right column on the same page. The directions for the use of this product begin where you have proposed the heading "Organism Guide".

8) Revise page 5 by indicating that the submitted data support the mitigation of *Clostridium difficile* in its vegetative form by stating *Clostridium difficile* –vegetative (ATCC 9689).

9) The species identification for *Salmonella choleraesuis* has been changed by ATCC. Revise page 5 to indicate the new designation, *Salmonella enterica* for each Salmonella species. Delete the reference to (a.k.a. Salmonella enteritidis) which is incorrect.

10) Since the animal viruses listed under "Animal Premise Virucidal Performance" are not indicative of the other use sites on this label, these directions and this list of animal viral pathogens must be deleted from page 5 and placed in the Animal Housing Facilities section on page 9. Relocate the following organisms to the "Animal Housing Facilities" section:

Avian Infectious Bronchitis virus Beaudette  
Avian Influenza A (H3N2) virus (Avian Reassortant)  
Canine Coronavirus  
Canine Parvovirus (CPV) at 1 oz. per gallon  
Canine Distemper Virus  
Feline Picornavirus  
Infectious Bovine Rhinotracheitis Virus

Pseudorabies Virus  
Porcine Parvovirus at 1 oz. per gallon  
Transmissible Gastroenteritis Virus  
Vaccinia Virus

12) Revise the 8<sup>th</sup> and 10<sup>th</sup> sections on page 6, left column and the last section in the right column of this page to end as follows: "...glassware, dishes, or interior surfaces of appliances." Or "...dishes, utensils or interior surfaces of appliances."

13) Revise the Cleaning and Disinfection section on page 7 to indicate cleaning directions exclusively. This section does not make sense as it is written. Revise to state: "**Cleaning:** For all general cleaning, use 1/4 fluid ounce of this product per gallon of water (1:512 solution) or equivalent use dilution. Apply this product using a cloth, mop or pressure sprayer so as to thoroughly wet surface to be cleaned." Delete all other language from this section.

14) Revise the 1<sup>st</sup> section on page 9, left column to end as follows: "...glassware, dishes, or interior surfaces of processing equipment."

15) Under Animal Housing Facilities on pages 9 and 10, revise "Disinfection/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels", "Farm Premise," "Equine, Dairy and Hog Farms," "Livestock, Poultry and Turkey Houses," "Animal Housing Facilities," and "Veterinary Clinics/Animal Life Science..." directions by including the Canine Parvovirus and Porcine Parvovirus rate by stating "(Use)(Saturate all surfaces with) (Apply) 1/4 oz per gallon of water (1 oz per gallon of water against CPV and Porcine Parvovirus)..."

16) In accordance with current Agency policy on Avian Influenza label claims, featured statement/phrases emphasized/enlarged lettering, special graphics, or any product name that employs the terms "Avian influenza A" or "Bird Flu" are unacceptable. Featured statements/phrases, emphasized/enlarged lettering or special graphics that are employed for the primary purpose of especially promoting or drawing attention to product efficacy against avian influenza A, are also unacceptable.

17) Revise the "For Use for Treatment of Animal Housing Facilities" section on page 10 by revising statements #6 through #9 to read exactly as follows:

- "6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrappers used in removing litter and manure.
- 7. Ventilate buildings and other closed spaces.
- 8. Do not house animals or employ equipment until product has dried.

9. Then thoroughly scrub all treated surfaces with soap and detergent and rinse with potable water before reuse.”

18) Revise the “Disinfection/Fungicide/Virucide of Barber/Salon Tools Directions” in the left column of page 11 by deleting the phrase: “Fresh solution should be prepared...” and replacing with “*Prepare a fresh solution* at least...” such that this section will be in agreement with PR Notice 2000-5.

19) Revise the “Citrus Canker Control” directions on page 11 to include mandatory language (PR Notice 2005-5) as follows: “*Treat all trucks, attached trailers, field harvesting...*”, “*Clothing must be either ....*” and “*Footwear must be rinsed before reuse.*”

20) Revise the “Shoe Bath Sanitizer Directions” on page 11 to include mandatory language (PR Notice 2000-5) as follows: “...shoe baths containing one inch of freshly made sanitizing solution *must* be placed at all...”

21) Revise the “Shoe Foam Directions” on page 12 to include mandatory language (PR Notice 2000-5) as follows: “...Foam area *must* be washed and replaced...”

22) Revise the “Entryway Sanitizing Systems” directions on page 12 to include mandatory language (PR Notice 2000-5) as follows: “...The (spray) (foam) *must* cover the entire path of the doorway...”

23) Revise the “Sanitization of Hard, Non-Porous Surfaces in Whirlpool Units” as follows: “...After the unit has been thoroughly *sanitized*, drain...”

24) Revise the directions for “Carpet Deodorizer...” on page 12, the second section in this set of directions to be in agreement with the rotary floor machine directions which precede it as follows: “...For rotary floor machines, mix 1/4 ounce per gallon of water...”

25) Correct the rate in the “Sanitizing Hatchery Rooms Using Fogging Devices” directions on page 13 to be in agreement with the cited me-too label 10324-162 as follows: “...Mix 0.625 ounces of this product to 5 gallons of water...”

26) Correct the directions for Disinfection of Mushroom Farms at the top of page 13, right column, to include mandatory language (PR Notice 2005-5) as follows: “...*Treat surfaces such that they remain wet for...*”

**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.

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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 Zenobia Jones at 703-308-6198.

