

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

MAY 10 2004

SUBJECT: Maquat 256-1010N  
 EPA Registration Number: 10324-134  
 Application Dated: November 7, 2003  
 Receipt Date: November 12, 2003

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:

- add public health pests
- submission of acute toxicity studies

### Efficacy Data

#### Acceptable Studies

Data Requirement	Means of Support	Status
Human Coronavirus	Submitted study, MRID 46121002	Acceptable @ 1:256 in 250 ppm hard water and 5% soil for 10 minutes
Canine Coronavirus	Submitted study, MRID 46121001	Acceptable @ 1:256 in 250 ppm hard water and 5% soil for 10 minutes

**No claims may be made for these organisms as the causative agent of Severe Acute Respiratory Syndrome (SARS).**

#### CONCURRENCES

SYMBOL							
SURNAME							
DATE							

### Toxicity Data

#### Acceptable Studies

Data Requirement	Means of Support	Status
Acute Oral Toxicity	Submitted study, MRID 46121006	Acceptable, Tox III
Acute Dermal Toxicity	Submitted study, MRID 46121003	Acceptable, Tox III
Primary Eye Irritation	Submitted study, MRID 46121004	Acceptable, Tox I
Primary Skin Irritation	Submitted study, MRID 46121005	Acceptable, Tox I

### Conditions

Revise the label as follows:

A. Make the following revisions to page two:

1. Upon reexamining your label it has become apparent that the following sections in the right column of this page belong within the directions for use section of the label. Move the sections which begin as following into the directions for use section:

- “This product is a Hospital Disinfectant at ...”
- “This product is Bactericidal according to the AOAC...”
- The listing beginning: “Bacteria”
- The listing beginning: “Viruses”
- The listing beginning: “Fungi and Mold”
- The section beginning: “Hepatitis Virus”

2. Revise the section beginning “Bacteria” by correcting the 5 instances where you have referred to “Antibiotic Resistance” to read “Antibiotic **Resistant**”

B. Make the following revisions to page three:

1. As requested in the Registration Notice for this product, add the following heading to the beginning of the left column on this page: “**Disinfection/Virucidal/Fungicidal**”.

2. Revise the first section at the top of the left column by correcting to read “...remain wet *for* 10 minutes”

3. Revise the second section at the top of the left column by correcting to read “For heavy-duty use add 2 ounces per gallon (16 milliliters per liter)...”

4. Revise the second to last section at the bottom of the left column by correcting to read "From Concentrate: Add ½ ounce (*4 milliliters per liter*) to the toilet..."

5. Revise the section headed: "Applications and Use Dilution Poultry (and Swine) Premise" directions by correcting to read: "...racks and other feeding *and* watering appliances."

C. Make the following revision to page four:

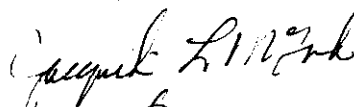
Since you have not provided data to support food contact sanitization, delete the references to the treatment of utensils in dressing plants.

**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.

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:5/10/04:10324-134a

**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 absorbed through skin or swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles, safety glasses or face shield and protective clothing when handling. Wash thoroughly with soap and water after handling. Remove contaminated 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**

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).

**MAQUAT<sup>®</sup> 256-1010N**

Disinfectant – Cleaner – Mildewstat – Fungicide – Virucide\* – Deodorizer for Hospitals, Nursing Home, Institutional and Industrial Use.

Effective in hard water up to 250 ppm hardness (Calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

**ACTIVE INGREDIENTS:**

Didecyl Dimethyl Ammonium Chloride ..... 15.36%

**INERT INGREDIENTS:**..... 84.64%

**TOTAL** ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**See left panel 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"

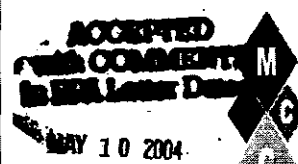
721 W. Algonquin Road

Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855



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

E.P.A. Reg. No. 10324-134

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

10324-134

NET CONTENTS

BATCH NO

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 neutral disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1), 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.

This product is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on hard non-porous 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, food processing plants, food storage areas, kitchens, restaurants and bars, airports, transportation terminals, hotels and motels. 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. 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 curtains, fixtures and toilet bowls.

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

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

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

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

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

This product is a Hospital Disinfectant at 1/2 ounce per gallon (4 milliliters per liter), (1:256 dilution), modified in the presence of 250 ppm hard water with a 10 minute contact time.

