

10324-120

12/14/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

10324-120

Date of Issuance:

DEC 14 2001

NOTICE OF PESTICIDE:  
  x   Registration  
       Reregistration

(under FIFRA, as amended)

Term of Issuance:

CONDITIONAL

Name of Pesticide Product:

Maquat 64 EBC

Name and Address of Registrant (include ZIP Code):

Mason Chemical Company  
721 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 reregistration of your product under FIFRA section 4.
2. Add the phrase EPA Registration Number "EPA Reg. No. 10324-120".

Signature of Approving Official:

*Velma Noble*  
Velma Noble  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Date:

DEC 14 2001

EPA Form 8570-6

CONCURRENCES

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3. Make the following revisions to the label.

A. Make the following revision to page one:

- 1. Based on the "cite-all" method of data support, revise the "Precautionary Statements" to include the following: "*Harmful if swallowed or absorbed through the skin.*"
- 2. Delete the statement "Do not contaminate water, food or feed by storage and disposal." from the statements for containers of 1 gallon or less.

B. Make the following revisions to page two:

- 1. Since you have not included the site "homes" on the first page of your label, delete all references on page two to households: "This product is for use in kitchens, bathrooms, and other household areas,"(which appears twice) "This product is recommended for use in household and commercial humidifiers...", "This product controls odors to make your home sanitary.", delete the reference to house hold germs in the right column and revise the statement "this product is for use in kitchens, bathrooms and other household areas."
- 2. Revise the label to state: "This product is effective at controlling mold and mildew on shower curtains." deleting the references to mattresses and pillows.

C. Make the following revisions to page three:

- 1. You have not provided data to support food contact sanitization for this product. Delete the statement "Cleans kitchen surfaces and food preparation areas."
- 2. Your product may be used as a non-food contact sanitizer and by definition would leave a residue in such use. Delete the misleading phrase "Leaves (no) (low) residue."
- 3. Delete the three references to households on this page.
- 4. The following statement is too broad. Revise to state: "Cleans everyday kitchen messes like dirt , grease, and food stains *on non-food contact surfaces.*" Also delete the statement "Kills bacteria dish soap can't."
- 5. Revise the three statements on page 3 which list public health organisms by their abbreviated names only. In order to use abbreviate names each must always be associated with the complete name of the organism and may be followed by the abbreviate name in parenthesis (i.e. Escherichia (E. Coli)).
- 6. Revise the statement "This product kills these harmful germs and helps prevent the spread of food borne contamination on all kitchen surfaces." by deleting the word "all" and adding the phrase "*listed on this label.*" at the end of the statement.

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7. Revise both statements which refer the ability of this product to kill 99.9% of bacteria in less than 5 minutes to also state "when used as a sanitizer."

8. The following statement is too broad and must be deleted from the label: "This product has been laboratory tested and found to be effective."

9. Revise the statement "Kitchens, bathrooms and other household areas." by deleting "other household areas."

D. Make the following revisions to page four:

1. Revise to state "Health clubs, spas, tanning beds, massage facial salons, hair/nail/pedicure salons, barber/beauty shops..."

2. Revise the section beginning "Fishery, Milk, Citrus..." to read "Processing facilities for Fish, Milk, Citrus, Fruits, Vegetables, Ice Cream, and Potatoes." Then add the statement: "Tobacco plant premise and equipment."

3. Revise the statement beginning "Basements, cellars, bedrooms..." by separating the sites from the surfaces. List the surfaces "foundations, steps, plumbing fixtures, finished baseboards and window sills" in the section titled:

"This product may be used on washable hard nonporous surfaces such as:"

4. Delete the following sites which include food contact surfaces: food preparation and storage areas, dishes, glassware, silverware, cooking utensils, plastic and other nonporous cutting boards, coolers, ice chests, refrigerator bins used for meat, vegetables and egg, Tupperware, Kitchen equipment such as food processors, blenders, cutlery, trash compactors, and other utensils. Then revise to state "Countertops, stovetops, sinks, and exterior surfaces of appliances, refrigerators, and ice machines."