Sincerely,



Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510C).



**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. 10324-156

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

# MAQUAT® 512-NHQ

Net Contents

Batch No.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

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

### ENVIRONMENTAL HAZARD

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

### PHYSICAL OR CHEMICAL HAZARDS

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

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

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL** (Larger than 1 gal.): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

### STORAGE AND DISPOSAL

Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Wrap and discard in trash (or recycle).

## One Step Disinfectant Germicidal Detergent and Deodorant

Disinfectant, Cleaner, Mildewstat, Fungicide, Virucide\*, Deodorizer (Odor Counteractant) (Odor Neutralizer) for Hospitals, Nursing Homes, Whirlpool, Households, Food Service, Commercial, Institutional, and Industrial Use (Only) (Suitable) For Use in Meat and Poultry Plants. Schools, Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Food Handling and Process Areas.

Non-Dulling to Floors (Floor Finishes).

Effective in hard water up to 400 ppm hardness (Calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

Athletic Surface Disinfectant.

(Product of USA) (Made in the USA)

### ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride ..... 20.28%

n-Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%) dimethyl benzyl ammonium chloride ..... 13.52%

INERT INGREDIENTS: ..... 66.20%

TOTAL ..... 100.00%

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
JAN 16 2007  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No. 10324-156

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

See left (back) (side) (right) panel (of label) (below) for additional  
precautionary statements.

### First Aid

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

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

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

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

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

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

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

1/19

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

This product is a one-step (hospital-use) germicidal (disinfectant) cleaner and deodorant (odor-counteractant) (odor neutralizer) designed for general cleaning, (and) (disinfecting,) (deodorizing,) (and controlling mold and mildew) on (of) hard, non-porous environmental surfaces. It cleans quickly, removing dirt, grime, mold, mildew, body oils and other common soils found in hospitals, nursing homes, schools and colleges, (day care centers), (medical) offices, funeral homes, veterinary clinics, pet shops, (equine farms), animal life science laboratories, hotels, motels, public areas and restrooms, foodservice establishments (restaurants) and federally inspected meat and poultry establishments (food [processing] plants).

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

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.

Malodor(s) (Activity) (Odor) (Counteractancy) – eliminates (destroys) odors and odor-causing bacteria in restroom areas, behind and under sinks and counters, and storage areas (and other places where bacterial growth can cause malodors).

This product is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities.

This product is a concentrated Hospital Use disinfectant that is effective against a broad spectrum of bacteria, is virucidal\*, and eliminates odor causing bacteria when used as directed.

This product delivers non-acid, disinfection performance.

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

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

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

This product 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).

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.

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

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

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

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

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

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

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

Great for use (on) (in) the (kitchen), (bathroom), (floors) and other household areas. Removes (eliminates) odors. Deodorizes. Safe for most surfaces.

Safe for most surfaces. For a cleaner, fresher household. Removes stains. Removes dirt. Non-staining. Clear formula.

Disinfects (and Sanitizes) kitchen surfaces (bathroom surfaces and floors). Sanitizes kitchen surfaces (bathroom surfaces and floors). Kills household bacteria.

Antibacterial.

Hospital Use Disinfectant. Institutional Disinfectant.

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

This formulation is for use in:

- Hospitals, medical and dental offices and clinics, healthcare facilities, nursing homes, physician offices, operating rooms, isolation wards, and medical research facilities.
- Patient care rooms & facilities, recovery rooms, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, police cars.
- Day care centers and nurseries, sick rooms.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms, shower and bath areas.
- Institutions, schools, colleges, commercial and industrial institutions churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, exercise equipment, gyms, gymnasiums.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities.
- Heath clubs, spas, tanning salons, tanning spas/beds, tanning equipment, 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
- Campgrounds, playgrounds, playground equipment, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals.
- Homes (households).
- Kitchens, bathrooms, and other household areas.
- Restaurants, restaurants and bars, bars, kitchens, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments; coffee shops, donut shops, bagel stores, pizza parlors, liquor stores.
- Crime scenes and funeral homes, morgues, mortuaries, burial vaults, mausoleums, autopsy rooms.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Cruise lines, airline terminals, airports, shipping terminals, public transportation, transportation terminals.
- Food processing plants, USDA inspected food-processing facilities, food storage areas, federally inspected meat and poultry plants, egg processing plants, farms, equine farms, poultry farms, turkey farms, dairy farms, hog farms, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants.
- Processing facilities for Fish, Milk, Citrus, Wine, Fruit, Vegetable, Ice Cream, and Potatoes, and beverage plants.
- Hotels and motels, dormitories.
- Veterinary clinics, animal life science laboratories, animal laboratories, zoos, equine farms, tack shops, pet shops, kennels, dog/cat animal kennels, breeding establishments, grooming establishments, pet animal quarters, and other animal care facilities.
- Funeral homes.
- Commercial florist and flower shops.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.

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

- Counters (countertops), countertop laminates, sinks (bathroom, kitchen), tub surfaces, exterior surfaces of appliances, microwave ovens and refrigerators.

- Glass, laminated surfaces, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble, plastic (such as polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl.
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery.
- Foundations, steps, plumbing fixtures, finished baseboards and window sills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Conductive flooring, floors.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of: air conditioning and refrigeration equipment and heat pumps.
- Large inflatable non-porous plastic and rubber structures: animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.
- Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wood 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.
- Bed railings, bedpans, cervical collars, CPR training mannequins, curing lights, neck braces, oxygen hoods, slit lamps, spine backboards, stretchers and unit stools.
- External lenses vision correction (not for use on contact lenses), light lens covers, optical instruments/implements.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, porcelain tile and restroom fixtures, bathroom fixtures.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring.