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:

#### Bacteria

*Enterobacter aerogenes* ATCC#15038  
*Enterococcus faecalis* Antibiotic Resistance ATCC#51575  
*Enterococcus faecalis* Vancomycin Resistance (VRE) ATCC#51299  
*Enterococcus faecium* Antibiotic Resistance ATCC#51559  
*Escherichia coli* O157:H7 ATCC#35150  
*Klebsiella pneumoniae* ATCC#4352  
*Klebsiella pneumoniae* Antibiotic Resistance ATCC#700603  
*Listeria monocytogenes* ATCC#19117  
*Pseudomonas aeruginosa* ATCC#15442  
*Salmonella choleraesuis* ATCC#10708  
*Salmonella schottmuelleri* ATCC#8759  
*Salmonella typhi* ATCC#6539  
*Serratia marcescens* ATCC#14756  
*Shigella dysenteriae* ATCC#13313  
*Staphylococcus aureus* ATCC#6538  
*Staphylococcus aureus*-MRSA ATCC#33592  
*Staphylococcus aureus*-GISA HIP 5836  
*Staphylococcus epidermidis* ATCC#35983  
*Staphylococcus epidermidis* Antibiotic Resistance ATCC#51625  
*Streptococcus pyogenes* "Flesh Eating Strain" Bird M#-Clinical Isolate

#### Viruses

Bovine Viral Diarrhea NADL Strain  
Canine Coronavirus  
Hepatitis B Virus (HBV)  
Hepatitis C Virus (HCV)  
Herpes simplex virus Type 1 ATCC#VR-733  
Herpes simplex virus Type 2 ATCC#VR-734  
HIV Type 1 HTLV-III<sub>b</sub>  
Human Coronavirus  
Influenza A Beijing virus H<sub>1</sub>N<sub>1</sub> Strain  
Influenza A Hong Kong virus ATCC#VR-544  
Influenza B virus ATCC#VR-823  
Vaccinia virus ATCC#VR-119

#### Fungi and Mold

*Aspergillus niger* ATCC#16404 (no soil used in testing)  
*Candida albicans* ATCC#10231  
*Trichophyton mentagrophytes* ATCC#9533

#### Hepatitis Virus

At 1/2 ounce of this product per gallon of water (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO<sub>3</sub>) and 5% serum this product was proven to be effective against 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 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 medical devices or medical equipment.)

Not for use on medical devices or medical equipment surfaces.

**ACCEPTED  
with COMMENTS  
in EPA Letter Docket**

**MAY 10 2001  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.**

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For water hardness up to 250 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.

For heavy-duty use add 2 ounces per gallon (64 milliliters per liter) of water (1:64), to disinfectant hard non-porous surfaces.

Apply at ½ ounce per gallon of water 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 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 which come in contact with food such as counter tops, tables and stovetops with potable water before reuse. This product disinfect or clean eating utensils, glassware and dishes.

**Mold and Mildew Control Directions:** To control the growth of mold and mildew and their odors on hard, non-porous surfaces, apply at ½ ounce per gallon of water to thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears.

**\*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 and Hepatitis C Virus.

**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 containing HIV, HBV and/or HCV must be thoroughly cleaned from surfaces and 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.

#### NON-ACID TOILET BOWL DISINFECTANT/CLEANER DIRECTIONS

Preclean to remove heavy soil.

**From Concentrate:** Add ½ ounce (15 milliliters) 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 ½ ounce per gallon (4 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 sprayer application, use a coarse spray device.

**For Heavy Duty Cleaning:** 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 sprayer application, use a coarse spray device.

**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 the spray.

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

#### POULTRY (and SWINE) PREMISE SANITATION

**Site Preparation:** The first step in any on-going sanitation program is the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, disinfection can be accomplished in one easy step.

#### APPLICATIONS AND USE DILUTION POULTRY (and SWINE) PREMISE

Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities 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 ½ ounce of this product per gallon of water. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment that may contact food or water with soap or detergent, and rinse with potable water before reuse. 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.

**HATCHERIES:** Use ½ ounce of this product per gallon of water to treat the following hard non-porous surfaces: hatcher, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and this product. For sprayer applications, use a coarse spray device. Use ½ ounce per gallon to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

**SHOE BATHS:** Shoe baths containing one inch of freshly made solution (½ ounce per gallon of water) should be placed at all entrances to buildings and hatcheries and at all

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the entrances to the production and packaging rooms. Change the 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, ½ ounce 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.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**MAY 10 2004**

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

10324-134

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

MIX EACH PACKET WITH 4 GALLONS OF WATER FOR  
DISINFECTION

# MAQUAT<sup>®</sup> 256-1010N

E.P.A. Reg. No. 10324-134 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 2 FLUID OZ.

**ACTIVE INGREDIENTS:**

Didecyl Dimethyl Ammonium Chloride..... 15.36%

**INERT INGREDIENTS:**..... 84.64%

**TOTAL** ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND  
USE DIRECTIONS**

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

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

721 W. Algonquin Road  
Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855



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