

10324-173

06/07/2007

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number:

10324-173

Date of Issuance:

JUN 7 2007

Term of Issuance:

Conditional

Name of Pesticide Product:

Maquat 64-X

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

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

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(a) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Revise the EPA Registration Number to read, "EPA Reg. No. 10324-173".

Signature of Approving Official:

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

Date:

JUN 7 2007

Table with columns for SYMBOL, SURNAME, DATE and multiple empty columns for CONCURRENCES. Handwritten entries include 'G-Job', '7510P', and '6/6/07'.

b. Revise the Precautionary Statements on page one to include: "...Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin..."

c. Revise the statement in the right column of page three which begins: "External lenses vision correction..." to read as follows: "External lenses vision correction including eye glasses, (not for use on contact lenses), protective eyewear, goggles, light lens covers, optical instruments/implements."

d. Revise the section in the right column of page five which begins: "Escherichia coli (E. coli) and Staphylococcus aureus..." to end as follows: "...A potable water rinse is required after use as a disinfectant on food contact surfaces."

e. Revise the claim in the right column on page five which begins: "This product may be applied through..." by deleting "automatic washing systems" from the list of application methods because the directions do not support the use of this type of application system.

f. Revise the claim in the right column on page five which begins: "This product has been cleared in 40 CFR..." to read as follows: "This product has been cleared in 40 CFR 180.940 (a) and (c) for use on food processing equipment and utensils at a concentration of 200-400 ppm active."

g. Revise the section in the left column of page six to read as follows: "Regular, effective cleaning and sanitizing of equipment, utensils and work or dining surfaces which could harbor food poisoning microorganisms..."

h. Revise the section in the left column of page six to read as follows: "Where equipment and utensils are used for preparation of foods on a continuous or production line basis...equipment must be washed, rinsed and sanitized at intervals..." such that this section is in agreement with PR Notice 2000-5.

i. Revise the list of viruses on page six, right column by deleting Transmissible Gastroenteritis. This is a porcine pathogen and should be placed in the animal premise section on page eleven in the section for use of the product at 3 ounces per gallon.

j. Revise the "Cleaning and Disinfection" directions at the top of page seven by placing the following statement such that it is the first statement in this section: "For heavily soiled areas, a pre-cleaning step is required." Revise the next statement to read: "For one step cleaning and disinfection use 2 ounces..."

k. Revise the directions for avian influenza in the left column of page seven to clearly indicate the appropriate rate as follows: "For Disinfecting Hard, Non-Porous Surfaces Against Avian Influenza: For all use sites the directions for use for hospital disinfection must be followed using a rate of 3 ounces per gallon."

l. Revise the heading on page seven by changing "Hospital/Medical Use Directions" to read: "Institutional Use" ~~CONSUMER USE~~ Provide clarity to the users since these

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directions include treatment of other sites which fall into the institutional category including Nursing Homes and Health Care Institutions.

m. Revise the "Contact Time" directions on page seven to include rate information since this product is effective against HIV, HCV and HBV at different rates. Revise to state: "Contact Time: Leave surfaces wet for 2 minutes with 2 ounces per gallon solution for HIV and 10 minutes with 3 ounces per gallon solution for HBV and HCV and other viruses and bacteria listed on the label."

n. Revise the heading on page eight by changing "Non-Medical/Non-Food Contact General Use Directions" to read: "Commercial/Industrial Use". This will provide clarity to the users since these directions include treatment of schools, use in barber shops, and commercial florists.

o. Revise the directions "For Schools, Industry and Non-Medical Institutional Uses" on page eight as follows by placing the following statement such that it is the first statement in this section: "For heavily soiled areas, a pre-cleaning step is required." Revise the next statement to read: "This product delivers cleaning and disinfection effectiveness..." This clarifies that this section includes disinfection directions.

p. Delete the directions "For use on non-food contact surfaces as a general disinfectant in the brewery industry" from page eight. This information is appropriately contained in the Food Premise Use Directions on page thirteen.

q. Correct the ppm level in the "Shoe Foam Directions" on page nine to be in agreement with the rate listed in this section as follows: "...2 to 3 ounces per gallon of water (or equivalent use dilution) (488-732 ppm active)..."

r. Correct the use rate in the "Entryway Sanitizing Systems" directions on page nine as follows: "...set the system to deliver (3 oz. per gallon of water) (732 ppm active)..."

s. Correct the ppm level in the directions "For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment" on page ten. Correct to read: "...7 ounces of this product per gallon of water (or equivalent use dilution) (1700 ppm quat active)."

t. Correct both sets of humidifier directions on page ten to be in agreement with the ppm level of the cited "me-too" label, 10324-63 as follows. "...Add 0.6 ounces of this product per 2 gallons of..." and "...For every 1 gallon of water in the humidifier tank add 0.3 ounce of this product. When refilling the tank, add 0.6 ounce of this product for every 2 gallons..."

u. Revise the following section on page ten: "Special Instructions for Cleaning Carpet Against Odor Causing Bacteria." Revise such that the use categories are in agreement with the sites you have listed: "...be used in industrial, institutional, commercial and residential areas such as..."

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v. Revise the section heading, "Household/Kitchen/Bath Use Directions," on page ten to read "*Restroom/Bathroom Use Directions*" because these directions are not limited to residential settings, but can be used to clean/disinfect restrooms in institutional, industrial, and commercial settings.

x. Revise the statement "Saturate surfaces with recommended disinfecting solution for a period of 10 minutes," located in the list of directions below in the "Animal Premise Use Directions" subsection on pages eleven and twelve. Delete "recommended" such that the statement is in agreement with PR Notice 2000-5, Mandatory Language. The following sets of directions require this revision:

Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Equine Quarters
Rendering Plants/Dressing Plants
For use in Equine, Dairy, and Hog Farms
Treatment of Animal Housing Facilities
Terrarium and Small Animal Cage Furniture Disinfection
Special Instructions for Inactivating Avian Influenza A

y. Revise the use solution rate under the "Sanitizing Hatchery Rooms using Fogging Devices" directions on page twelve to be in agreement with the me-too label, 10324-63, by stating "40 ounces per 1.5 gallons of water (7800 ppm)."

z. Revise the third statement under the "Disinfecting Potato Storage Area and Equipment" directions on page thirteen by deleting the phrase, "in that section" and state "*the Food Premise Use Directions*" section.

aa.) Revise the use dilution rate under "Food Processing Plants using Fogging Devices" directions on page thirteen to read "*5 ounces per 1 gallon of water*"

bb.) Revise the first statement under "Site Preparation" in the "Mushroom Farm Industry Use Directions" on page thirteen to be in agreement with PR Notice 2000-5 that requires mandatory language. Revise to state "The first step ... *must* be ...debris."

cc.) Revise the "For Food Processing Equipment and Utensils" directions heading on page 14 to read as follows: "*For Food Processing Equipment and Utensils in Food Processing Facilities.*"

dd.) Delete the 3rd step under "Water Softeners" on page fifteen because it is out of order and repetitive. This step is captured correctly under number 1.

ee.) The 3rd and 4th statements under the "Beverage Dispensing Equipment Sanitizer Directions" on page sixteen must be revised to comply with mandatory language (PR Notice 2000-5) by deleting "should" and stating "*must*."

ff.) The 2nd and 5th statements under "Sanitizing Egg Shells Intended for Food Directions" on page sixteen must be revised to comply with mandatory language (PR Notice 2000-5) by deleting "should" and stating "*must*."