5. Delete the surface "people" and the phrase "such as" from the statement: "Large inflatable nonporous plastic and rubber structures: animals, promotional items, moonwalk, slides, obstacle coarse play and exercise equipment." Also delete "people" and "such as" from the directions for this site on page five.

6. Delete the following sites which are too broad and include food contact surfaces: beer fermentation and holding tanks, bottling or pre-mix dispensing equipment, citrus processing equipment and holding tanks.

7. Revise the phrase "Telephones and booths" to read "Telephones and Telephone booths".

8. Revise to state "...bathtubs and glazed tiles..."

9. Revise to state "This product meets AOAC efficacy standards for hard surface non"

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food contact sanitizers.”

10. Delete the parenthesis surrounding the statement which begins: “This product is not to be used as a terminal sterilant/high...”

11. Your label must be revised to more clearly identify the contact times in the disinfection section of the label. Revise the directions for use in hospitals by inserting the following phrase: “...Or mix a 4 ounce packet with 2 gallons of water. *Treated surfaces must remain wet for 10 minutes.*”

12. Delete the following organism which has not been supported by data: *Klebsiella pneumoniae* (Oxacillin Resistant).

13. Revise your label such that the following ATCC number is associated with the name of each of these organisms. *Enterococcus faecalis* (ATCC 19433), *Escherichia coli* (ATCC 8739), *Klebsiella pneumoniae* (ATCC 4352), *Listeria monocytogenes* (ATCC 984), *Salmonella typhi* (ATCC 6539), *Salmonella typhimurium* (ATCC 14028), *Serratia marcescens* (Environmental Isolate), *Shigella dysenteriae* (ATCC 9361), *Shigella flexneri* (ATCC 12022), *Shigella sonnei* (ATCC 9290), Methicillin-Resistant *Staphylococcus aureus* (ATCC 33591), *Escherichia coli* 0157:H7 (ATCC 35150), *Escherichia coli* (Oxacillin Resistant) (ATCC 1344), and *Staphylococcus aureus* Multiple Antibiotic Resistant (Clinical Isolate)

14. Revise the label to include the ATCC number for Transmissible Gastroenteritis.

E. Make the following revisions to page five:

1. Add the following statement to the Directions for Use section of the label. “This product is not for use to disinfect, sanitize or clean eating equipment, glassware or dishware.”

2. Revise the phrase in the Disinfection/Fungicidal/Virucidal directions to read “Prepare a fresh solution *at least* daily...”

3. Revise the “Disposal of Infectious Materials” statement as follows: “...be autoclaved and disposed of according to *Federal, State, and Local* regulations for infectious waste disposal.”

4. Clarify your directions for “General Deodorization” by adding the statement: “*Excess material should be wiped up or allowed to air dry.*”

5. Revise the final statement of the directions for use to control mold and mildew on large inflatable structures as follows: “Do not *use* equipment until treatment has been absorbed, set or dried.”

6. Revise the directions for “Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions” as follows: “*Prepare fresh solution daily* or more often...”

7. Revise the directions for use in toilet bowls from the concentrate to include:

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“Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow to stand...”

F. Make the following revisions to page six:

- 1. Revise the first statement by correcting the use rate to read “1 to 4 ounces per gallon” and to identify “non-food contact glass surfaces.”
- 2. Revise the second statement to state “When using a coarse spray device...”
- 3. Revise the heading for the bath directions to read “For *Disinfecting Hard Nonporous Bath and Therapy Equipment*” such that this label will agree with Reg. No. 10324-113. Revise by moving the statement “Product to surface contact time must be at least 10 minutes for proper disinfection.” to occur immediately prior to: “After the unit has been thoroughly *disinfected*, drain...”
- 4. Revise the heading “To Disinfect Food-Processing Premise” to read “To Disinfect Food-Processing and *Tobacco* Premise”.
- 5. Revise the section to “Shoe Bath Sanitizer” to end as follows: “Change the *sanitizer* solution in the bath daily...”
- 6. Revise the heading for “Dressing Plant Disinfectant Directions” to include the site “Rendering Plants.”

