

10324-154

06/07/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Elizabeth Tannehill  
Regulatory Manager  
Mason Chemical Company  
721 W. Algonquin Road  
Arlington Heights, IL 60005

JUN 7 2005

SUBJECT: Maquat 64-NHQ  
EPA Registration Number: 10324-154  
Application Date: December 13, 2004  
Receipt Date: December 14, 2004

Dear Ms. Elizabeth Tannehill:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

- change use rate for public health pests

**Acceptable Data**

You have cited efficacy data performed on 10324-141 to support this product for *Candida albicans* and *Trichophyton mentagrophytes* (MRIDs 464261-01 and 464261-02). This data supports the use rate of 1:64 for this product.

**Conditions**

1. As was previously requested in the Registration Notice for this product, revise your copy of the End Use Matrix such that the organism *Klebsiella oxytoca* is also included as one of the organisms supported by the MRID 46036203. Please be sure this correction is made on future submissions.

CONCURRENCES							
SYMBOL	7510C						
SURNAME	J. Tannehill						
DATE	6/7/05						

2. Revise page two of your label by changing the statement: "Bars, kitchens, restaurants and bars." to read: "Bars, kitchens and restaurants."

3. Revise page six of your label by adding the Registration Number assigned to this product: "10324-154" directly below the product name on the 2 ounce package label.

4. Add the following phrase to the top of the 2 ounce package label: "Mix each packet with 4 gallons of water for disinfection."

**General Comments**

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



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

Enclosure: Stamped label  
7510C:T.Lantz:6/6/05:10324-154a

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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

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

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

**ENVIRONMENTAL HAZARD**

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

**PHYSICAL OR CHEMICAL HAZARDS**

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

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

**STORAGE AND DISPOSAL**

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

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

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

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

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

**STORAGE AND DISPOSAL**

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

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

**MAQUAT<sup>®</sup> 64-NHQ**

**One Step Disinfectant  
Germicidal Detergent and Deodorant**

Disinfectant, Cleaner, Mildewstat, Fungicide, Virucide\*, Deodorizer (Odor Counteractant) (Odor Neutralizer) for Hospitals, Nursing Homes, Households, Food Service, Commercial, Institutional, and Industrial Use (Only) (Suitable) For Use in Meat and Poultry Plants.

Non-Dulling to Floors (Floor Finishes).

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

Meets OSHA Bloodborne Pathogen Standard for HIV and HBV.

**ACTIVE INGREDIENTS:**

Didecyl Dimethyl Ammonium Chloride .....2.535%  
n-Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride .....1.690%

**INERT INGREDIENTS:** .....95.775%

**TOTAL** .....100.000%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

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

**First Aid**

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

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

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

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

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

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

**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. 10324-154

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

(Product of USA) (Made in the USA)



ACCEPTED  
with COMMENTS  
EPA Label Desk  
JUN 7 2005

Under Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-154

NET CONTENTS

BATCH NO

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

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

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

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

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

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

This formulation is recommended for use in:

- Hospitals, medical and dental offices, nursing homes.
- Public rest rooms, institutions, schools, colleges, commercial and industrial institutions.
- Bars, kitchens, restaurants and bars.
- Airports, transportation terminals.
- Food processing plants, food storage areas, federally inspected meat and poultry plants, poultry farms, turkey farms, dairy farms, hog farms.
- Hotels and motels.
- Veterinary clinics, animal life science laboratories, zoos, equine farms, tack shops, pet shops, kennels, breeding establishments, grooming establishments.
- Funeral homes.

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

For use in households.

This product contains no phosphorous.

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

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

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

This product improves labor results by effectively controlling odors.

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

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

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

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

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

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

This product is designed for use on (Use daily on) (the following) (hard, non-porous environmental surfaces): vinyl, painted surfaces, plastic (surfaces), glazed ceramic, glazed porcelain, chrome, stainless steel, aluminum, laminated surfaces and baked enamel surfaces associated with floors, walls, ceilings, tables, chairs, countertops, telephones, fixtures, glazed tile, toilets, urinals, sinks, shower rooms and locker rooms (areas) – any washable (food and non-food contact) surface where disinfection is required. This product's non-dulling formula eliminates the time and labor normally required for rinsing. A potable water rinse is required for food contact surfaces. Do not use on glasses, dishes and utensils.