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gg.) Revise the directions on page seventeen "For Sanitizing in Fisheries, Milk, Wine, Citrus, Potato, & Ice Cream Processing Plants" to read as follows:

"For use as a sanitizer on conveyor belts *follow the For Continuous Treatment of Meat and Poultry or Fruit and Vegetable Conveyors*" directions.

For directions to reduce or eliminate odors on the equipment in the processing area, follow the Food Processing Equipment directions.

Also, for directions for reducing bacteria associated with condensation on equipment and pipes, *follow directions for "Sanitary Filling Equipment Sanitizer Directions."*

- 3. Once complete, submit a storage stability/corrosion characteristics study for review.

General Comments

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



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

Enclosure: (Stamped Label)
7510P:T. Lantz:6/4/07:10324-173

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MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1600

EPA Reg. No. 10324-XXX

EPA Est. No. 10324-JL

MAQUA 64

Net Contents:

Batch No:

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

DANGER. KEEP OUT OF REACH OF CHILDREN. Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield or safety glasses and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

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

ENVIRONMENTAL HAZARD

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

PHYSICAL OR CHEMICAL HAZARDS

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

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

STORAGE AND DISPOSAL

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

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

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

CONTAINER DISPOSAL (Larger than 1 gal.): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or 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 and place in locked storage area. Keep from freezing. Do not contaminate water, food, or feed by storage or disposal. Small spills may be mopped up or flushed away with water or absorbed on some absorbent material. Wrap container and put in trash. Securely wrap original container in several layers of newspaper and discard in trash.

DETERGENT/DISINFECTANT

Cleaner, Disinfectant, Detergent, Fungicide (against Pathogenic fungi), Deodorizer, Sanitizer, Virucide*, Mildewstat (on hard inanimate surfaces) – For Hospitals, Nursing Homes, Whirlpool, Home, Hotels & Motels, Waterbed Conditioner, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey **RECEIVED** **REMARKS** **Dated:** **JUN - 7 2007**
Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use and for Sanitizing Ice Machines
Athletic Surface Disinfect.
Formulated for effective Poultry Sanitation.
Formulated for effective Swine Premise Sanitation.
Formulated for effective Mushroom Farm Sanitation.
Small Fly Ovicidal Treatment.

ACTIVE INGREDIENTS:

- n-Alkyl (60%C₁₄, 30%C₁₆, 5%C₁₂, 5%C₁₈) dimethyl benzyl ammonium chloride 1.563%
- n-Alkyl (68%C₁₂, 32%C₁₄) dimethyl ethylbenzyl ammonium chloride 1.563%

INERT INGREDIENTS: 96.874%

TOTAL: 100.000%

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-173

KEEP OUT OF REACH OF CHILDREN

DANGER

See all panels for additional precautionary statements.

First Aid

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

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

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

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

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

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

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

Transportation Information

DOT Hazard Class: Not Regulated

DOT Proper Shipping Name: Not applicable

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

General Disinfection in Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions, Non-Medical (schools, restaurants, food services, beverage and food processing plants): This product is bactericidal according to the AOAC Use Dilution Test method on hard, inanimate surfaces modified in the presence of 5% organic serum against:

Corynebacterium ammoniagenes (ATCC# 6872)
Enterobacter aerogenes (ATCC# 13408)
Enterococcus faecalis (Vancomycin resistant) – VRE (ATCC# 51299)
Enterococcus faecalis (ATCC# 29212)
Escherichia coli (ATCC# 11229)
Klebsiella pneumoniae (ATCC# 4352)
Legionella pneumophila (ATCC# 33153)
Proteus mirabilis (ATCC# 9240)
Pseudomonas aeruginosa, PRD-10 (ATCC# 15442)
Salmonella enterica (ATCC# 10708)
Salmonella schottmuelleri (ATCC# 8759)
Serratia marcescens (ATCC# 14756)
Shigella dysenteriae (ATCC# 11835)
Staphylococcus aureus (Methicillin resistant) (ATCC# 33592)
Staphylococcus aureus (Vancomycin resistant) – VISA (HIP 5836)
Staphylococcus aureus (ATCC# 6538)
Streptococcus faecalis
Streptococcus salivarius (ATCC# 7073)

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

Adenovirus Type 2 (causative agent of upper respiratory infections)
Herpes simplex, Type 1 (causative agent of fever blisters)
Herpes simplex, Type 2
HBV
HCV
HIV-1
Human Coronavirus
Influenza A2 /Japan (representative of the common flu virus)
Infectious Bronchitis Virus
Vaccinia Virus (representative of the pox virus group)

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

Avian influenza A/Turkey/Wisconsin
Canine Coronavirus
Canine Distemper
Equine Arteritis Virus
Infectious Avian Laryngotracheitis

Infectious Bovine Rhinotracheitis virus (IBR)
Newcastle disease virus
Porcine Respiratory & Reproductive virus (PRRSV)
Porcine Rotavirus
Pseudorabies virus
Transmissible Gastroenteritis (TGE)

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

Klebsiella pneumoniae (ATCC 4352)
Staphylococcus aureus (ATCC 6538)

Food Contact Sanitizing Performance: This product is an effective food contact sanitizer according to the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test against the following bacteria:

Escherichia coli
Staphylococcus aureus (ATCC 6538)

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

Aspergillus niger ATCC# 6275
Trichophyton mentagrophytes ATCC# 9533

Maquat® 64-X for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, 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, whirlpools, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities, emergency vehicles, ambulances(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.
- Restaurants, restaurants and bars, bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza stores, liquor stores.
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms.

- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households)
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities.
- Heath clubs, spas, tanning spas, tanning beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Humidifier water tanks. *(Not for use in California)*
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants.
- Processing facilities for Fish, Milk, Citrus, Wine, Fruit, Vegetable, Ice Cream and Potatoes and beverage plants.
- Tobacco plant premise and equipment
- Veterinary clinics, animal life science laboratories, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms, porches.

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

- Food preparation and storage areas.

- Dishes, glassware, silverware, cooking utensils, eating utensils, plastic and other non-porous cutting boards, plastic and other non-porous chopping blocks, coolers, ice chests, refrigerator bins used for meat, vegetables, fruit and eggs, Tupperware®.
- Kitchen equipment such as food processors, blenders, cutlery, trash compactors and other utensils.
- Countertops (counters), stovetops (stoves), Slurpy® machines, sinks (bathroom, kitchen), tub surfaces, appliances, refrigerators, ice machines.
- Interior hard, non-porous surfaces of water softeners, reverse osmosis units, ice machines, water coolers, water holding tanks and pressure tanks.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic, (such as polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl.
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery.
- Foundations, steps, plumbing fixtures, finished baseboards, and window sills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning, refrigeration equipment and heat pumps.
- Large, inflatable, non-porous plastic and rubber structures: animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.
- Beer fermentation and holding tanks, bottling or pre-mix dispensing equipment.
- Wine processing equipment and holding tanks.
- Citrus processing equipment and holding tanks.
- Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wooden picnic tables and outdoor (patio) 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, n. 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.
- Drinking fountains.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, porcelain tile and restroom fixtures.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring.
- Dishes, silverware, glasses, cooking utensils, eating utensils and other similar size food processing equipment can be sanitized by immersion. NO POTABLE WATER RINSE IS ALLOWED

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- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.