G. Make the following revisions to page seven:

- 1. Revise the directions for “Commercial Florist Use” to state: “Treated surfaces must remain wet for 10 minutes. *Allow to air dry.*”
- 2. Delete the contradictory statement from the directions for use on mushroom farms: “Apply this product only to surfaces that DO NOT come in contact with the crop.” This statement is not necessary.
- 3. You have cited the EPA Reg. No. 1839-120 to support the use of this product for “Humidifier Bacteria/Algae Treatment”. Revise your rate to agree with the cited label: add 0.4 ounces of this product for every gallon of water in the tank. Also make this rate change to the refill directions.

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H. Make the following revisions to page eight:

1. Revise the directions for "Special Instructions for Cleaning Carpet Against Causing Bacteria" and by revising your rates to agree with the cited label EPA Reg. No. 61178-1. Revise to state the rate of 1 ounce per gallon of water for use in portable extraction units and 2 ounces per gallon of water for rotary floor machines.

2. Revise the rates for carpet sanitizing to agree with the label for Reg. No. 61178-1 as follows: "Mix 1 ounce of product per gallon of water." and "For rotary floor machines, mix 2 ounces per gallon of water and spray..."

3. You may retain the instructions on the left panel of page seven as a carpet sanitizer but please be advised that when the Agency proposed 40 CFR Part 152/156 guidelines are finalized you will no longer be allowed to use the term "sanitizer" when referring to non-public health organisms.

4. Since you have submitted a non food contact sanitization study for Klebsiella pneumoniae and Staphylococcus aureus which supports a contact time of 3 and 5 minutes, revise the directions "To Sanitize (and Deodorize)" by changing the contact time from 60 seconds to 3 minutes. Alternately you may submit new data to support the 60 second claim. In addition, delete the statement beginning: "A rinse is required for surfaces in direct contact..." and ending "...cutlery and other utensils." You have not provided data to support food contact sanitization and thus this product may not be used as a sanitizer on food contact surfaces.

5. In the directions for "Sanitizing Hatchery Rooms Using Fogging Devices" add the following statement: "Thoroughly clean all surfaces with soap or detergent and rinse with water." immediately following "Empty all troughs, racks, and other feeding and watering appliances." Also revise your use rate as follows: "Mix four of this product to five parts water (1.5 gallons of this product to 2.5 gallons of water)."

6. In the directions for "Sanitizing Hatchery Rooms Using Fogging Devices" delete the statement "Do not allow people to contact...(30-60 minutes after fogging is completed)". This statement is not in agreement with the statement with follows that people are not to enter the area for two hours.

7. In the directions for "Sanitizing Incubators and Hatchers Using Fogging Devices" add the following statement: "When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed set of dried."

Submit storage stability and corrosion characteristics studies to the Agency for review.

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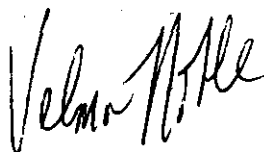
EPA Reg. No. 10324-120

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.

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

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

Sincerely,



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

Enclosure: stamped label  
7510C:T.Lantz:12/14/01:10324-120

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

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

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

**ENVIRONMENTAL HAZARD**

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

**PHYSICAL OR CHEMICAL HAZARDS**

Do not mix with oxidizers, anionic soaps and detergents

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

**STORAGE AND DISPOSAL**

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

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

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

**CONTAINER DISPOSAL** - (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

**STORAGE AND DISPOSAL**

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

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

**VIAQUAT 64 EBC**

Disinfectant, Cleaner, Mildewstat, Fungicide, Sanitizer (nonfood contact surfaces) Virucide\*, Deodorizer for Hospitals, Institutional, Industrial and School Use. Effective in hard water up to 200 ppm hardness (Calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

Formulated for effective Poultry Sanitation.  
Formulated for effective Swine Premise Sanitation.  
Formulated for effective Mushroom Farm Sanitation.

