

10324-141

6-7-2005

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

JUN 7 2005

SUBJECT: Maquat 256-NHQ
EPA Registration Number: 10324-141
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
- submission of acute toxicity studies

Acceptable Data

The product specific toxicity and efficacy data is acceptable as follows:

| Data Requirement | Means of Support | Status/ Tox. Category |
|--|---------------------------------|---|
| Acute Oral Toxicity | Submitted study, MRID 464261-03 | Acceptable/ III |
| Acute Dermal Tox. | Submitted study, MRID 464261-04 | Acceptable/ III |
| Acute Inhalation Tox. | Cite-all | III |
| Eye Irritation | Submitted study, MRID 464261-05 | Acceptable/ I |
| Skin Irritation | Submitted study, MRID 464261-06 | Acceptable/ I |
| Skin Sensitization | Submitted study, MRID 464261-07 | Non-Sensitizer |
| Fungicidal: <i>Candida albicans</i> | Submitted study, MRID 464261-01 | Acceptable @ 1:256, 5% soil, 400ppm hard water in 10 minutes |
| CONCURRENCES: | | |
| Fungicidal: <i>Trichophyton mentagrophytes</i> | Submitted study, MRID 464261-01 | Acceptable @ 1:256, 5% soil, 400ppm hard water in 10 minutes |
| SYMBOL | | |
| SURNAME | | |
| DATE | 6/7/05 | |

2/9

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.

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: "10324-141" directly below the product name on the 2 ounce package label.

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, DER D312485 and D312478
7510C:T.Lantz:6/6/05:10324-141a

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).

MAQUAT® 256-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 CaCO₃) in the presence of 5% serum contamination.

See data sheet (enclosed in each case) for (a complete list of pathogenic organisms) (additional features, claims, directions for use) (claimed for this product) (eliminated by this product).

ACTIVE INGREDIENTS:

Didecyl Dimethyl Ammonium Chloride 10.14%

n-Alkyl (C₁₄ 50%, C₁₂ 40%, C₁₆ 10%)

dimethyl benzyl ammonium chloride 6.76%

INERT INGREDIENTS: 83.10%

TOTAL 100.00%

**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 SPECIAL

721 W. Algonquin Road

Arlington Heights, IL 60015

847-290-1621

Toll Free:

1-800-362-1855

E.P.A. Reg. No. 100-100000

E.P.A. Est. No. 100-100000

(Product of USA) Manufactured by the pesticide,

registered under EPA Reg.

NET CONTENTS

Cross-contamination is of major housekeeping concern, normally 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 preclean and disinfect hospital items: wheelchairs, [hospital] [patient] bed rails and linings, wash basins, bed pans, medical equipment surfaces) any washable (food and non-food contact) surface (where disinfection is required). A potable water rinse is required when disinfecting food contact surfaces. Do not use on glasses, dishes and utensils.

This product is a Hospital Disinfectant at ½ ounce per gallon (4 milliliters per liter), (1:256 dilution), modified in the presence of 400 ppm hard water with a 10 minute contact time.

(Or)

When used as directed at a 1:256 dilution (1/2 ounce per gallon of water), (4mL/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 10 minutes contact time, this product kills the following on hard non-porous inanimate surfaces:

Bacteria

Acinetobacter baumannii ATCC 19003
Acinetobacter lwoffii 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 pullorum 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 ATCC 33586

Acinetobacter lwoffii 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 4698
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 hemolyticus 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 cholerae 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 1:256 dilution (½ ounce per gallon of water) (or equivalent use dilution) and a 10 minute contact time, this product is highly effective against the following:

Aspergillus niger (ATCC 16404)
Candida albicans ATCC#10231

Trichophyton mentagrophytes ATCC#9533

Hepatitis Virus

At ½ ounce of this product per gallon of water (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO₃) and 5% serum this product was proven to be effective against Hepatitis B 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 preclean 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 ½ ounce per gallon (4 milliliters per liter) of water (1:256) to disinfect hard non-porous surfaces OR mix a 2 ounce packet with 4 gallons of water. Treated surfaces must remain wet for 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.

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

(Or)

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

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications use a coarse spray device. Spray 6-8 inches in 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 on hard, nonporous surfaces, apply use solution to thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears. Use as directed at a 1:64 dilution (2 ounces per gallon of water) (or equivalent use dilution). Allow surface to remain wet for ten (10) minutes.

To Kill Fungi: Pre-clean heavily soiled areas. Apply use solution to hard, non-porous environmental surfaces. Allow surface to remain wet for ten (10) minutes. Wipe surfaces (and let air dry). Use as directed at a 1:256 dilution (½ ounce per gallon of water) (or equivalent use dilution).

(Or use alternate Fungicidal directions)

FUNGICIDAL DIRECTIONS: For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. Use as directed at a 1:256 dilution (½ ounce per gallon of water) (or equivalent use dilution). Allow surface to remain wet for ten (10) minutes.

CLEANING: For all general cleaning, use ½ ounce of this product per gallon of water (1:256 solution). Apply this product using a cloth, mop or pressure sprayer so as to thoroughly wet surface to be cleaned.

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 2 ounces per gallon (64 milliliters per liter) of water (1:64) to cleaning 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 ½ ounce of this product to one gallon of water. Gently mix for uniform solution. Apply solution to hard nonporous 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), 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 at objects before application of this product.

Contact Time: Leave surface wet for 10 minutes with ½ ounce per gallon (4 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 3/8 ounce to the toilet bowl (3/4 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 3/8 ounce into toilet bowl (3/4 gallon of water) for a 1:256 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 ½ ounce per gallon (4 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.

(Or use alternate Use-Dilution directions)

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

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

For Heavy Duty Cleaning: 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 10 minutes and flush. For sprayer application use a coarse spray device and swab all areas after spraying.

Glass Cleaning/Deodorizing Directions: Add ¼ to 1 ounce per gallon (2-8 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 1:256 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.

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

Directions for Food Processing Plants: For use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. 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 ½ ounce 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.
6. Ventilate buildings and other closed spaces.
7. Do not house animals or re-employ equipment until product has dried.

8. For disinfection of feed racks, troughs, automatic feeders, fountains and watering appliances scrub with use-solution, let stand ten (10) minutes. 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 4 GALLONS OF WATER
FOR DISINFECTION.

MAQUAT[®] 256-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 10.14%
n-Alkyl (C14 50%, C12 40%, C16 10%)

dimethyl benzyl ammonium chloride 6.76%

INERT INGREDIENTS: 83.10%

TOTAL 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND
USE DIRECTIONS

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

MASON CHEMICAL COMPANY

"THE QUATERNARY SPECIALISTS"

 721 W. Algonquin Road
Arlington Heights, IL 60005

847-290-1621

Toll Free:
1-800-362-1855



MASON

CHEMICAL COMPANY

"The Quaternary Specialists"

Maquat® 256-NHQ Data Sheet

When used as directed at a 1:256 dilution (½ ounce 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 51915 | |
| <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 1:256 dilution (½ ounce 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 ½ ounce of this product per gallon of water (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO₃) 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. 10324-141

Maquat® 256 NHQ

12/13/04

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