This product contains no phosphorous.

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

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

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

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

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

This product will not leave a grit or soap scum.

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

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.)*

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

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

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

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

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

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

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

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

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

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

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

Floor cleaner.

One step cleaner.

Cleans and shines.

This product maximizes (improves) labor results by effectively controlling odors.

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

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

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

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

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

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

Cleans everyday kitchen messes.

Cleans kitchen surfaces and food preparation areas.

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

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

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

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

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

Antibacterial.

Kills Athlete's Foot fungus on bathroom surfaces.

Kills common kitchen (bathroom) germs.

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

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

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

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

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

Hospital Use Disinfectant. Institutional Disinfectant (Sanitizer).

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

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

Hospital Use Disinfectant. Institutional Disinfectant (Sanitizer).

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

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

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

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

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

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

This product cleans by removing dirt, grime, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other

small animal facilities. It (also) eliminates odors leaving surfaces smelling clean and fresh.

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

This product is for 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 meets AOAC efficacy standards for hard, non-porous surface sanitizers.

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

This product meets AOAC Germicidal and Detergent Test Standards for food contact surfaces.

Escherichia coli (E. coli) and Staphylococcus aureus (Staph) are common bacteria found where food is prepared and stored. This product kills these bacteria and helps prevent the spread of food borne contamination on treated kitchen surfaces listed on this label. A potable water rinse is required after application on food contact surfaces.

This product is for use as a Food Grade Egg Shell sanitizer, with best results achieved in water temperatures ranging from 78°-110°F.

This product may be applied through automatic washing systems, immersion tanks, foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems.

This product is for use as a sanitizer on dishes, glassware and utensils (at 200 ppm active) and as a disinfectant on hard, non-porous surfaces (at 488 ppm active). A potable water rinse is not allowed when used as a sanitizer on food contact surfaces.

OR

This product is for use as a sanitizer in public eating places, dairy processing equipment and food processing equipment and utensils (at 200 ppm active) and as a disinfectant on hard, non-porous surfaces (at 488 ppm active). A potable water rinse is not allowed when used as a sanitizer on food contact surfaces.

This product is for use as a sanitizer on food processing equipment and utensils (at 400 ppm active) and as a disinfectant on hard, non-porous surfaces (at 488 ppm active). A potable water rinse is not allowed when used as a sanitizer on food contact surfaces.

This product has been cleared in 40CFR180.940 for use on food processing equipment and utensils at a concentration of 200-400 ppm active.

This product is for use as a sanitizer in bottling and beverage dispensing equipment.

This product is for use as a sanitizer in sanitary filling of bottles and cans.

This product is for use in sanitizing bottles or cans in the final rinse application, and for external spraying of filling and closing machines.

This product is for use as a sanitizer in beer fermentation and holding tanks.

This product is for use as a sanitizer in wineries for use on holding tanks, floors and processing equipment.

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

Regular, effective cleaning and sanitizing of equipment, utensils and work or dining surfaces which could harbor hazardous microorganisms minimizes the probability of contaminating food during preparation, storage or service. Effective cleaning will remove soil and prevent the accumulation of food residues, which may decompose or support the rapid development of food poisoning organisms or toxins. Application of effective sanitizing procedures reduces the number of those microorganisms which may be present on equipment and utensils after cleaning, and reduces the potential for the transfer, either directly through tableware such as glasses, cups and flatware, or indirectly through food.

To prevent cross contamination, kitchenware and food contact surfaces of equipment must be washed, rinsed with potable water and sanitized after each use and following any interruption of operation during which time contamination may have occurred.

Where equipment and utensils are used for preparation of foods on a continuous or production line basis, utensils and the food contact surfaces of equipment shall be washed, rinsed and sanitized at intervals throughout the day on a schedule based on food temperature, type of food and amount of food particle accumulation.

DIRECTIONS FOR USE

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

Apply this product with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

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

DISINFECTION/FUNGICIDAL ACTIVITY: At 2 oz per gallon dilution (or equivalent use dilution), with a 10-minute contact time, this product exhibits effective disinfectant activity against the following:

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

Corynebacterium ammoniagenes ATCC# 6872
Enterobacter aerogenes ATCC# 13408
Enterococcus faecalis (Vancomycin resistant) – VRE (ATCC# 51299)
Enterococcus faecalis ATCC# 29212
Escherichia coli ATCC# 11229
Klebsiella pneumoniae ATCC# 4352
Legionella pneumophila ATCC# 33153
Proteus mirabilis ATCC# 9240

Pseudomonas aeruginosa, PRD-10 ATCC# 15442
Salmonella enterica ATCC# 10708
Salmonella schottmuelleri ATCC# 8759
Serratia marcescens ATCC# 14756
Shigella dysenteriae ATCC# 11835
Staphylococcus aureus (Methicillin resistant) ATCC# 33592
Staphylococcus aureus (Vancomycin resistant) – VISA (HIP 5836)
Staphylococcus aureus ATCC# 6538
Streptococcus faecalis
Streptococcus salivarius ATCC# 7073

Fungicidal Performance:

Aspergillus niger ATCC# 6275
Trichophyton mentagrophytes ATCC# 9533

VIRUCIDAL* ACTIVITY: The product when used on environmental inanimate hard surfaces at 2 oz per gallon of water (or equivalent use dilution) exhibits effective virucidal* activity against:

OR

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

Adenovirus Type 2 (causative agent of upper respiratory infections)
Herpes simplex, Type 1 (causative agent of fever blisters)
Herpes simplex, Type 2
HIV-1
Human Coronavirus
Influenza A2 /Japan (representative of the common flu virus)
Vaccinia Virus (representative of the pox virus group)

At 3 ounces per gallon use level (or equivalent use dilution), this product is effective against the following:

Infectious Bronchitis Virus
Transmissible Gastroenteritis (TGE)

Disinfection/Fungicidal Directions: Use at a rate of 2 ounces per gallon (or equivalent use dilution). Allow surfaces to remain wet for 10 minutes. Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas 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.

Add 2 ounces per gallon of water (or equivalent use dilution) to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

To Clean and Deodorize: Add 2 oz. per gallon of water (or equivalent use dilution). Swab with cloth, mop or mechanical spray device so as to thoroughly wet surfaces. Wipe excess or allow to air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

OR

Cleaning/Deodorizing Directions: Add 2 to 4 ounces per gallon of water (or equivalent use dilution) to clean and deodorize windows, mirrors and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

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Cleaning and Disinfection: For all general cleaning and disinfection use 2 ounces of this product per gallon of water (or equivalent use dilution) (488 ppm active quat). Apply this product using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution after each use. For sprayer applications, use a coarse spray device.