**ACTIVE INGREDIENTS:**

Alkyl (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 5%, C<sub>18</sub> 5%)dimethyl benzyl ammonium chloride ..... 2.7125%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)dimethyl ethylbenzyl ammonium chloride ..... 2.7125%

**INERT INGREDIENTS:** ..... 94.5750%

**TOTAL** ..... 100.0000%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER PELIGRO**

See left panel for additional precautionary statements

**Statement of Practical Treatment**

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

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

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

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

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

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

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

721 W. Algonquin Road  
Arlington Heights, IL 60005  
847-290-1621

Toll Free:  
1-800-362-1855

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

BATCH NO



DEC 14 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-1020

NET CONTENTS

8118



This product contains no phosphorous.

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

This product maximizes labor results by effectively controlling odors.

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

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.

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

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

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

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

This product will not leave a grit or soap scum. Will not cause swelling of transducer membrane or harm compressor plates.

This product is a versatile Disinfectant for Veterinarian, Animal Care and Agricultural applications.

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

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors.

This product is recommended for use as a disinfectant on hard, nonporous surfaces (at 850 ppm active)

This product is recommended for use in household and commercial humidifiers. Use of this product will control a build-up of slime and unpleasant (malodors) odors.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

This product is formulated to a neutral pH, yet provides effective cleaning strength that will not dull high gloss floor finishes with repeated use.

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

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

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

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

Use this product to clean, sanitize and disinfect non-porous personal protective safety equipment, protective headgear, 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. (Caution: Cleaning at the recommended 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 counter tops.

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

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Use this product to clean, disinfect and deodorize floors, 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:

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, babies breath, sweet peas, freesia and alstroemeria.

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

Floor cleaner.

One step cleaner.

Cleans everyday kitchen messes.

Cleans kitchen surfaces and food preparation areas.

Leaves (no) (low) residue.

Cleans and shines.

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

Safe for most surfaces. For a cleaner, fresher household. Cleans without bleaching. 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).

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grim. Kills bacteria dish soap can't.

E. coli, Salmonella, and Staph are common germs found where food is prepared and stored. This product kills these harmful germs and helps prevent the spread of food borne contamination on all kitchen surfaces.

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

Antibacterial. Kills Athlete's Foot fungus in the bathroom.

Hospital use Disinfectant. Institutional Disinfectant (Sanitizer).

Kills 99.9% of bacteria (germs) like Salmonella, E. coli, and Klebsiella on kitchen surfaces (and bathroom surfaces) and floors) in less than 5 minutes.

Kills germs while it cleans.

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

Eliminates (kills) 93% of bacteria (germs) (such as) (Salmonella and E. coli) commonly found on kitchen (and bathroom) surfaces (less than 5 minutes).

Effective sanitizer in the presence of 5% serum contamination.

Effective sanitizer in the presence of soils.

This product has been laboratory tested and found to be effective.

This product is recommended 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 recommended for Swine Premise Sanitation:

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

Maquat 64 EBC 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, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpools, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities
- 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, photo copy centers, bicycle shops, auto repair centers
- Computer manufacturing sites, toy factories
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms
- Police stations, courthouses, municipal government buildings, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Public restrooms, travel rest areas, shower rooms, shower stalls, bathrooms
- Hotel, motels, dormitories
- Kitchens, bathrooms and other household areas.
- Institutions, schools and collegés, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, gyms, gymnasiums
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities

- Heath clubs, spas, tanning spas, tanning beds, massage/facial salons, hair/nail salons, pedicure footbaths, 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.
- Camp grounds, play grounds, 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
- Fishery, Milk, Citrus, Fruit, Vegetable, Ice Cream, Tobacco and Potato Processing Plants
- 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, airline terminals, shipping terminals, public transportation
- Commercial florist and flower shops
- Basements, cellars, bedrooms, attics, living rooms, porches, foundations, steps, baseboards, window sills, plumbing fixtures

This product may be used on washable hard nonporous surfaces such as:

- Food preparation and storage areas.
- Dishes, glassware, silverware, cooking utensils, plastic and other nonporous cutting boards, coolers, ice chests, refrigerator bins used for meat, vegetables and egg, Tupperware®
- Kitchen equipment such as food processors, blenders, cutlery, trash compactors and other utensils.
- Countertops, Slurppy® machines, stovetops, sinks, appliances, refrigerators, ice machines.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass, granite, marble, plastic, chrome and vinyl.
- Enameled surfaces, painted woodwork, Formica®, vinyl and plastic upholstery.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large inflatable nonporous plastic and rubber structures such as animals, people, promotional items, moonwalk, slides, obstacle course play and exercise equipment.
- Beer fermentation and holding tanks, bottling or pre-mix dispensing equipment.
- Citrus processing equipment and holding tanks.
- Picnic tables and outdoor furniture.
- Telephones and booths
- Highchairs
- Drinking fountains.

