

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

10324-113

5/16/2001

4/10



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

EPA Reg. Number:

10324-113

Date of Issuance:

MAY 16 2001

NOTICE OF PESTICIDE:  
  x   Registration  
       Reregistration

(under FIFRA, as amended)

Term of Issuance:

CONDITIONAL

Name of Pesticide Product:

Maquat 64 MN

Name and Address of Registrant (include ZIP Code):

Mason Chemical Company  
721 Algonquin Road  
Arlington Heights, IL 60005

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

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

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

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

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

2. Add the phrase EPA Registration Number "EPA Reg. No. 10324-113".

Signature of Approving Official:

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

Date:

MAY 16 2001

EPA Form 9570-6

CONCURRENCES

SYMBOL	5705						
SURNAME	750C						
DATE	5/16/01						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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page 2  
EPA Reg. No. 10324-113

3. The product chemistry data submitted to satisfy registration requirements is acceptable, with the understanding that the final results of the one-year storage stability study and corrosion characteristics study will be submitted when completed. It is our understanding that the 2 fluid ounce containers are not water soluble. Notify the Agency if this is not correct.

4. On page three make the following revision in the left column: add the following statement to the directions for "Preparation of Use Solution": "Mix 2 ounce packet with 1 gallon of water."

5. On page five, revise the section "Commercial Floral Use Directions" as follows:

A. Add the statement "Allow to air dry." immediately following the statement "Treated surfaces must remain wet for 10 minutes."

B. Revise to state "Prepare a fresh solution at least daily or sooner if use solution becomes visible dirty."

6. On page five, revise the directions for "Disinfection of Whirlpool Units" as follows:

A. Change the heading of this section to read "Disinfection of hard non-porous surfaces in Whirlpool Units"

B. Revise such that the statement "Wash down the unit sides...with a clean swab, brush or sponge." is immediately followed by the statement "Treated surfaces must remain wet for 10 minutes." This statement does not need to be repeated at the end of this section.

7. On page six revise the title of the first section in the left panel to read: "Water and Smoke Damage Restoration..." Also revise the directions for "Truck Mounted Extraction Machines" to read: "Mix 24 ounces of the product per gallon of water and meter at 4 gallons per hour."

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

9. On page seven make the following revisions:

A. Revise "Mix each section with 1 gallon of water" to read "Mix each packet with 1 gallon of water".

B. Revise each panel ~~CONCISE~~ label to include the statement

SYMBOL	Mix each packet with 1 gallon of water.						
SURNAME							
DATE							

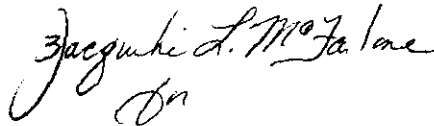
3/10

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

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

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

Sincerely,



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

Enclosure (stamped label)

7510C:T.Lantz:5/15/01:10324- 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. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

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

**ENVIRONMENTAL HAZARD**

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

(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 64 MN**

Disinfectant, Cleaner, Mildewstat, Sanitizer (nonfood contact surfaces) Virucide\*, Deodorizer for Hospitals, Institutional, Industrial and School Use and for Harvesting & Handling Equipment. Effective in hard water up to 400 ppm hardness (Calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

**ACTIVE INGREDIENTS:**

Octyl Decyl Dimethyl Ammonium Chloride .....	1.627%
Didecyl Dimethyl Ammonium Chloride .....	0.814%
Diocetyl Dimethyl Ammonium Chloride .....	0.814%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	2.170%

**INERT INGREDIENTS:** ..... 94.575%

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

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**Statement of Practical 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.

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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate 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-

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

BATCH NC

ACCEPTED  
with COMMENTS  
in EPA Label  
MAY 18 1988

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.  
10324-113

4/10

MAQUAT 64 MN is a phosphate free, pH neutral formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

Maquat 64 MN for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, operating rooms, isolation wards, and medical research facilities.
- Day care centers and nurseries.
- Restaurants and bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and whole sale establishments, dressing rooms and laundries.
- Crime scenes and funeral homes.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Kitchens, bathrooms and other household areas.
- Institutions, schools and colleges, churches, classrooms, athletic facilities and locker rooms.
- Camp grounds, play grounds, and recreational facilities.
- Food processing plants, dairy farms, hog farms, poultry and turkey farms and egg processing plants.
- Veterinary clinics, animal life science laboratories, kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, and other animal care facilities.
- Household and automotive garages, boats, ships, campers, trailers, mobile homes, cars buses, trains, taxis and airplanes.