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

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



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

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

Or

This product is not for use on Medical device or medical equipment surfaces.

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

To disinfect hard, inanimate surfaces (such as walls, floors, table tops), add 2 oz. detergent/disinfectant (this product) per (to) gallon of water (or equivalent use dilution) (OR mix 2 oz. packet with one gallon of water). Apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow (treated surfaces) to remain wet for 10 minutes and then let air dry.

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

For heavily soiled areas, a pre-cleaning step is required.

Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions Disinfection, Fungicidal and Virucidal Dilution Chart

Ounces of Product	Amount of Water
2 ounce	1 gallon
4 ounces	2 gallons
9 ounces	5 gallons
18 ounces	10 gallons

At 2 ounces per gallon (or equivalent use dilution) (488 ppm active quat) in the presence of 5% blood serum and 400 ppm of hardness for a 2 minute contact time this product was found to be effective against HIV-1 (AIDS Virus).

At 3 ounces per gallon of water (or equivalent use dilution) (732 ppm active quat) in the presence of 5% organic load this product was proven to be effective against (Duck) Hepatitis B Virus with a contact time of 10 minutes.

At 3 ounces per gallon of water (or equivalent use dilution) (732 ppm active quat) in the presence of 5% organic load this product was proven to be effective against Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

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

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

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

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

DISPOSAL of INFECTIOUS MATERIALS: Blood and other body fluids must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

CONTACT TIME: Leave surfaces wet for 2 minutes for HIV and 10 minutes for HBV, HCV and other viruses and bacteria listed on the label.

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

Ultrasonic Bath Disinfectant Directions: Use this product to disinfect hard (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning unit. Pour (a) fresh solution of 2 ounces per gallon of water (or equivalent use dilution) (488 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 (Fiberglass) Bath and Therapy Equipment: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of water (488 ppm active quat) (or equivalent use dilution) 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 and/all disinfected (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 2 ounces of this product for each gallon of (488 ppm active quat) water (or equivalent use dilution) 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.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

Preparation of sanitizer use solution: Add 3 ounces of this product to 1 gallon of water (or equivalent use dilution) (732 ppm active) to sanitize hard, non-porous surfaces. At 732 ppm active, this product is an effective one-step sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae*.

Apply 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 and rub with brush, sponge or cloth. Do not breathe spray.

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

Ultrasonic Bath Sanitizer Directions: Use this product to sanitize hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 3 ounces per gallon of water (or equivalent use dilution) (732 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 60 seconds, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visible dirty or discolored.

Sanitization of Hard, Non-Porous Surfaces in Whirlpool Units: After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 3 ounces of this product for each gallon of (or equivalent use dilution) (732 ppm active quat) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 60 seconds. After the unit has been thoroughly sanitized, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.



For Schools, Industry and Non-Medical Institutional Uses: This product delivers cleaning and germicidal effectiveness. Apply a 2-ounce per gallon of water solution (or equivalent use dilution) (488 ppm) to hard non-porous surfaces. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or if solution becomes dilution or soiled

Cleansing of Body Surfaces and Body Orifices of Human Remains: To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, apply 2 ounces of this product to 1 gallon of water (488 ppm active) (or equivalent use dilution) to the surfaces and body openings, natural or artificial. Bath the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Allow a 10-minute contact time for optimal results. Prepare a fresh solution for application of each remains.

Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions: Immerse pre-cleaned barber/salon tools, such as combs, brushes, razors, clipper and trimmer blades, tweezers, manicure/pedicure tools and scissors, in a 2 ounces per gallon solution of the product (or equivalent use dilution) (488 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

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

Disinfection/Fungicide/Virucide* of Hard, Non-Porous Surfaces in Footbaths: . . . remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon of water (or equivalent use dilution) (488 ppm active quat) to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray applications, use a coarse spray device. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not breathe spray. Do not use equipment until treatment has been absorbed, set or dried.

For use on non-food contact surfaces as a general disinfectant in the brewery industry: Use 2 ounces of this product per gallon of water (or equivalent use dilution) (488 ppm active quat). Follow the Disinfectant directions above.

FOR CONTROL OF SMALL FLIES ON NON-FOOD CONTACT SURFACES: For control of small flies: *Drosophila* spp. and the Phoridae family. To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and fr packaging prior to use. Cover exposed food-handling surfaces. After removing gr filth, apply a solution of 2 ounces of this product per gallon of water (or equivalent use dilution) (488 ppm active quat) to surfaces and locations where flies may breed. Spray surfaces thoroughly or apply by pouring, mopping or sponging onto the surface. Repeat application 1-2 times per week or as needed. Do not contaminate food and food packaging.

FOR CONTROL OF SMALL FLIES IN DRAINS: For control of small flies: *Drosophila* spp. and the Phoridae family. Spray or pour solution of 2 ounces per gallon of water (or equivalent use dilution) (488 ppm active quat) into drain during time of lowest level of drain use. Add 14 ounces of solution daily to each drain to maintain fly control. Apply around the edge of the drain and coat all sides of inside of drain.

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

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

Dosage: To control growth of odor-causing and slime-forming bacteria, 9.125 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 18.25 fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

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

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

Preparation of sanitizer use solution: Add 3 ounces of this product to 1 gallon of water (or equivalent use dilution) (732 ppm active) to sanitize hard, non-porous surfaces. At 732 ppm active, this product is an effective one-step sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae*.

Apply 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 and rub with brush, sponge or cloth. Do not breathe spray.

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

SHOE BATH SANITIZATION: To prevent cross contamination from area to area in treated animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in 3 ounces of this product per 1 gallon (or equivalent use dilution) (732 ppm active quat) of water solution for 60 seconds prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

SHOE FOAM DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 2 to 3 ounces per gallon of water (or equivalent use dilution) (732 to 1098 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacture of the foam generator/aerator. Scrape waterproof shoes. Stand and/or

walk through foamed area for 60 seconds prior to entering area. Foam area must be washed and replaced at least daily or when it appears dirty.

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

ENTRYWAY SANITIZING SYSTEMS: To prevent cross contamination from area to area, set the system to deliver (2 oz. per gallon of water) (732 ppm active) of sanitizing solution. The (spray) (foam) must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

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 3 ounces per gallon (or equivalent use dilution) (732 ppm active quat) of water for at least 60 seconds. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

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



Fungicidal Activity: At 2 ounces per gallon use-level, (or equivalent use dilution) (488 ppm active quat) 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. Pre-clean all surfaces prior to using this product.

OR

At this level the product is also fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes* in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

MILDEWSTAT: Controls the growth of mold and mildew on pre-cleaned hard, non-porous surfaces (such as floors, walls, table tops) add 2 oz. of this product per gallon of water (or equivalent use dilution). Apply solution with a cloth, mop or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each 1 Repeat application at weekly intervals or when mildew growth reappears.

OR

Mold and Mildew Control: At 2 ounces per gallon (or equivalent use dilution) (488 ppm active quat), this product will effectively inhibit and control the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated in general instructions above). Allow surface to dry on surface and repeat treatment every seven days or when new growth appears.