Use to clean and disinfect non-medical (i.e. industrial and fire fighting) respirators in industrial, commercial and institutional premises.

For use in households.

This product contains no phosphorus.

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

This product can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

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

This product improves labor results by effectively controlling odors.



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

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

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

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

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

Use this product on finished floors, high speed burnished floors, conductive flooring, washable walls, tables, chairs, bathroom bowls, sinks, basins, shower stalls, tubs, glazed tiles, toilet, countertops, stove tops, exterior surfaces of appliances and refrigerators, cabinets, garbage cans, outdoor furniture(except cushions and wood frames), desks, telephones, door knobs and handles, and glass surfaces including windows and mirrors.

Use (on) (to clean and disinfect) non-porous athletic mats, wrestling mats, gymnastic mats, exercise equipment and training tables.

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

Use this product to clean, sanitize and disinfectant non-porous ambulance equipment and surfaces by rinsing all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Precaution: Cleaning at the recommended 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.)

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

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

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

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

This product is designed for use on (Use daily on) (the following) (hard, non-porous environmental surfaces): vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, aluminum, laminated surfaces and baked enamel surfaces associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, sinks, shower rooms and locker rooms (areas) – any washable (food and non-food contact) surface where disinfection is required. This product's non-dulling formula eliminates the time and labor normally

required for rinsing. A potable water rinse is required for food contact surfaces. Do not use on glasses, dishes and utensils.

- Concentrate (Concentrated).
- Neutral (Neutral pH).
- Disinfects (Disinfectant).
- Cleans (Cleaner).
- Deodorized (Deodorizer).

A multi-purpose, neutral pH, germicidal detergent and deodorant effective in hard water up to 400 ppm (calculated as CaCO<sub>3</sub>) in the presence of a moderate amount of soil (5% organic serum) according to the AOAC Use-dilution Test. Disinfects, cleans, and deodorizes in one labor-saving step.

This product is for Poultry Premise Sanitation (Hatcheries)

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

This product is for Swine Premise Sanitation:

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

This product is effective against Canine Parvovirus at 1 oz. per gallon. Follow the directions under Animal Housing Facilities.

Disinfects, cleans, and deodorizes the following hard, non-porous inanimate surfaces: floors, walls, (non-medical) metal surfaces, (non-medical) stainless steel surfaces, glazed porcelain, plastic surfaces (such as polypropylene, polystyrene, etc.).

For use in:

Federally inspected meat and poultry plants on all hard, non-porous surfaces in inedible product processing areas, non-processing areas and/or exterior areas. All surfaces must be thoroughly rinsed with potable water.

Federally inspected meat and poultry plants as a floor and wall cleaner for use in all departments. Food products and packaging material must be removed from the room or carefully protected. All surfaces must be thoroughly rinsed with potable water.

Federally inspected meat and poultry plants as a disinfectant agent for use in departments. Food products and packaging material must be removed from the room or carefully protected. Use product in accordance with its label. All surfaces must be thoroughly rinsed with potable water.

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

This product meets AOAC efficacy standards for hard surface sanitizers.

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

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

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

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

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

## ORGANISM GUIDE

**Disinfectant Performance:** For water hardness up to 400 ppm add ¼ fluid ounce per gallon (2 milliliters per liter) of water (1:512) to disinfect hard non-porous surfaces OR mix a 1 fluid ounce packet with 4 gallons of water. Treated surfaces must remain wet for 10 minutes. Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 400 ppm hard water, 5% serum load and 10 minutes contact time, this product is effective against the following organisms on hard non-porous inanimate surfaces:

(Or)

This product is Bactericidal according to the AOAC Use Dilution Test method, Virucidal\* according to the virucidal qualification on hard inanimate surfaces, Fungicidal according to the AOAC fungicidal test, modified in the presence of 5% organic serum against:

<i>Acinetobacter baumannii</i> ATCC 19003	<i>Salmonella choleraesuis</i> ATCC 10708
<i>Acinetobacter lwoffii</i> ATCC 9957	<i>Salmonella choleraesuis</i> ATCC 4931 (a.k.a. <i>Salmonella enteritidis</i> )
<i>Acinetobacter lwoffii</i> ATCC 15309	<i>Salmonella choleraesuis</i> serotype pullorum ATCC 19945
<i>Bordetella bronchiseptica</i> ATCC 10580	<i>Salmonella typhi</i> ATCC 6539
<i>Chlamydia psittaci</i> ATCC VR-125	<i>Salmonella typhimurium</i> ATCC 23564
<i>Citrobacter freundii</i> ATCC 8090	<i>Serratia marcescens</i> ATCC 9103
<i>Clostridium difficile</i> ATCC 9689	<i>Serratia marcescens</i> ATCC 14756
<i>Cytomegalovirus</i>	<i>Shigella flexneri</i> ATCC 9380
<i>Enterobacter agglomerans</i> ATCC 27155	<i>Shigella flexneri</i> ATCC 12022
<i>Enterobacter aerogenes</i> ATCC 13048	<i>Shigella sonnei</i> ATCC 25931
<i>Enterobacter cloacae</i> ATCC 13047	<i>Staphylococcus aureus</i> ATCC 6538
<i>Escherichia coli</i> ATCC 11229	<i>Staphylococcus aureus</i> ATCC 25923
<i>Enterococcus faecalis</i> ATCC 19433	<i>Staphylococcus aureus</i> sub species aureus ATCC 33586
<i>Enterococcus hirae</i> ATCC 10541	<i>Staphylococcus aureus</i> ATCC 14154
<i>Escherichia coli</i> Tetracycline Resistant ATCC 47041	Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) ATCC 33592
<i>Fusobacterium necrophorum</i> ATCC 27852	<i>Staphylococcus epidermidis</i> ATCC 14990
<i>Klebsiella oxytoca</i> ATCC 13182	<i>Staphylococcus haemolyticus</i> ATCC 29970
<i>Klebsiella pneumoniae</i> ATCC 13883	Antibiotic resistant <i>Staphylococcus epidermidis</i> ATCC 51625
<i>Listeria monocytogenes</i> ATCC 19117	<i>Streptococcus pyogenes</i> ATCC 19615
<i>Micrococcus luteus</i> ATCC 14452	<i>Streptococcus mutans</i> ATCC 25175
<i>Micrococcus luteus</i> ATCC 4698	<i>Streptococcus agalactiae</i> ATCC 13813
<i>Pasturella multocida</i> ATCC 12947	<i>Yersinia enterocolitica</i> ATCC 23715
<i>Proteus vulgaris</i> ATCC 9920	
<i>Proteus vulgaris</i> ATCC 13315	
<i>Pseudomonas aeruginosa</i> ATCC 15442	
<i>Pseudomonas cepacia</i> ATCC 25416	
<i>Salmonella choleraesuis</i> ATCC 23564	
Tetracycline Resistant <i>Escherichia coli</i> ATCC 47041	
<i>Vibrio cholera</i> ATCC 11623	
Tetracycline Resistant <i>Pseudomonas aeruginosa</i> ATCC 27853	
<i>Streptococcus pneumoniae</i> Penicillin Resistant ATCC 51915	
Vancomycin Resistant <i>Enterococcus faecalis</i> (VRE) ATCC 51299	
Vancomycin Intermediate Resistant <i>Staphylococcus aureus</i> (VISA) ATCC 5836	

**Virucidal Performance:** At ¼ ounce per gallon (660 ppm quat active) use level, this product was evaluated modified in the presence of 400 ppm hard water with a 10 minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Hantavirus	Human Coronavirus
Hepatitis B Virus	Human Immunodeficiency Virus type 1 (HIV 1)
Hepatitis C Virus	Influenza A virus ATCC VR-544

Herpes Simplex Virus Type 1 ATCC VR-773      Respiratory syncytial virus ATCC VR-26  
Herpes Simplex Virus Type 2 ATCC VR-734

**Animal Premise Virucidal Performance:** At ¼ ounce per gallon (660 ppm quat active) use level, this product was evaluated with a 10 minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian Infectious Bronchitis virus Beaudette IB42	
Avian Influenza A (H3N2) virus (Avian Reassortant) ATCC VR-2072	
Canine Coronavirus	
Canine Parvovirus (CPV) at 1 oz. per gallon	Pseudorabies virus ATCC VR-135
Canine Distemper virus ATCC VR-128	Porcine Parvovirus (1 oz. per gallon)
Feline Picornavirus ATCC VR-649	Transmissible Gastroenteritis virus
Feline Picornavirus ATCC VR-649	Vaccinia virus ATCC VR-119
Infectious Bovine Rhinotracheitis virus ATCC VR-188	

**Fungicidal Performance:** When used as directed at a 1:512 dilution (¼ fluid ounce per gallon of water) (or equivalent use dilution) and a 10 minute contact time, this product is highly effective against the following:

Aspergillus niger (ATCC 16404)	
<i>Candida albicans</i> ATCC#10231	<i>Trichophyton mentagrophytes</i> ATCC#9533

**Non-Food Contact Sanitizing Performance:** At ¼ ounce per gallon use-level, this product is an effective one-step sanitizer against the following on hard non-porous environmental surfaces:

<i>Klebsiella pneumoniae</i>	<i>Staphylococcus aureus</i>
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### Dilution Guide:

For Hospital or Medical Environment claims	¼ oz/1 gal. water
For General or Broad Spectrum claims	¼ oz/1 gal. water
For Fungistatic claims	¼ oz/1 gal. water
For Virucidal claims	¼ oz/1 gal. water
For Animal Virucidal claims	¼ oz/1 gal. water
For Non-Food Contact Sanitizing claims	¼ oz/1 gal. water

## 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 surface 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 use the following sentence if not used on metal or stainless steel surfaces in medical premises.)

Not for use on medical devices or medical equipment surfaces.

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

## DISINFECTION

### PREPARATION OF USE SOLUTION

For water hardness up to 400 ppm add ¼ ounce per gallon (2 milliliters per liter) of water (1:512) (or equivalent use dilution) to disinfect hard, non-porous surfaces OR mix a 1 ounce packet with 4 gallons of water. Treated surfaces must remain wet for 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.

Apply use solution to hard, inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer.

(Or)

This product can be applied by mop, sponge, cloth, paper towel, (hand pump) coarse trigger sprayer, auto scrubber or foam gun (device). Change cloth, sponge or towels frequently to avoid redeposition of soil. For disinfection, all surfaces must remain wet for 10 minutes.

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.

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

Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution at least daily or when use solution becomes diluted or soiled.

Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use this product to clean or disinfect utensils, glassware or dishes.

### HOSPITALS, DENTAL OFFICES, NURSING HOMES AND OTHER HEALTH CARE FACILITIES

This product is a one-step (hospital-use) germicidal (disinfectant) cleaner and deodorant (odor-counteractant) (odor neutralizer) designed for general cleaning, (and) disinfecting, (deodorizing) (and controlling mold and mildew on) (of) hard, non-porous environmental surfaces. This product cleans quickly by removing dirt, grime, mold, mildew, food residue, body oils, dead skin, blood and other organic matter commonly found in hospitals (and) (in health care facilities) (on medical surfaces). It (also) eliminates odors leaving (restroom) surfaces smelling clean and fresh. Use where odors are a problem.

This product cleans, disinfects and deodorizes (hard, non-porous environmental hospital (medical) surfaces) in one step (with no rinsing required). Its non-abrasive formula is designed for use on (Use daily on) (the following) hard, non-porous environmental surfaces: vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, laminated surfaces and baked enamel surfaces associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, sinks found in (health care facilities [hospitals]), patient rooms, operating rooms, ICU areas, shower rooms, and locker rooms. It can also be used to preclean and disinfect (hospital items: wheelchairs, [hospital] [patient] bed rails and linings, wash basins, bed pans, medical equipment surfaces) any washable (food and non-food contact) surface (where disinfection is required). A potable water rinse is required when disinfecting food contact surfaces. Do not use on glasses, dishes and utensils.

This product is a Hospital Disinfectant at ¼ ounce per gallon (or equivalent use dilution) (2 milliliters per liter), (1:512 dilution), modified in the presence of 400 ppm hard water with a 10 minute contact time.

(Or)

When used as directed at a 1:512 dilution (¼ ounce per gallon of water) (or equivalent use dilution) (2 mL/L), this product contains 660 ppm of active quaternary germicide making it highly effective against a wide variety (broad spectrum) of pathogenic microorganisms (including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew).

### Hepatitis Virus

At ¼ ounce of this product per gallon of water (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% serum this product was proven to be effective against (Duck) Hepatitis B Virus and Hepatitis C Virus with a contact time of 10 minutes. *(This statement is not for use in California)*

(OR)

At ¼ ounce per gallon (or equivalent use dilution) (660 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (Duck) Hepatitis Virus (HBV) and Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

At ½ ounce per gallon of water in the presence of 400 ppm of hardness for a 10 minutes contact time, this product was found to be effective against Hantavirus.

(OR)

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

**\*KILLS HIV, HBV AND HCV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling on inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1, (HIV-1) (associated with AIDS), (Duck) Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV).

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

**Personal Protection:** Clean up should always be done wearing protective latex gloves, gowns, masks and eye protection.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

**Contact Time:** Leave surface wet for 10 minutes with ¼ ounce per gallon of water (2 milliliters per liter) use solution (or equivalent use dilution).

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

**General Disinfectant-Non-medical (schools, restaurants, food services, dairies, farm, beverage and food processing plants):** Add ¼ ounce of this product to gallon of water. This product is not to be used as a disinfectant on glassware, dishes and eating utensils.

**Effective against Canine Parvovirus (CPV) and Porcine Parvovirus:** At 1 ounce per gallon of water or equivalent dilution this product was evaluated in the presence of 5% serum with a 10 minute contact time and found to be effective against Canine Parvovirus (CPV) and Porcine Parvovirus on hard, non-porous environmental surfaces.

**Mold and Mildew Control:** To control the growth of mold and mildew and their odors, use at a rate of 1:512 (¼ ounce per gallon of water) (or equivalent use dilution) on hard, non-porous surfaces. Apply use solution to thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears. Allow surface to remain wet for 10 minutes.

**To Kill Fungi:** Pre-clean heavily soiled areas. Apply at a rate of 1:512 (¼ ounce per gallon of water) (or equivalent use dilution) to hard, non-porous environmental surfaces. Allow surface to remain wet for ten (10) minutes. Wipe surfaces (and let air dry).

*(Or use alternate Fungicidal directions.)*

**FUNGICIDAL DIRECTIONS:** For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Apply to hard, non-porous surfaces at a 1:512 dilution (¼ ounce per gallon of water) (or equivalent use dilution), thoroughly wetting all surfaces for a contact time of at least 10 minutes. Wipe surfaces or let air dry.

*(OR)*

**Fungicidal Activity:** At ½ ounce per gallon use-level (or equivalent use dilution) this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) on inanimate surfaces in locker rooms, dressing rooms, shower and bath areas and exercise facilities.

**CLEANING AND DISINFECTION:** For all general cleaning and disinfection, use ¼ ounce of this product per gallon of water (1:512 solution) (or equivalent use dilution). Apply this product using a cloth, mop or pressure sprayer so as to thoroughly wet surface to be cleaned (disinfected). Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a precleaning step is required. Prepare a fresh solution at least daily or when solution becomes visibly dirty or diluted.

**For Use as a (General) Cleaner and or Deodorizer:** Apply use solution to surfaces. Wipe surfaces (and let air dry).

For heavy-duty use, add 1 ounce per gallon (8 milliliters per liter) of water (1:128) to clean hard, non-porous surfaces.

**For Use on Finished Floors:** To limit gloss reduction, use ¼ ounce of this product per gallon of water. Apply with a damp mop or auto scrubber. Allow to air dry.