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

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

Recommended for use in:

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

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

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

### Hospitals/Health Care Facilities:

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

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

This product is a Hospital Disinfectant at 2 ounces per gallon (16 milliliters per liter), (1:64 dilution), modified in the presence of 400 ppm hard water with a 10 minute contact time.

(Or)

When used as directed at a 1:64 dilution (2 ounces per gallon of water), (16mL/L), this product contains 660 ppm of active quaternary germicide making it highly effective against a wide variety (broad spectrum) of pathogenic microorganisms (including bacteria, antibiotic resistant bacteria, viruses, fungi, mold and mildew).

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

(Or)

Using approved AOAC test methods (under Good Laboratory Practices, [GLP's]), in the presence of 400 ppm hard water, 5% serum load and a 10 minute contact time, this product kills the following on hard, non-porous inanimate surfaces:

### Bacteria

*Acinetobacter baumannii* ATCC 19003  
*Acinetobacter lwoffi* ATCC 9957  
*Citrobacter freundii* ATCC 8090  
*Enterobacter agglomerans* ATCC 27155  
*Enterococcus faecalis* ATCC 19433  
*Escherichia coli* ATCC 11229  
*Fusobacterium necrophorum* ATCC 27852  
*Klebsiella pneumoniae* ATCC 13883  
*Micrococcus luteus* ATCC 14452  
*Pasturella multocida* ATCC 12947  
*Proteus vulgaris* ATCC 9920  
*Pseudomonas cepacia* ATCC 25416  
*Salmonella choleraesuis* ATCC 23564  
*Salmonella choleraesuis* serotype putorum ATCC 19945  
*Salmonella typhi* ATCC 6539  
*Serratia marcescens* ATCC 14756  
*Shigella flexneri* ATCC 12022  
*Shigella sonnei* ATCC 25931  
*Staphylococcus aureus* ATCC 14154  
Methicillin Resistant *Staphylococcus aureus* (MRSA) ATCC 33592  
*Staphylococcus aureus* sub species *aureus* ATCC 33586

*Acinetobacter lwoffi* ATCC 15309  
*Bordetella bronchiseptica* ATCC 10580  
*Enterobacter aerogenes* ATCC 13048  
*Enterobacter cloacae* ATCC 13047

*Escherichia coli* Tetracycline Resistant ATCC 47041  
*Klebsiella oxytoca* ATCC 13182  
*Listeria monocytogenes* ATCC 19117  
*Micrococcus luteus* ATCC 4696  
*Proteus vulgaris* ATCC 13315  
*Pseudomonas aeruginosa* ATCC 15442  
*Salmonella choleraesuis* ATCC 10708  
*Salmonella choleraesuis* ATCC 4931  
*Salmonella enteritidis* ATCC 4931

*Serratia marcescens* ATCC 9103  
*Shigella flexneri* ATCC 9380  
*Staphylococcus aureus* ATCC 6538  
*Staphylococcus aureus* ATCC 25923  
*Staphylococcus epidermidis* ATCC 14990  
*Staphylococcus haemolyticus* ATCC 29970

Antibiotic resistant *Staphylococcus epidermidis* ATCC 51625  
*Streptococcus pneumoniae* Penicillin Resistant ATCC 51915  
*Streptococcus pyogenes* ATCC 19615  
Tetracycline Resistant *Pseudomonas aeruginosa* ATCC 27853  
Vancomycin Resistant *Enterococcus faecalis* (VRE) ATCC 51299  
Vancomycin Intermediate Resistant *Staphylococcus aureus* (VISA) ATCC 5836

*Streptococcus agalactiae* ATCC 13813

Tetracycline Resistant *Escherichia coli* ATCC 47041  
*Vibrio cholera* ATCC 11623  
*Yersinia enterocolitica* ATCC 23715

### Viruses

Avian Infectious Bronchitis virus Beaudette IB42  
Canine Coronavirus  
*Chlamydia psittaci* ATCC VR-125  
Canine Distemper virus ATCC VR-128  
Hepatitis C Virus  
Herpes Simplex Virus Type 2 ATCC VR-734  
Infectious Bovine Rhinotracheitis virus ATCC VR-188  
Pseudorabies virus ATCC VR-135  
Transmissible Gastroenteritis virus