General Deodorization: To deodorize, add 2 ounces of this product to one gallon of water (or equivalent use dilution) (488 ppm active quat). Allow to air dry.

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 (or this product) and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon (488 ppm active quat) of water (or equivalent dilution) for a period

of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment: It is especially important to pre-clean for the product to perform properly. Then, apply a wetting concentration of 7 ounces of this product per gallon of water (or equivalent use dilution) (2,440 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 (wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon (488 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

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

OR

Humidifier Bacteria/Algae Treatment: Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. For every 1 gallon of water in the humidifier tank add 2 ounces of this product. When refilling the tank, add ½ ounce of this product for every 2 gallons of water added.

Not for use in heat vaporizing or atomizing type humidifiers.

WATER AND SMOKE DAMAGE RESTORATION (Not applicable in CA)

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 2 to 4 ounces of this product per gallon of water (or equivalent use dilution) allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all effective 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 2 to 4 ounces of the product per gallon of water (or equivalent use dilution), allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a 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(s). For use on wet, cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness.

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

For Truck Mounted Extraction Machines: Mix 24 ounces of the product per 1½ gallons of water (or equivalent use dilution) and meter at 4 gallons per hour.

For Rotary Floor Machines: Mix 2 ounces 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.

Smoke Damage Restoration (Not applicable in CA): 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.

CARPET DEODORIZATION AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE (Not applicable in CA)

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

Vacuum carpet thoroughly prior to application. Mix 1 ounce of product per gallon of water (or equivalent use dilution). Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 2 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

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

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

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



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

Remove gross filth prior to disinfection.

From concentrate: Add 2 ounces to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim, with a cloth, mop or sponge and allow to stand for 10 minutes and flush.

From use solution: Empty toilet bowl or urinal and apply 2 ounces per gallon of water (or equivalent use dilution) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush. For sprayer applications use a coarse spray device.

For heavy duty cleaning: Empty toilet bowl or urinal and apply 8 ounces per gallon of water use solution (or equivalent use dilution) to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

OR

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

ANIMAL PREMISE SECTION

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

Canine Coronavirus

At 3 ounces per gallon use level (or equivalent use dilution), this product is effective against the following:

Avian influenza A/Turkey/Wisconsin

Canine Distemper

Equine Arteritis Virus

Infectious Avian Laryngotracheitis

Infectious Bovine Rhinotracheitis virus (IBR)

Newcastle disease virus

Porcine Respiratory & Reproductive virus (PRRSV)

Porcine Rotavirus

Pseudorabies virus

POULTRY (AND SWINE) PREMISE SANITATION SITE PREPARATION

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

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 3 ounces per gallon of water (or equivalent dilution) (732 ppm active quat) 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, scrappers used in removing litter and manure. Ventilate

buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Equine Quarters, Animal Quarters and Kennels Directions: Remove all animals and feeds from premises vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 3 ounces of this product per gallon of water (or equivalent use dilution) (732 ppm active quat). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

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

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

HATCHERIES: Use 3 ounces of this product per gallon of water (or equivalent use dilution) (732 ppm active quat) to treat the following hard, non-porous surfaces: hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray. Use 3 ounces per gallon of water (or equivalent use dilution) (732 ppm active quat) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more and allow to air dry.

RENDERING PLANT/DRESSING PLANT DISINFECTANT/FUNGICIDE/VIRUCIDAL DIRECTIONS (DRESSING PLANT AND RENDERING PLANT DISINFECTANT - VIRUCIDE DIRECTIONS): Pre-clean all surfaces before using this product. Disinfect walls and floors in poultry and animal dressing plants. Disinfect offal rooms, extr walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution of 3 ounces of this product per gallon of water (or equivalent use dilution) (732 ppm active quat). Scrub to loosen all soils. Allow treated surfaces to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

FARM PREMISE DISINFECTION DIRECTIONS

For use in Equine, Dairy and Hog Farms

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting or virucidal solution (3 ounces per gallon of water (or equivalent use dilution) (732 ppm active quat) for a period of 10 minutes.

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

For Use For Treatment of Animal Housing Facilities:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, stables, chutes and other facilities and fixtures occupied or 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 (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (3 ounces per 1 gallon of water or equivalent use dilution) (732 ppm active quat) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrappers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

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 (3 ounces per 1 gallon of water or equivalent use dilution) (732 ppm active quat) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.
4. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning to terrarium.
5. Do not return animals to the habitat until it is dry and ventilated.
6. Thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.
7. Clean terrarium at least once weekly or more as needed.

Note: Substrates for desert terrariums (i.e. gravel) must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists.

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

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

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 32 ounces of this product to 128 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breath this fog. It is acceptable to fog setters and hatchers with a 2-ounce per gallon solution of this product (or equivalent use dilution) on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is complete, ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatr has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, trough, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.



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 not allowed following use of the product as a sanitizer on previously cleaned hard, food contact surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains.

To Disinfect Food-Processing and Tobacco Premises: Before using this product, food products and packaging materials must be removed from area or carefully

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protected. For floors, walls and storage areas, add 2 ounces of this product to one gallon of water (or equivalent use dilution) (488 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow surface to remain wet for 10 minutes. Then remove excess liquid. For sprayer applications, use a coarse spray device. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To Disinfect Food Service Establishment Food Contact Surfaces: For countertops, exterior surfaces of appliances, and tables, add 2 ounces of this product to one gallon of water (or equivalent use dilution) (488 ppm active quat). Before using this product, food products and packaging materials must be removed from area or carefully protected. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow surface to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. For sprayer applications use a coarse spray device. After use, all surfaces in the area must be thoroughly rinsed with potable water.

For Use on Non-Food Contact Surfaces as a General Disinfectant in the Brewery Industry: Use 2 ounces of this product per 1 gallon of water (or equivalent use dilution) (488 ppm active quat). Follow the general disinfectant directions above.

Directions for Fogging: For use in dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cubic feet of room area with a product solution containing 3.5 ounces product to 1 gallon of water (or equivalent use dilution) (1,220 ppm). Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution prior to use. Allow food contact surfaces to drain thoroughly before operations are resumed.

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

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

FOOD PROCESSING PLANTS USING FOGGING DEVICES

Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 3.5 ounces of product to 1 gallon of water (1,220 ppm) (or equivalent use dilution). Vacate the area of all personnel for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

MUSHROOM FARM INDUSTRY USE DIRECTIONS

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

Disinfection: Use 2 ounces of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces must be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use.

For Heavy Duty Cleaning: When greater cleaning is desired, use 4 ounces of this product per gallon of water (or equivalent dilution). Heavily soiled areas may require repeated cleaning before treatment.

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

FOOD CONTACT AND TOBACCO PROCESSING EQUIPMENT SANITIZING DIRECTIONS

When used for sanitization of previously cleaned food equipment or food contact items limit active quaternaries - to 200-400 ppm. At this level **NO POTABLE WATER RINSE** is allowed.

It is an effective sanitizer when diluted in water up to 250 ppm hardness (CaCO₃).

To sanitize previously cleaned and rinsed non-porous food contact surfaces, prepare 200-400 ppm active quaternary solution by adding 4-8 oz. to 5 gallons of water.