- Shower stalls, shower doors and curtains, bathtubs and tiles, chrome plated intakes, toilets, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, porcelain tile and restroom fixtures.
- Kennels kennel runs, cages floors, conductive flooring.

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants at 200 ppm water hardness.

This product meets AOAC efficacy standards for hard surface sanitizers.

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

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

#### DIRECTIONS FOR USE

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

(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)

#### PREPARATION OF USE SOLUTION:

For water hardness up to 200 ppm add 2 ounces per gallon (16 milliliters per liter) of water (1:64) to disinfect hard non-porous surfaces OR mix a 4 ounce packet with 2 gallons of water.

This product is a Hospital Use Disinfectant at 2 ounces per gallon (16 milliliters per liter), (1:64 dilution), modified in the presence of 200 ppm hard water.

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

*Campylobacter jejuni*  
*Enterococcus faecalis*  
*Enterococcus faecalis* (Gentamycin Resistant)  
*Enterococcus faecalis* (Vancomycin Resistant) (VRE)  
*Enterococcus faecium* (Vancomycin Resistant) (VRE)  
*Escherichia coli*  
*Escherichia coli* (Methicillin Resistant)  
*Escherichia coli* (Oxacillin Resistant)  
*Escherichia coli* 0157:H7  
*Klebsiella pneumoniae*  
*Klebsiella pneumoniae* (Methicillin Resistant)  
*Klebsiella pneumoniae* (Oxacillin Resistant)  
*Listeria monocytogenes*

*Pseudomonas aeruginosa*  
*Salmonella choleraesuis*  
*Salmonella typhi*  
*Salmonella typhimurium*  
*Serratia marcescens*  
*Shigella dysenteriae*  
*Shigella flexner*  
*Shigella sonnei*  
*Staphylococcus aureus*  
*Staphylococcus aureus* Multiple Antibiotic Resistant  
*Staphylococcus aureus* (Methicillin Resistant) (MRSA)  
*Staphylococcus aureus* (Vancomycin Sensitive)  
*Streptococcus pyogenes*

Avian influenza/Turkey/Wisconsin  
 Infectious Bronchitis Virus  
 Infectious Bovine Rhinotracheitis virus (IBR)  
 Canine Distemper  
 Equine Arteritis virus  
 Hepatitis B Virus (HBV)  
 Herpes Simplex Type 1  
 Herpes Simplex Type 2  
 HIV-1 (AIDS Virus)

Infectious Avian Laryngotracheitis  
 Influenza A/PR Virus  
 Newcastle disease virus  
 Porcine Respiratory & Reproductive Virus (PRRSV)  
 Porcine Rotavirus  
 Pseudorabies virus  
 Transmissible Gastroenteritis (TGE)  
 Vaccinia virus

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**Disinfection/Fungicidal/Virucidal Directions:**

Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications use a coarse spray device. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breath spray mist.

Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**Disinfection/Fungicidal/Virucidal directions:**

Add 2 ounces per gallon (16 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution 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
1/2 ounce	1 quart
1 ounce	1/2 Gallon
2 ounces	1 gallon
5 ounces	2 1/2 gallons
10.0 ounces	5 gallons
20.0 ounces	10 gallons

At 2 ounces per one gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 200 ppm hard water (CaCO<sub>3</sub>) and 100% serum this product was proven to be effective against Hepatitis B Virus with a contact time of 10 minutes.

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

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

**PERSONAL PROTECTION:** Clean-up should always be done wearing protective latex gloves, gowns, masks and eye protection.