**For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment:** It is especially important to preclean for the product to perform properly. Then, apply a wetting concentration of 0.875 ounces of this product per gallon of water (or equivalent use dilution) (2,300 ppm quat active).

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

**To Control the Growth of Mold and Mildew on Non-Porous Athletic Equipment:** For use on wrestling and gymnastic mats, athletic mats, exercise equipment, 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 ¼ ounce per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment if heavily soiled to ensure proper surface contact. Add ¼ ounce of this product to one gallon of water (or equivalent use dilution). Gently mix for uniform solution. Apply solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces should remain wet for ten (10) minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134).

**Special Instructions for Cleaning and Disinfecting areas which may be infested with Hantavirus**

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

All potential infective waste material (including respirator filter) from cleanup operations that cannot be burned or deep buried on site must be double bagged in appropriate plastic bags. The bagged material must then be labeled as infectious (if it is to be transported) and disposed of in accordance with local requirements for infectious waster.

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

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

**PUBLIC RESTROOMS**

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

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

**NON-ACID BOWL (& BATHROOM) DISINFECTANT CLEANER**

This product is a (concentrated) non-acid (bowl and) bathroom cleaner, which cleans, disinfects and deodorizes in one easy step. It cleans, disinfects and deodorizes surfaces by killing many odor-causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use (Use daily) on ([hard, non-porous environmental]

restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms.

Remove gross filth prior to disinfection.

**From Concentrate:** Add 3/16 ounce to the toilet bowl (¾ gallon water) (or equivalent use dilution) and mix. Brush thoroughly over exposed surfaces and under the rim. Allow to stand for 10 minutes and flush.

*(Or use alternate Concentrate Use directions.)*

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

1. Pre-clean heavily soiled areas.
2. Add 3/16 ounce into toilet bowl (¾ gallon of water) (or equivalent use dilution) for a 1:512 dilution.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

**From Use Solution:** Pre-clean. Empty toilet bowl or urinal and apply ¼ ounce per gallon (2 milliliters per liter) use solution (or equivalent use dilution) to exposed surfaces, including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush. For sprayer applications, use a coarse spray device and swab all areas after spraying.

*(Or use alternate Use-Dilution directions.)*

**For Use as a Non-Acid Bowl Cleaner/Disinfectant in Toilet Bowls (and Urinals) from Use-Dilution:**

1. Pre-clean heavily soiled areas.
2. Empty toilet bowls by forcing water through the trap. Apply Use Solution to exposed surfaces in toilet bowls and urinals.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

*(Or use alternate Use-Dilution directions)*

**Toilet Bowls/Urinals:** Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting, Clean by applying use-solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first pre-clean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in 3 oz. of the use dilution. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush.

**For Heavy Duty Cleaning:** Pre-clean. Empty toilet bowl or urinal and apply 1 ounce per gallon (8 milliliters per liter) use solution (or equivalent use dilution) to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush. For sprayer application use a coarse spray device and swab all areas after spraying.

**Glass Cleaning/Deodorizing Directions:** Add 1/8 to ½ ounce per gallon (1-4 milliliters per liter) (or equivalent use dilution) of water to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface rub with sponge or cloth. Do not breathe spray.

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

1. Pre-clean heavily soiled areas.

2. Apply ¼ oz. per gallon of water solution to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for ten (10) minutes.

**Special instructions for foam guns:** Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. (**Note:** See foam gun instructions for more information. Make sure setting is set for a 1:512 dilution.) Once in place, squeeze the handle to disperse foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes. (*Foam guns not for use in California.*)

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

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

1. Pre-clean heavily soiled areas.
2. Apply use solution to hard, non-porous environmental surfaces.
3. To disinfect, all surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces (and let air dry).

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

#### **FOOD SERVICE**

This product cleans by removing dirt, grime and food soils in food preparation and processing areas. Its non-abrasive formula will not harm (scratch) surfaces. It cleans, disinfects and eliminates odors leaving surfaces smelling clean and fresh. Use where odors are a problem.

Its non-abrasive formula is designed for use on (Use daily on) (hard, non-porous environmental surfaces): vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, aluminum, stainless steel, brass, copper, laminated surfaces and baked enamel surfaces (associated with floors, walls, ceiling, tables, chairs, countertops, fixtures, glazed tile toilets, (toilet bowls), urinals, sinks found in food establishments, (restaurants), (commercial kitchens) & restrooms. A potable water rinse is required for food contact surfaces. Do not use this product to clean or disinfect utensils, glassware, dishes or interior surfaces of appliances.

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

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

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

1. Before using this product in food processing areas, food products and packaging materials must be removed from the room or carefully protected.
2. Apply Use Solution evenly over surface using a cloth, mop, sponge or coarse spray device. Be sure to wet all surfaces thoroughly. Do not breathe spray.
3. Allow product to remain on surface for ten (10) minutes.
4. Wipe with clean cloth, sponge or paper towel.
5. For heavily soiled areas, thoroughly clean surface prior to disinfecting.

6. When disinfecting food contact surfaces used for food preparation, rinse surfaces thoroughly with potable water. This product must not be used to clean the following surfaces: utensils, glassware and dishes.