To sanitize immobile items (such as tanks, chopping blocks, counter tops) flood the area with 200-400 ppm solution or apply with a cloth or sponge making sure to wet all surfaces completely for at least 60 seconds. Let air dry. Prepare a fresh solution for each use.

To sanitize mobile items, immerse in 200-400 ppm solution for at least 60 seconds making sure to immerse completely. Remove and let air dry. Prepare a fresh solution at least daily or more frequently as soil is apparent.

OR

Sanitizing of Food Processing Equipment and Other Hard Surfaces in F, Processing Locations, Dairies, Restaurants and Bars Directions: For sanitizing food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard, non-porous surfaces. **NO POTABLE WATER RINSE IS ALLOWED.**

Prior to application, remove gross food particles and soil by a pre-flush or pre-scrape and when necessary, presoak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner, followed by a potable water rinse before applications of the sanitizing solution.

Before use as a sanitizer in federally inspected meat and poultry plants and dairies, food products and packaging materials must be removed from the room or carefully protected. A potable water rinse is not allowed following the use of this product on previously cleaned hard, non-porous surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains.

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Apply a solution of 4 ounces of this product in 5 gallons of water, (or equivalent use dilution) (200 ppm active) OR mix an 4-ounce packet with 5 gallons of water to pre-cleaned, hard surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. For spray applications, use a coarse pump or trigger sprayer. Spray 6 to 8 inches from surface. Rub with brush, sponge, or cloth. Do not breathe spray. With spray applications cover or remove all food products. From a Closed Loop Dilution Center, apply 200 ppm active solution to the surface to be sanitized. Surfaces must remain wet for at least 1 minute followed by adequate draining (and air drying).

Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For mechanical application use solution may not be reused for sanitizing applications. NO POTABLE WATER RINSE IS ALLOWED AFTER APPLICATION OF THE SANITIZING SOLUTION.

Apply to sink tops, countertops, refrigerated storage and display equipment and other stationary hard surfaces by cloth or brush or mechanical spray device. NO POTABLE WATER RINSE IS ALLOWED (after use as a sanitizer).

Dishes, silverware, glasses, cooking utensils, eating utensils and other similar size food processing equipment can be sanitized by immersion in an 2-ounce per 5 gallon of water solution (or equivalent use dilution) of this product (200 ppm active). NO POTABLE WATER RINSE IS ALLOWED.

At 4 ounces per 5 gallons this product (200 ppm active) (or equivalent use dilution) eliminates 99.999% of the of the following bacteria in 60 seconds in 250 ppm hard water (calculated as CaCO₃) according to the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test.

Escherichia coli

Staphylococcus aureus

0.5 ounce	5/8 gallon
1 ounce	1 1/4 gallon
2 ounce	2.5 gallons
4 ounces	5 gallons
8 ounces	10 gallons
16 ounces	20 gallons

To prepare a 200, 300 or 400 ppm active quaternary solution use the following dilution table. Prepare correct dilution rate based upon the appropriate use site directions.

Active quat solution	2.5 gallon	5 gallons	10 gallons	20 gallons
200 ppm	2 ounces	4 ounces	8 ounces	16 ounces
300 ppm	3 ounces	6 ounces	12 ounces	24 ounces
400 ppm	4 ounces	8 ounces	16 ounces	32 ounces

For Public Eating Places, Dairy Processing Equipment and Food Processing Equipment and Utensils: Prior to application, remove gross food particles and soil by pre-flush, or pre-scrape, and when necessary, pre-soak. Then thoroughly wash or flush objects with a compatible detergent followed by a potable water rinse before application of sanitizing solutions. Apply a solution of 4 ounces of this product in 5 gallons of water (or equivalent use dilution) (200 ppm active) OR mix a 4-ounce packet with 5 gallons of water to pre-cleaned, hard surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. For spray applications, use a coarse pump or trigger sprayer. Spray 6 to 8 inches from surface. Rub with brush, sponge, or cloth. Do not breathe spray. With spray applications cover or remove all food products. From a Closed Loop Dilution Center, apply 200 ppm active solution to the surface to be sanitized. Surfaces must remain wet for at least 1 minute, followed by adequate

draining (and air drying). Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For mechanical application use solution may not be reused for sanitizing applications. NO POTABLE WATER RINSE IS ALLOWED (after use as a sanitizer) (after application of the sanitizing solution).

For Food Processing Equipment and Utensils: Prior to application, remove gross food particles and soil by pre-flush, or pre-scrape, and when necessary, pre-soak. Then thoroughly wash or flush objects with a compatible detergent followed by a potable water rinse before application of sanitizing solutions. Apply a solution of 4-8 ounces of this product in 5 gallons of water (or equivalent use dilution) (200-400 ppm active) to pre-cleaned, hard, non-porous surfaces thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. For spray applications, use a coarse pump or trigger sprayer. Spray 6 to 8 inches from surface. Rub with brush, sponge, or cloth. Do not breathe spray. With spray applications cover or remove all food products. From a Closed Loop Dilution Center, apply 200-400 ppm active solution to the surface to be sanitized. Surfaces must remain wet for at least 1 minute followed by adequate draining (and air drying). (Alternate statement: Allow sanitized surfaces to adequately drain before contact with food). Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For mechanical application use solution may not be reused for sanitizing applications. NO POTABLE WATER RINSE IS ALLOWED AFTER APPLICATION OF THE SANITIZING SOLUTION (after use as a sanitizer) (after application of the sanitizing solution).

DIRECTIONS FOR SANITIZING FOOD CONTACT SURFACES IN PUBLIC EATING PLACES, DAIRY PROCESSING EQUIPMENT AND FOOD PROCESSING EQUIPMENT, AND UTENSILS REGULATED BY 40CFR sec 180.940(a):

1. Scrape, flush or presoak articles (whether mobile or stationary) to remove gross food particles and soil.
2. Thoroughly wash articles with an appropriate detergent or cleaner.
3. Rinse articles thoroughly with potable water.
4. Sanitize articles using a solution of 4 ounces of this product per 5 gallons of water (200 ppm active) (or equivalent use dilution). Articles that can be immersed in solution must remain in solution for 60 seconds. Articles too large for immersing must be thoroughly wetted by rinsing, spraying or swabbing.
5. Remove immersed items from solution to drain (and then air dry). Allow non-immersed items to air dry also. No potable water rinse is allowed.

**U.S. PUBLIC HEALTH SERVICE
FOOD SERVICE SANITIZATION RECOMMENDATIONS
CLEANING AND SANITIZING:**

Equipment and utensils shall be thoroughly preflushed or prescaped, and when necessary, presoaked to remove gross food particles and soil.

1. Thoroughly wash equipment and utensils in a hot detergent solution. Rinse utensils and equipment thoroughly with potable water.
2. Sanitize equipment and utensils by immersion in 4 ounces of this product per 5 gallons of water for at least 60 seconds at a temperature of 75°F. This dilution is equivalent to a solution containing 50 ppm available chlorine.
3. For equipment and utensils too large to sanitize by immersion, apply 4 ounces of this product per 5 gallons of water (200 ppm active) (or equivalent use dilution) by rinsing, spraying or swabbing until thoroughly wetted.
4. Allow sanitized surfaces to drain (and air dry). Do not rinse.