Human Coronavirus  
Feline Picornavirus ATCC VR-649  
Hepatitis B Virus  
Herpes Simplex Virus Type 1 ATCC VR-773  
Human Immunodeficiency Virus type 1 (HIV 1)  
Influenza A virus ATCC VR-544  
Respiratory syncytial virus ATCC VR-26  
Vaccinia virus ATCC VR-119

### Fungi

When used as directed at a 1:64 dilution (2 ounces per gallon of water) (or equivalent use dilution), this product is highly effective against the following:

*Aspergillus niger* (ATCC 16404)  
*Candida albicans* ATCC#10231

*Trichophyton mentagrophytes* ATCC#9533

### Hepatitis Virus

At 2 ounces of this product per gallon of water (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% serum this product was proven to be effective against (Duck) Hepatitis B Virus and Hepatitis C Virus with a contact time of 10 minutes.

## 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.

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

Not for use on medical devices or medical equipment surfaces.

## DISINFECTION

### PREPARATION OF USE SOLUTION

For water hardness up to 400 ppm add 2 ounces per gallon (16 milliliters per liter) of water (1:64) to disinfect hard, non-porous surfaces OR mix a 2 ounce packet with 1 gallons of water. Treated surfaces must remain wet for 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.

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

(Or)

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

For heavily soiled areas, a preliminary cleaning is required.

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

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

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

**Mold and Mildew Control:** To control the growth of mold and mildew and their odors, use at a rate of 1:16 on hard, non-porous surfaces, apply use solution to thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears.

**To Kill Fungi:** Pre-clean heavily soiled areas. Apply at a rate of 1:64 to hard, non-porous environmental surfaces. Allow surface to remain wet for ten (10) minutes. Wipe surfaces (and let air dry).

*(Or use alternate Fungicidal directions.)*

#### **FUNGICIDAL DIRECTIONS**

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Apply to hard, non-porous surfaces at a 1:64 dilution, thoroughly wetting all surfaces for a contact time of at least 10 minutes. Wipe surfaces or let air dry.

**Cleaning And Disinfection:** For all general cleaning and disinfection, use 2 ounces of this product per one gallon of water (1:64 solution). 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 precleaning step is required. Prepare a fresh solution after each use.

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

For heavy-duty use, add 8 ounces per gallon (63 milliliters per liter) of water (1:16) to clean hard, non-porous surfaces.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment if heavily soiled to ensure proper surface contact. Add 2 ounces of this product to one gallon of water. Gently mix for uniform solution. Apply solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces should remain wet for ten (10) minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134).

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

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/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 must be thoroughly cleaned from surfaces and objects before application of this product.

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

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

#### **PUBLIC RESTROOMS**

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

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

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

This product is a (concentrated) non-acid (bowl and) bathroom cleaner, which cleans, disinfects and deodorizes in one easy step. It cleans, disinfects and deodorizes surfaces by killing many odor-causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use (Use daily) on ([hard, non-porous environmental) restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms and locker rooms.

Remove gross filth prior to disinfection.

**From Concentrate:** Add 1½ ounces to the toilet bowl (¾ gallon water) and mix. Brush thoroughly over exposed surfaces and under the rim. Allow to stand for 10 minutes and flush.

*(Or use alternate Concentrate Use directions.)*

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

1. Pre-clean heavily soiled areas.
2. Add 1½ ounces into toilet bowl (¾ gallon of water) for a 1:64 dilution.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

**From Use Solution:** Preclean. 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, allow to stand for 10 minutes and flush. For sprayer applications, use a coarse spray device and swab all areas after spraying.

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

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

1. Pre-clean heavily soiled areas.
2. Empty toilet bowls by forcing water through the trap. Apply Use Solution to exposed surfaces in toilet bowls and urinals.
3. Swab entire surface area especially under the rim.

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4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

**For Heavy Duty Cleaning:** Preclean. 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. Allow to stand for 10 minutes and flush. For sprayer application, use a coarse spray device and swab all areas after spraying.