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

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**CONTACT TIME:** Leave surface wet for 10 minutes with 2 ounces per gallon (16 milliliters per liter) use solution.

**General Deodorization:** To deodorize, add 2 ounces of this product per gallon of water (or equivalent use dilution) (850 ppm active quat).

**For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment:** It is especially important to preclean for the product to perform properly. Then, apply a wetting concentration of 6 ounces of this product per gallon of water (or equivalent use dilution) (2,542 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".

**Mold and Mildew Control Directions:**

Add 2 ounces per gallon (16 milliliters per liter) of water to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear.

**To control the growth of mold and mildew on large inflatable nonporous plastic and rubber structures** (such as animals, people, promotional items, moonwalk, slides, obstacle course play and exercise equipment). Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon (850 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house employ equipment until treatment has been absorbed, set or dried.

**Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions:** Immerse precleaned 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) (850 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared daily or more often if solution becomes cloudy or soiled.

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

**Non-Acid Toilet Bowl Disinfection/Cleaner Directions:**

Remove gross filth prior to disinfection.

**From concentrate:**

Add 2 ounces (16 milliliters per liter) to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

**From use solution:**

Empty toilet bowl or urinal and apply 2 ounces per gallon (16 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

**For heavy duty use:**

Empty toilet bowl or urinal and apply 8 ounces per gallon (64 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

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**Cleaning/Deodorizing Directions:**

Add 2 to 4 ounces per gallon (16 to 32 milliliters per liter) of water to clean and deodorize windows, mirrors and glass surfaces.

**Use a coarse spray device.** Spray 6-8 inches from surface, rub with sponge or cloth. Do not breath spray mist.

**Ultrasonic Bath Disinfectant Directions:** Use this product to disinfect hard (inanimate) nonporous noncritical objects compatible with Ultrasonic cleaning units. Pour fresh solution of 2 ounces per gallon of water (or equivalent use dilution) (850 ppm active quat) directly into bath chamber. Preclean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturer's 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 Cleaning Hard Nonporous 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 10 ounces of this product for each 5 gallons of water (2 ounces per one gallon) (850 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. After the unit has been thoroughly cleaned, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse. Product to surface contact time must be at least 10 minutes for proper disinfection.

**To Disinfect Food-Processing Premises:** floors, walls and storage areas, add 2 ounces of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications use a coarse spray device. Allow to remain wet for 10 minutes, then remove excess liquid. For sprayer applications, use a coarse mist or spray. Before using this product, food products and packaging materials must be removed from area or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**To disinfect food service establishment food contact surfaces:** countertops, appliances, tables add 2 ounces of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Before using this product, food products and packaging materials must be removed from area or carefully protected. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications use a coarse spray device. Allow to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water.

**For use on non-food contact surfaces as a general disinfectant in the brewery industry** use 2 ounces of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Follow the general disinfectant directions above.

**Directions for Fogging:** Dairies, beverage and food processing plants. To sanitize hard nonporous room surfaces as an adjunct to acceptable manual cleaning and disinfecting as described above. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cubic feet of room area with a product solution containing 3 ounces product to 1 gallon of water (or equivalent use dilution)

(1,271 ppm). Vac 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 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.**

**Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels Directions:** Remove all animals and feeds from premises vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, 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 2 ounces of this product per gallon of water (or equivalent use dilution) (850 ppm active quat). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of 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:** For disinfection/fungicide/virucide use 2 ounces of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and this product. For sprayer applications, use a coarse mist or spray. Use 2 ounces of this product per gallon of water for disinfection/fungicide/virucide. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**SHOE BATH SANITIZER:** 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 2 ounces of this product per gallon (16 milliliters per liter) of water solution for 60 seconds prior to entering area. Change the disinfectant solution in the bath daily or sooner if solution appears dirty.

**DRESSING PLANT USE:** Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution, 2 ounces of this product per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

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### Fungicidal Activity

At 2 ounces per gallon use-level, (or equivalent use dilution) (850 ppm active quat) this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) on inanimate surfaces in the presence of 5% blood serum and 200 ppm water hardness as CaCO<sub>3</sub>.