**To Disinfect Food-Processing and Tobacco Premises:** Before using this product, food products and packaging materials must be removed from area or carefully protected. (For) floors, walls and storage areas, add ¼ ounce of this product to 1 gallon of water (or equivalent use dilution) (660 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 application, use a coarse spray. Allow to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**To Disinfect Food Service Establishment Food Contact Surfaces:** (For) countertops, appliances, and tables. Before using this product food products and packaging materials must be removed from area or carefully protected. Add ¼ ounce of this product to gallon of water (or equivalent use dilution) (660 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 application use a coarse spray. Allow to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water.

**For Use on Non-Food Contact Surfaces as a General Disinfectant in the Brewery Industry:** Use ¼ ounce of this product per gallon (or equivalent use dilution) (660 ppm active quat) of water. Follow the general disinfectant directions above.

**Directions for Fogging:** (For use in) dairies, beverage and food processing plants. To treat hard, non-porous room surfaces as an adjunct to acceptable manual cleaning and disinfecting as described above. 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 0.45 ounce of product to 1 gallon of water (1,200 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 should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

#### **ANIMAL HOUSING FACILITIES**

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

This product can be used to disinfect, clean and deodorize terrarium and small animal cages, hot rock, substrate and cage furniture (plastic terrarium ornaments, driftwood, heat caves and water dishes).

This product cleans, disinfects and deodorizes (hard, non-porous environmental surfaces) in one step. Its non-abrasive formula is designed for use on (Use daily on) (Use daily to clean and disinfect) (hard, non-porous surfaces): plated or stainless steel, aluminum, chrome, glazed porcelain, glazed tile, laminated surfaces (associated with

floors, walls, countertops, cages, kennels, animal equipment) found in (barns, pens and stalls) animal housing facilities.

**Disinfection/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels Directions:** Remove all animals and feeds from premises, vehicles (trucks and cars), and enclosures (coops, crates and kennels). 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 ¼ ounce of this product per gallon of water (or equivalent use dilution) (660 ppm active quat). Saturate surfaces with the recommended disinfecting solution for 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 animals 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.

**HATCHERIES:** For disinfection/virucide, use ¼ ounce of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For spray applications use a coarse spray device. Use ¼ ounce of this product per gallon of water for disinfection/virucide. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**DRESSING PLANT AND RENDERING PLANT DISINFECTANT/VIRUCIDE DIRECTIONS (RENDERING PLANT/DRESSING PLANT DISINFECTANT/VIRUCIDE DIRECTIONS):** Cover or remove all food packaging material before disinfection. Remove gross soils. Apply to walls and floors in poultry and animal dressing plants with a solution of ¼ ounce of this product per gallon of water (or equivalent use dilution) (660 ppm active quat). Surfaces must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Rinse all surfaces which contact food with potable water before reuse.

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

(OR)

#### **FARM PREMISE DISINFECTION DIRECTIONS**

**For Use in Equine, Dairy and Hog Farms:**



1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, (stalls), chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting or virucidal solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

**For Use in Livestock, Poultry and Turkey Houses:**

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, (stalls), chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting or virucidal solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

**For Use for Treatment of Animal Housing Facilities:**

1. Remove all animals and feeds from areas being treated.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap and detergent and rinse with water.
5. Apply fresh use solution to floors, walls, cages and other washable hard, non-porous environmental surfaces. For smaller surfaces, use a coarse trigger spray bottle to spray all surfaces with solution until wet. To disinfect, all surfaces must remain wet for ten (10) minutes.
6. Ventilate buildings and other closed spaces.
7. Do not house animals or re-employ equipment until product has dried.
8. For disinfection of feed racks, troughs, automatic feeders, fountains and watering appliances scrub with use-solution, let stand ten (10) minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers using in removing litter and manure. Then thoroughly scrub all treated surfaces with soap and detergent and rinse with potable water before reuse.

**Terrarium and Small Animal Cage and Cage Furniture Disinfection:** Animals frequently defecate on hot rocks and other cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly this product can eliminate these high bacteria/ammonia levels in your cage and on your cage furniture items.

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable, hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (¼ ounce per gallon of water or equivalent use dilution) (660 ppm active quat) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.
4. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning 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.

**Veterinary Clinics/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and grooming Establishment/Tack Shops Disinfection**

**Directions:** For cleaning and disinfecting the following hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of ¼ ounce per gallon (660 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers using in removing litter and manure. Ventilate buildings & other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment that dispenses food or water with soap or detergent, and rinse with potable water before reuse.

**For Use To Clean and Disinfect Barber and Beauty/Manicure Instruments and**

**Tools:**

1. Pre-clean heavily soiled items.
2. Completely immerse pre-cleaned combs, scissors, clipper blades, razors, manicure implements and other non-porous instruments in the use solution (¼ ounce per gallon) (or equivalent use dilution) so that surfaces remain wet for ten (10) minutes.
3. Rinse surfaces thoroughly and let air dry before reuse.
4. Change solution at least daily or sooner if visibly dirty.

(OR)

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**Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions:** Immerse pre-cleaned barber/salon tools, such as combs, brushes, rollers, razors, clipper(s) and trimmer blades, tweezers, manicure/pedicure tools and scissors and other salon instruments and tools, in a ¼ ounce per gallon solution of the product (or equivalent use dilution). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared at least daily or more often if solution becomes cloudy or soiled.

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

**Disinfection of Hard, Non-Porous Surfaces in Footbaths:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of ¼ ounce per gallon of water (or equivalent use dilution) 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.