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

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

1. Pre-clean heavily soiled areas.
2. Apply use solution to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for ten (10) minutes.  
**Special instructions for foam guns:** Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. Note: See foam gun instructions for more information. Make sure setting is set for a 1:64 dilution. Once in place, squeeze the handle to disperse foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes.
3. Scrub using a deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

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

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

**Note:** Rinsing is not necessary unless floors are to be coated with finish or restorer. All food contact surfaces, such as appliances and kitchen countertops, must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

#### **FOOD SERVICE**

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

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

**Directions for Food Processing Plants:** For use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. Follow Disinfection directions.

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

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

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

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

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

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

#### **CLEANSING OF BODY SURFACES AND BODY ORIFICES OF HUMAN REMAINS:**

This product removes secretions, soil and blood, along with their accompanying malodor, from the surfaces and orifices of human remains. Using a sponge or washcloth, bathe the entire body with a use solution of 2 ounces per gallon of water. A soft hand brush may be employed on surfaces other than the face. Prepare a fresh solution for each (cadaver) remains or when solution becomes visibly dirty or diluted.

#### **ANIMAL HOUSING FACILITIES**

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

This product cleans, disinfects and deodorizes (hard, non-porous environmental surfaces) in one step. Its non-abrasive formula is designed for use on (Use daily on) (Use daily to clean and disinfect) (hard, non-porous surfaces): plated or stainless steel, aluminum, chrome, glazed porcelain, glazed tile, laminated surfaces (associated with floors, walls, countertops, cages, kennels, animal equipment) found in (barns, pens and stalls) animal housing facilities.

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

1. Remove all animals and feeds from areas being treated.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap and detergent and rinse with water.
5. Apply fresh use solution to floors, walls, cages and other washable hard, non-porous environmental surfaces. For smaller surfaces, use a coarse trigger spray bottle to spray all surfaces with solution until wet. To disinfect, all

surfaces must remain wet for ten (10) minutes. ventilate buildings and other closed spaces.

6. Do not house animals or re-employ equipment until product has dried.
7. For disinfection of feed racks, troughs, automatic feeders, fountains and watering appliances scrub with use-solution, let stand ten (10) minutes. Then thoroughly scrub all treated surfaces with soap and detergent and rinse with potable water before reuse.

#### REFILLS

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

## 2 OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL

MIX EACH PACKET WITH 1 GALLON OF WATER

# MAQUAT<sup>®</sup> 64-NHQ

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

NET CONTENTS: 2 FLUID OZ.

#### ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride ..... 2.535%  
n-Alkyl (C14 50%, C12 40%, C16 10%)  
dimethyl benzyl ammonium chloride ..... 1.690%

INERT INGREDIENTS: ..... 95.775%  
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

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# MASON

## Quaternary Specialists

### Maquat® 64-NHQ Data Sheet

When used as directed at a 1:64 dilution (2 ounces per gallon of water), this product contains 660 ppm of active quaternary germicide making it highly effective against a wide variety (broad spectrum) of pathogenic bacteria and viruses.

Using approved AOAC test methods (under Good Laboratory Practices, [GLP's], in the presence of 400 ppm hard water, 5% serum and 10 minutes contact time, this product kills the following on hard non-porous inanimate surfaces:

**Bacteria (Bactericidal Activity) – (kills on hard, non-porous inanimate surfaces)**

- |   |   |
|---|---|
| <i>Acinetobacter baumannii</i> ATCC 19003                                       | <i>Acinetobacter lwoffii</i> ATCC 15309                   |
| <i>Acinetobacter lwoffii</i> ATCC 9957  | <i>Bordetella bronchiseptica</i> ATCC 10580               |
| <i>Citrobacter freundii</i> ATCC 8090   | <i>Enterobacter aerogenes</i> ATCC 13048                  |
| <i>Enterobacter agglomerans</i> ATCC 27155                                      | <i>Enterobacter cloacae</i> ATCC 13047                    |
| <i>Enterococcus faecalis</i> ATCC 19433   |   |
| <i>Escherichia coli</i> ATCC 11229  | <i>Escherichia coli</i> Tetracycline Resistant ATCC 47041 |
| <i>Fusobacterium necrophorum</i> ATCC 27852                                     | <i>Klebsiella oxytoca</i> ATCC 13182                      |
| <i>Klebsiella pneumoniae</i> ATCC 13883   | <i>Listeria monocytogenes</i> ATCC 19117                  |
| <i>Micrococcus luteus</i> ATCC 14452  | <i>Micrococcus luteus</i> ATCC 4698                       |
| <i>Pasturella multocida</i> ATCC 12947  | <i>Proteus vulgaris</i> ATCC 13315                        |
| <i>Proteus vulgaris</i> ATCC 9920   | <i>Pseudomonas aeruginosa</i> ATCC 15442                  |
| <i>Pseudomonas cepacia</i> ATCC 25416   | <i>Salmonella choleraesuis</i> ATCC 10708                 |
| <i>Salmonella choleraesuis</i> ATCC 23564                                       | <i>Salmonella choleraesuis</i> ATCC 4931                  |
| <i>Salmonella choleraesuis</i> serotype pullorum ATCC 19945                     | <i>Salmonella enteritidis</i> ATCC 4931                   |
| <i>Salmonella typhi</i> ATCC 6539   |   |
| <i>Serratia marcescens</i> ATCC 14756   | <i>Serratia marcescens</i> ATCC 9103                      |
| <i>Shigella flexneri</i> ATCC 12022   | <i>Shigella flexneri</i> ATCC 9380                        |
| <i>Shigella sonnei</i> ATCC 25931   | <i>Staphylococcus aureus</i> ATCC 6538                    |
| <i>Staphylococcus aureus</i> ATCC 14154   | <i>Staphylococcus aureus</i> ATCC 25923                   |
| Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) ATCC 33592            | <i>Staphylococcus epidermidis</i> ATCC 14990              |
| <i>Staphylococcus aureus</i> sub species aureus ATCC 33586                      | <i>Staphylococcus haemolyticus</i> ATCC 29970             |
| Antibiotic resistant <i>Staphylococcus epidermidis</i> ATCC 51625               | <i>Streptococcus agalactiae</i> ATCC 13813                |
| <i>Streptococcus pneumoniae</i> Penicillin Resistant ATCC 51945                 |   |
| <i>Streptococcus pyogenes</i> ATCC 19615  | Tetracycline Resistant <i>Escherichia coli</i> ATCC 47041 |
| Tetracycline Resistant <i>Pseudomonas aeruginosa</i> ATCC 27853                 | <i>Vibrio cholera</i> ATCC 11623                          |
| Vancomycin Resistant <i>Enterococcus faecalis</i> (VRE) ATCC 51299              | <i>Yersinia enterocolitica</i> ATCC 23715                 |
| Vancomycin Intermediate Resistant <i>Staphylococcus aureus</i> (VISA) ATCC 5836 |   |

**Viruses (\*Virucidal Activity) – (kills on hard, non-porous inanimate surfaces)**

- |   |   |
|---|---|
| Avian Infectious Bronchitis virus Beaudette IB42    | Human Coronavirus                           |
| Canine Coronavirus                                  | Feline Picornavirus ATCC VR-649             |
| <i>Chlamydia psittaci</i> ATCC VR-125               | Hepatitis B Virus                           |
| Canine Distemper virus ATCC VR-128                  | Herpes Simplex Virus Type 1 ATCC VR-773     |
| Hepatitis C Virus                                   | Human Immunodeficiency Virus type 1 (HIV 1) |
| Herpes Simplex Virus Type 2 ATCC VR-734             | Influenza A virus ATCC VR-544               |
| Infectious Bovine Rhinotracheitis virus ATCC VR-188 | Respiratory syncytial virus ATCC VR-26      |
| Pseudorabies virus ATCC VR-135                      | Vaccinia virus ATCC VR-119                  |
| Transmissible Gastroenteritis virus                 |   |

When used as directed at a 1:64 dilution (2 ounces per gallon of water) (or equivalent use dilution), this product is highly effective against the following fungi:

**Fungi (Fungicidal Activity) – (kills on hard, non-porous inanimate surfaces)**

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

**Hepatitis Virus**

At 2 ounces of this product per gallon of water (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% serum this product was proven to be effective against Hepatitis B and Hepatitis C virus with a contact time of 10 minutes.

EPA Reg. No. 10324-154

Maquat® 256 NHQ

12/13/04