### 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, chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting or virucidal solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, 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.

**Disinfecting Potato storage area and equipment:** Remove all potatoes prior to disinfection of potato storage area and equipment. Preclean 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.

**Veterinary Clinics/Animal Life Science Laboratory/Pet Shop/Kennels/Breeding and grooming Establishment/Tack Shops Disinfection Directions:** For cleaning and disinfecting the following hard nonporous 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 2 ounces per gallon of water (or equivalent dilution) (850 ppm active quat) for a period of 10 minutes. 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.

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

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

For heavily soiled areas, a preliminary cleaning is required.

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

Treated surfaces must remain wet for 10 minutes.

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

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

### 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 should be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use.

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

Apply this product only to surfaces that **DO NOT** come in contact with the crop. **DO NOT APPLY TO THE MUSHROOM CROP, COMPOST OR CASING.** Rinse treated surfaces with potable water before they contact the crop, compost or casing.

**Dairy Cow Application Directions:** The udders, flanks and teats of dairy cows can be washed with a solution of 2 ounces of this product per gallon of warm water. Use a fresh towel for each cow. Avoid contamination of wash solution by dirt and soil. Do not dip used towel back into wash solution. When solution becomes visibly dirty, discard and provide fresh solution.

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

Not for use in heat vaporizing or atomizing type humidifiers.

### WATER DAMAGE RESTORATION

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 allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

**Carpets, carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling:** For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2 to 4 ounce(s) of the product per gallon of water, (847-1625) ppm active quat allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

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

**For portable extraction units:** Mix 2 ounces of this product per gallon of water.

**For truck mounted extraction machines:** Mix 24 ounces of the product per gallon of water and meter at 4 gallons per hour.

**For rotary floor machines:** 4 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.

#### **CARPET SANITIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE**

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

Vacuum carpet thoroughly prior to application. Mix 2 ounces of product per gallon of water. Follow the Injection and/or Extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 4 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

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

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

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

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

#### **Sanitizing Non-Food Contact Surface Directions:**

Add 2 ounces per gallon (16 milliliters per liter) of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 3 minutes. Allow to air dry

*Escherichia coli*  
*Escherichia coli O157:H7*  
*Enterococcus faecalis*

*Klebsiella pneumoniae*  
*Staphylococcus aureus*  
*Salmonella choleraesuis*

This product is not for use to disinfect or clean eating utensils, glassware and dishes.

**To Sanitize (and Deodorize):** Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications use a coarse spray device. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breath spray mist. Let stand for 60 seconds. Then wipe. A rinse is required for surfaces in direct contact with food (such as food preparation areas, cutting boards, coolers, ice chests, refrigerator meat and vegetable and eggs bins, Tupperware, kitchen equipment like food processors, blenders, cutlery and other utensils.)

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

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Close room off so fog is confined to room to be treated. Mix four parts this product to five parts water (2 gallon this product to 2½ gallons water). Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

#### **SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES**

Mix 24 ounces of this product to 122 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breath this fog and do not enter until the fog has settled (30-60 minutes after fogging is completed). It is acceptable to fog setters and hatchers with 2 ounces per gallon solution of this product 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. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**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.**

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FOUR OUNCE

NET TO BE USED WITH MASTER CONTAINER LABEL

MIX EACH PACKET WITH 2 GALLONS OF WATER

## MAQUAT 64 EBC

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

NET CONTENTS: 4.0 FLUID OZ.

.....  
**ACTIVE INGREDIENTS:**

Alkyl (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 5%, C<sub>18</sub> 5%)  
dimethyl benzyl ammonium chloride..... 2.7125%  
Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%)  
dimethyl ethylbenzyl ammonium chloride ..... 2.7125%

**INERT INGREDIENTS:** ..... 94.5750%

**TOTAL:** ..... 100.0000%

.....  
**KEEP OUT OF REACH OF CHILDREN**

### DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND  
USE DIRECTIONS

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

#### MASON CHEMICAL COMPANY "THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road  
Arlington Heights, IL 60005



847-290-1621  
Toll Free:  
1-800-362-1855

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