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

**Cleaning of Body Surfaces and Body Orifices of Human Remains:** This product removes secretions, soil and blood, along with their accompanying malodor, from the surfaces and orifices of human remains. Using a sponge or washcloth, bathe the entire body with a Use Solution of ¼ ounce per gallon of water (or equivalent use dilution). A soft hand brush may be employed on surfaces other than the face. Allow a 10 minute contact time for optimal results. Prepare a fresh solution for each (cadaver) remains or when solution becomes visibly dirty or diluted.

**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 ¼ ounce per gallon of water (or equivalent use dilution) (660 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visible dirty or discolored.

**For Disinfecting Hard, Non-Porous Bath and Therapy Equipment:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add ¼ ounce of this product for each gallon of water (or equivalent use dilution) (660 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly

disinfected, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse.

**Disinfection of Hard, Non-Porous Surfaces in Whirlpool Units:** After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add ¼ ounce of this product for each gallon of (or equivalent use dilution) (660 ppm active quat) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

**Citrus Canker Control (Not Applicable in California):** For prevention of Citrus Canker Disease through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker) at 2100 ppm active quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution of 0.8 ounces per gallon of water (2100 ppm active quat). Treatment can be applied to trucks, attached trailers, field harvesting equipment, including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using maximum rate 2100 ppm quat. For sprayer applications, use a coarse spray device. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing should be either thoroughly rinsed or laundered before reuse. Footwear should be rinsed before reuse.

**COMMERCIAL FLORIST USE DIRECTIONS:** To clean, disinfect and deodorize hard non-porous surfaces in one step, prepare use solution by adding (mixing) ¼ ounce per gallon of water (1:512) (or equivalent use dilution). For heavy-duty use, add (mix) 1 ounce per gallon of water (or equivalent use dilution).

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 when use solution becomes visibly dirty.

#### SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

**Preparation of sanitizer use solution:** (For) floors, walls, tables etc. Apply ¼ ounce per gallon sanitizer use solution to pre-cleaned, hard, non-porous surfaces with a cloth, mop, sponge, sprayer or by immersion.

For sprayer applications, use a coarse 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.

Treated surfaces must remain wet for 3 minutes. Then wipe with sponge, mop or cloth or allow to air dry.

**SHOE 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 should be placed at all entrances



to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a ¼ ounce of this product per gallon of water (or equivalent use dilution) solution for 3 minutes prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

**SHOE FOAM DIRECTIONS:** To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants. Apply a foam layer approximately 0.5 to 2 inches thick made from a solution of ¼ - 0.5 ounce per gallon of water (or equivalent use dilution) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacture of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 3 minutes prior to entering area. Foam area should be washed and replaced at least daily or when it appears dirty.

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

**ENTRYWAY SANITIZING SYSTEMS:** To prevent cross contamination from area to area, set the system to deliver (¼ - 0.5 oz. per gallon of water) of sanitizing solution. The (spray) (foam) should cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

**SALON/BARBER INSTRUMENTS AND TOOLS SANITIZER DIRECTIONS:** Pre-clean soiled instruments and tools. Completely immerse water safe non-porous instruments and tools in a solution of ¼ ounce per gallon (or equivalent use dilution) of water for at least 3 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.

**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 ¼ ounce of this product for gallon of (or equivalent use dilution) 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 3 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.

**Humidifier Directions (Not applicable in CA):** Thoroughly clean water tank and filters. Add ¼ ounce of this product per gallon of refill water.

*(OR)*

**Humidifier Bacteria/Algae Treatment (Not applicable in CA):** 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 ¼ ounce of this product. When you refill the tank, add ¼ ounce of this product for every gallon of water added.

Not for use in heat or atomizing type humidifiers.

**WATER/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, and frame lumber, tackless

strip and paneling. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

**Sewer backup & river flooding:** During mitigation procedures, dilute ¼ to 0.5 ounce of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

**Carpets, Carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling:** For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute ¼ to 0.5 ounce of the product per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

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

**For portable extraction units:** Mix ¼ ounce of this product per gallon of water.

**For truck mounted extraction machines:** Mix 1.125 ounces of the product per gallon of water and meter at 4 gallons per hour.

**For rotary floor machines:** Mix ¼ ounce of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

**CARPET DEODORIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE (Not Applicable in California)**

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

Vacuum carpet thoroughly prior to application. Mix ¼ 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 2.625 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

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

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

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

**SMOKE DAMAGE RESTORATION** (Not Applicable in California): Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

#### **SANITIZING HATCHERY ROOMS USING FOGGING DEVICES**

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 0.625 ounces of this product to 2.5 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 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 4.75 ounces of this product to 120 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breath this fog. It is acceptable to fog setters and hatchers with a 0.55 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 complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

#### **FOOD PROCESSING PLANTS USING FOGGING DEVICES**

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 0.45 ounce of product to 1 gallon of water (1,200 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 should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

#### **MUSHROOM FARM INDUSTRY USE DIRECTIONS**

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

**Disinfection:** Use ¼ ounce of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces should be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use.

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

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

#### **REFILLS**

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

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

MIX EACH PACKET WITH 4 GALLONS OF WATER

**MAQUAT<sup>®</sup> 512-NHQ**

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

NET CONTENTS: 1 FLUID OZ.

**ACTIVE INGREDIENTS:**

Didecyl Dimethyl Ammonium Chloride ..... 20.28%  
n-Alkyl (C14 50%, C12 40%, C16 10%)  
dimethyl benzyl ammonium chloride ..... 13.52%

**INERT INGREDIENTS:** ..... 66.20%

**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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