**WISCONSIN STATE DIVISION OF HEALTH
DIRECTIONS FOR EATING ESTABLISHMENTS**

1. Scrape and pre-wash utensils and glasses whenever possible.

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2. Wash with a good detergent or compatible cleaner.
3. Rinse with potable water.
4. Sanitize in a solution of 4 ounces of this product per 5 gallons water (200 ppm active quaternary) (or equivalent use dilution). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air-dry.
6. Prepare fresh sanitizing solution at least daily or more often when visibly soiled or diluted.

NOTE: A clean potable water rinse following sanitization is not permitted under Section HFS 196.13 of the Wisconsin Administrative Code.

(Alternative language for clean in place, closed loop dilution centers.)

**WISCONSIN STATE DIVISION OF HEALTH
DIRECTIONS FOR EATING ESTABLISHMENTS**

1. Scrape and pre-wash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with potable water.
4. Sanitize in a solution from the Closed Loop Dilution Center (200 ppm active quaternary). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air-dry.
6. Prepare fresh sanitizing solution at least daily or more often when visibly soiled or diluted.

NOTE: A clean potable water rinse following sanitization is not permitted under Section HFS 196.13 of the Wisconsin Administrative Code.

Sanitizing of Food Processing Equipment (Ice Machines) and Other Hard Surfaces in Food Contact Locations: For sanitizing food processing equipment, dairy equipment, refrigerated storage and display equipment and other hard, non-porous surfaces. Equipment and utensils must be thoroughly preflushed or prescraped and when necessary presoaked to remove gross food particles. No potable water rinse is allowed.

1. Turn off refrigeration
2. Prior to application, remove gross food particles and soil by pre-flush, or pre-scrape, and when necessary, pre-soak.
3. Thoroughly wash or flush objects with a compatible detergent followed by a potable water rinse before application of sanitizing solutions.
4. Apply a solution of 4 ounces of this product in 5 gallons of water (or equivalent use dilution) (200 ppm active) by mechanical spray, direct pouring or by recirculating through the system. Surfaces must remain wet for at least one minute followed by complete draining (and drying).
5. No potable water rinse is allowed.
6. Return machine to service.

SANITIZATION OF INTERIOR HARD, NON-POROUS SURFACES OF WATER SOFTENERS AND REVERSE OSMOSIS (RO) UNITS

Water Softeners – Sanitization must occur after initial installation, after the system is serviced and periodically during its use.

1. Thoroughly wash or flush objects with a compatible detergent followed by a potable water rinse before application of sanitizing solutions.
2. Backwash the softener and add 4 ounces of sanitizer per 5 gallons of water (200 ppm active) (or equivalent use dilution) to the brine tank well. (The brine tank should have water in it to permit the solution to be carried into the softener.) (NOTE: Standard system capacity is 48 gallons.)

3. Unit must be washed with a compatible detergent and rinsed with potable water before sanitizing
4. Proceed with the normal regeneration or interrupt the cycle after the brining step and let the softener soak with sanitizer solution for a minimum of 60 seconds.
5. Backwash the softener with potable water to make sure all sanitizing solution is thoroughly rinsed from the unit before returning the system to service.

Reverse Osmosis (RO) Units – Sanitization must occur after initial installation, after the system is serviced and periodically during its use.

1. Turn off RO system, drain storage tank and remove membrane element and pre-filters. Put membrane element in a plastic bag so it remains wet. Do not use this product to sanitize the membrane element. Membrane element must be sterilized separately.
2. Unit must be washed with a compatible detergent and rinsed with potable water before sanitizing
3. Fill empty pre-filter housing with 4 ounces of sanitizer per 5 gallons of water (200 ppm active) (or equivalent use dilution) and turn on raw water. (NOTE: Standard system capacity is 1 to 2 gallons).
4. After holding tank is full, let system stand idle for a minimum of 60 seconds. Turn off water. Drain holding tank.
5. Before the system is put back into service, flush system with potable water to assure sanitizing solution is rinsed thoroughly from system. Follow the manufacturer's directions for re-installation of new pre-filters, membrane element and post filter.

SANITIZATION OF INTERIOR HARD, NON-POROUS SURFACES OF ICE MACHINES, WATER COOLERS, WATER HOLDING TANKS AND PRESSURE TANKS

Ice Machines – Sanitization must occur after initial installation, after the machine is serviced and periodically during its use.

1. Shut off incoming water line to machine.
2. Unit must be washed with a compatible detergent and rinsed with potable water before sanitizing
3. Prepare a solution of 4 ounces of sanitizer per 5 gallons of water (200 ppm active) (or equivalent use dilution).
4. Circulate solution through machine making sure to wet all surfaces and allow a minimum contact of 60 seconds.
5. Drain and complete flush machine twice with potable water.
6. Return machine to normal operation.

Water Coolers, Water Holding Tanks and Pressure Tanks – Sanitization must occur after initial installation, after the system is serviced and periodically during its use.

1. Shut off incoming water line.
2. Units/tanks must be washed with a compatible detergent and rinsed with potable water before sanitizing.
3. Prepare a solution of 4 ounces of sanitizer per 5 gallons of water (200 ppm active) (or equivalent use dilution).
4. Apply or circulate (if possible) to wet all surfaces and allow a minimum contact of 60 seconds.
5. Drain and completely flush system twice with potable water.
6. Return to service by opening incoming water lines.

DIRECTIONS FOR RESTAURANT AND BAR SANITIZER

Equipment and utensils must be thoroughly preflushed or prescraped and, when necessary, presoaked to remove gross food particles and soil. Then thoroughly wash or

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flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution.

For precleaned dishes, glassware, silverware, eating utensils, (and) cooking utensils, immerse in a solution containing 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (200 ppm active quaternary). Allow surface to remain wet for at least 60 seconds. Drain thoroughly before reuse. No potable water rinse is allowed.

(Alternative language for clean in place, closed loop dilution centers.)

For use as a sanitizer on dishes, glassware, silverware, eating utensils, cooking utensils: For heavily soiled areas, remove gross food particles by preflush, prescrape, and presoak when necessary. Wash thoroughly with detergent or compatible cleaner then rinse with potable water prior to application of this product. Then immerse in a sanitizing solution from Closed Loop Dilution Center (200 ppm active quaternary). Allow surface to remain wet for at least 60 seconds. Drain thoroughly and air dry before reuse. No potable water rinse is allowed.

DIRECTIONS FOR FOOD PROCESSING EQUIPMENT AND DAIRIES

Equipment and utensils must be thoroughly preflushed or prescraped and, when necessary, presoaked to remove gross food particles. Wash thoroughly with detergent or compatible cleaner then rinse with potable water prior to application. Then apply sanitizing solution containing 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (200 ppm active quaternary). Allow surfaces to remain wet for at least 60 seconds. No potable water rinse is allowed.

At 4 ounces per 5 gallons this sanitizer fulfills the criteria of Appendix F of the Grade A Pasteurized Milk, Ordinance 1978 Recommendations of the U.S. Public Health Services in waters up to 250 ppm of hardness calculated as CaCO₃ when evaluated by the AOAC Germicidal and Detergent Sanitizer Method against Escherichia coli and Staphylococcus aureus.

BEVERAGE DISPENSING EQUIPMENT SANITIZER DIRECTIONS

For sanitizing of bottling or pre-mix dispensing equipment, after cleaning thoroughly rinse equipment with cold or lukewarm potable water. Fill equipment with a solution of 4 ounce of this product per 5 gallons of water (or equivalent use dilution) (200 ppm active). Allow solution to remain in equipment for at least 60 seconds, or until operations resume at which time the sanitizing solution should be drained from the system. To insure the removal of flavors, it is suggested that during changeover between products the system should be cleaned, rinsed and flushed with the sanitizing solution for at least 1 minute. Drain thoroughly and allow to air dry before reuse. No potable water is rinse allowed. (Alternate statement: Allow sanitized surfaces to adequately drain before contact with food).

SANITARY FILLING EQUIPMENT SANITIZER DIRECTIONS

For use in sanitizing bottles or cans in the final rinse application. The product is to be proportioned into the final rinse water line of the container washer or rinser in the concentration of 200 ppm active quat. Prepare a solution of 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (200 ppm active) for the exterior application for the filler and closing machine. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse. No potable water rinse is allowed. (Alternate statement: Allow sanitized surfaces to adequately drain before contact with food).

(Note: The following directions are for use in food processing areas only)

DIRECTIONS FOR FOOD PROCESSING EQUIPMENT AND UTENSILS (AS REGULATED BY 40CFR sec 180.940(c))

Equipment and utensils must be thoroughly preflushed or prescraped and, when necessary, presoaked to remove gross food particles. Clean and rinse equipment thoroughly. Then apply sanitizing solution containing 4 to 8 ounces of this product per 5 gallons of water (or equivalent use dilution) (200-400 ppm active quaternary). Allow surfaces to remain wet for at least 60 seconds. No potable water rinse is allowed (Do not rinse). (Alternate statement: Allow sanitized surfaces to adequately drain before contact with food).

(Alternate Directions for Sanitizing Food Processing Equipment and Utensils.)

DIRECTIONS FOR SANITIZING FOOD CONTACT SURFACES IN FOOD PROCESSING EQUIPMENT AND UTENSILS, AS REGULATED BY 40CFR sec 180.940(c):

1. Scrape, flush or presoak articles (whether mobile or stationary) to remove gross food particles and soil.
2. Thoroughly wash articles with an appropriate detergent or cleaner.
4. Rinse articles thoroughly with potable water.
5. Sanitize articles using a solution of 2 to 4 ounces of this product per 2.5 gallons of water (200 to 400 ppm active) (or equivalent use dilution). Articles that can be immersed in solution must remain in solution for 60 seconds. Articles too large for immersing must be thoroughly wetted by rinsing, spraying or swabbing.
6. Remove immersed and non-immersed items from solution to (and) make certain all surfaces are adequately drained before contact with food. Allow non-immersed items to air dry also. No potable water rinse is allowed. (Do not rinse.) (Alternate statement: Allow sanitized surfaces to adequately drain before contact with food).

STORAGE TANK SANITIZER DIRECTIONS

For sanitizing beer fermentation and holding tanks, citrus and food processing storage and holding tanks. Remove gross filth and soil by preflush or prescrape and when necessary presoak. Then wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a solution of 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (200 ppm active) for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse. No potable water rinse is allowed.

For mechanical operations or automated systems, the used sanitizing solution may not be used for sanitizing, but may be reused for other purposes such as cleaning.

SANITIZING EGG SHELLS INTENDED FOR FOOD DIRECTIONS

To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a solution of 4 ounces of this product per 5 gallons of warm water (or equivalent use dilution) (200 ppm active). The solution should be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with this product shall be subjected to a potable water rinse only if they are to be broken immediately for use in the manufacture of egg products. Eggs should be reasonably dry before casing or breaking. The solution must not be reused for sanitizing eggs.

NOTE: Only clean, whole eggs can be sanitized. Dirty, cracked or punctured eggs cannot be sanitized.

FOR CONTINUOUS TREATMENT OF MEAT AND POULTRY OR FRUIT AND VEGETABLE CONVEYORS:

Remove gross food particles and excess soil by a pre-flush or pre-scrape, wash with a good detergent or compatible cleaner, rinse equipment thoroughly with potable water, then rinse equipment with a sanitizing solution. To sanitize the belt apply this product at a 200-400 ppm quat level (4-8 ounces per 5 gallons) (or equivalent use dilution) to conveyors with suitable feeding equipment. Allow surfaces to remain wet for at least 60 seconds. Controlled volumes of sanitizer are

applied to return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer from equipment and to prevent puddles on top of belt. Do not allow this solution to be sprayed directly on food. During interruptions in operation, coarse spray equipment, peelers, collators, slicers and saws with this product at a dilution of 200-400 ppm active quat. Conveyor equipment must be free of product when applying this coarse spray.

FOR SANITIZING IN FISHERIES, MILK, CITRUS, POTATO & ICE CREAM PROCESSING PLANTS: For use as a sanitizer on conveyor belts and equipment to reduce or eliminate odors in the processing area. Also, for use on filling equipment to reduce bacteria associated with condensation on equipment and pipes. Follow directions for sanitizing food contact surfaces.

GLOVE DIP SANITIZER DIRECTIONS: To prevent cross contamination from are to are in animals areas and the packaging and storage areas of food plants, dip pre-washed (plastic, latex or other synthetic rubber) non-porous gloved hands into a suitable clean container that contains enough freshly made sanitizing solution to cover the gloved area. Make up the sanitizing solution by adding 4 ounces of this product per 5 gallons of water (or equivalent use dilution) (200 ppm active). Dip (Soak) in solution for 60 seconds. **NO POTABLE WATER RINSE IS ALLOWED.** Change the sanitizing solution in the bath at least daily or when solution appears dirty. **Do not let sanitizing solution come into contact with exposed skin.**

(Alternative language for bag in the box dispensing equipment.)

DIRECTIONS FOR BAG-IN BOX CONTAINERS

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

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

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

TWO-OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL FOR DISINFECTION

FOR DISINFECTION

MIX EACH PACKET WITH 1 GALLON OF WATER

MAQUAT® 64-X

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

NET CONTENTS: 2 FLUID OZ.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride 1.563%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride..... 1.563%

INERT INGREDIENTS: 96.874%

TOTAL: 100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

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

MASON CHEMICAL COMPANY

"THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road
Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855



see

**FOUR-OUNCE PACKET LABEL TO BE USED WITH MASTER
CONTAINER LABEL FOR FOOD CONTACT SANITIZER**

FOR FOOD CONTACT SANITIZER

MIX EACH PACKET WITH 5 GALLONS OF WATER

MAQUAT[®] 64-X

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

NET CONTENTS: 4 FLUID OZ.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride 1.563%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride..... 1.563%

INERT INGREDIENTS: 96.874%

TOTAL: 100.000%

KEEP OUT OF REACH OF CHILDREN

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