MAQUAT 64 MN is a one step neutral disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1) and inhibits the growth of mold and mildew and their odors when used as directed.

MAQUAT 64 MN when used as directed, is formulated to disinfect hard non-porous inanimate environmental surfaces such as:

- Non Food Contact Glass, metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass, granite, marble, plastic, chrome and vinyl.
- Tables, chairs, desks, bed frames, walls, cabinets, doorknobs and garbage cans.
- Picnic tables and outdoor furniture.
- Telephones.
- Non-food contact counter tops, sinks, refrigerators exteriors, coolers, freezer exteriors, stovetops, appliances, non-food contact equipment, shelves, racks and carts.
- Highchairs.
- Shower stalls, shower doors and curtains, tubs and glazed tiles, toilets, urinals, porcelain tile and restroom fixtures.
- Kennels and cages.
- Windows and mirrors.
- For larger areas such as operating rooms and patent care facilities, MAQUAT 64 MN is designed to provide both general cleaning and disinfection.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 16 2001

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

MAQUAT 64 MN is a neutral pH disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step.

When used as directed, MAQUAT 64 MN will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage area, and other places where bacterial growth can cause mal odors.

MAQUAT 64 MN is formulated to a neutral pH, yet provides effective cleaning strength that will not dull high gloss floor finishes with repeated use.

MAQUAT 64 MN cleans, shines, deodorizes and disinfects all hard non-porous surfaces listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

MAQUAT 64 MN is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

MAQUAT 64 MN is for use in kitchens, bathrooms and other house hold areas.

MAQUAT 64 MN is an economical concentrate that can be used with a mop and bucket, trigger sprayers or sponge.

Use MAQUAT 64 MN to clean, sanitize and disinfect non-porous personal protective safety equipment, protective headgear, hard hats, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Caution: Cleaning at the recommended 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.)

MAQUAT 64 MN is a neutral pH multi surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non food contact glass surfaces.

MAQUAT 64 MN is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses.

When used as directed, MAQUAT 64MN will disinfect hard, non-porous surfaces such as flower buckets, floors and walls of coolers, design and packing benches and counter tops.

MAQUAT 64 MN may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop.

Use MAQUAT 64 MN to clean, disinfect and deodorize flower buckets, walls floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors may develop.

MAQUAT 64 MN may be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, green house packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause:

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

MAQUAT 64 MN is an effective one step sanitizer-cleaner for use on non-food contact surfaces.

MAQUAT 64 MN 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

MAQUAT 64 MN is recommended for Swine Premise Sanitation:

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

#### DIRECTIONS FOR USE

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

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

#### PREPARATION OF USE SOLUTION:

For water hardness up to 400 ppm add 2 ounces per gallon (16 milliliters per liter) of water (1:64) to disinfect hard non-porous surfaces.

MAQUAT 64 MN is a Hospital Use Disinfectant at 2 ounces per gallon (16 milliliters per liter), (1:64 dilution), modified in the presence of 400 ppm hard water.

MAQUAT 64 MN is Bactericidal according to the AOAC Use Dilution Test method, Virucidal\* according to the virucidal qualification on hard inanimate surfaces, modified in the presence of 5% organic serum against:

*Brevibacterium ammoniagenes*  
*Burkholderia cepacia*  
*Campylobacter jejuni*  
*Chlamydia psittaci*  
*Enterobacter aerogenes*  
*Enterobacter cloacae*  
*Enterococcus faecalis*  
*Enterococcus faecalis* Multiple Drug Resistant  
*Enterococcus faecalis* (Gentamycin Resistant)  
*Enterococcus faecalis* (Streptomycin Sensitive)  
*Enterococcus faecalis* (Vancomycin Resistant) (VRE)  
*Enterococcus faecalis* (Ciprofloxacin Sensitive)  
*Enterococcus faecalis* (Penicillin G Sensitive)  
*Enterococcus faecalis* (Tetracycline Sensitive)  
*Enterococcus faecium* (Vancomycin Resistant) (VRE)  
*Escherichia coli*  
*Escherichia coli* Antibiotic Resistant  
*Escherichia coli* (Ampicillin Resistant)  
*Escherichia coli* (Cephalothin Resistant)  
*Escherichia coli* (Ciprofloxacin Resistant)  
*Escherichia coli* (Gentamicin Resistant)  
*Escherichia coli* (Mezlocillin Resistant)  
*Escherichia coli* (Ticarcillin Resistant)  
*Escherichia coli* (Tobramycin Resistant)  
*Escherichia coli* (Trimeth-Sulfa Resistant)  
*Escherichia coli* (Oxacillin Resistant)  
*Escherichia coli* (Cefotaxime Sensitive)  
*Escherichia coli* (Cefotetan Sensitive)  
*Escherichia coli* (Ceftiozime Sensitive)  
*Escherichia coli* 0157:H7  
*Klebsiella pneumoniae*  
*Klebsiella pneumoniae* Antibiotic Resistant  
*Klebsiella pneumoniae* (Ampicillin Resistant)  
*Klebsiella pneumoniae* (Cefotaxime-Intermediate Resistant)  
*Klebsiella pneumoniae* (Ceftiozime-Intermediate Resistant)  
*Klebsiella pneumoniae* (Cephalothin Resistant)  
*Klebsiella pneumoniae* (Ciprofloxacin Resistant)

*Klebsiella pneumoniae* (Gentamicin Resistant)  
*Klebsiella pneumoniae* (Mezlocillin Resistant)  
*Klebsiella pneumoniae* (Ticarcillin Resistant)  
*Klebsiella pneumoniae* (Tobramycin Resistant)  
*Klebsiella pneumoniae* (Oxacillin Resistant)  
*Klebsiella pneumoniae* (Cefotetan Sensitive)  
*Klebsiella pneumoniae* (Trimeth-sulfa Sensitive)  
*Listeria monocytogenes*  
*Proteus vulgaris*  
*Pseudomonas aeruginosa*  
*Salmonella choleraesuis*  
*Salmonella schottmuelleri*  
*Salmonella typhi*  
*Salmonella typhimurium*  
*Serratia marcescens*  
*Shigella dysenteriae*  
*Shigella flexneri*  
*Shigella sonnei*  
*Staphylococcus aureus*  
*Staphylococcus aureus* Multiple Drug Resistant  
*Staphylococcus aureus* (Ampicillin Resistant)  
*Staphylococcus aureus* (Cefotaxime Resistant)  
*Staphylococcus aureus* (Cephalothin Resistant)  
*Staphylococcus aureus* (Ciprofloxacin Sensitive)  
*Staphylococcus aureus* (Clindamycin Resistant)  
*Staphylococcus aureus* (Erythromycin Resistant)  
*Staphylococcus aureus* (Methicillin Resistant) (MRSA)  
*Staphylococcus aureus* (Oxacillin Resistant)  
*Staphylococcus aureus* (Penicillin G Resistant)  
*Staphylococcus aureus* (Tetracycline-Intermediate Resistant)  
*Staphylococcus aureus* (Trimeth/Sulfa Sensitive)  
*Staphylococcus aureus* (Vancomycin Sensitive)  
*Staphylococcus epidermidis*  
*Streptococcus pyogenes*

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
MAY 16 2001  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

10324-112

Canine Distemper  
 Herpesvirus Type 1  
 Herpesvirus Type 2  
 HIV-1 (AIDS virus)  
 Vaccinia Virus

Influenza A/PR Virus  
 Infectious Bovine Rhinotracheitis  
 Pseudorabies Virus

*Aspergillus niger*

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

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

#### Disinfection/Virucidal directions:

Add 2 ounces per gallon (16 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution daily or when use dilution becomes diluted or soiled.

#### Mold and Mildew Control Directions:

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

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

Add 2 ounces per gallon (16 milliliters per liter) of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds. Allow to air dry

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

#### Citrus Canker Control

For prevention of Citrus Canker Disease through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker) at 2000 ppm active quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution ratio of 1:27 (2000 ppm active quat). Treatment can be applied to outer clothing, shoes, trucks, attached trailers, field harvesting equipment; including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using maximum rate 2000 ppm quat. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing should be either thoroughly rinsed or laundered before reuse. Footwear should be rinsed before reuse.

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

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

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

**CLEANING PROCEDURE:** Blood and other body fluids containing HIV-1 must be thoroughly cleaned from surfaces and objects before application of MAQUAT 64 MN.

**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 local regulations for infectious waste disposal.

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

Remove gross filth prior to disinfection.

**From concentrate:**

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

**From use solution:**

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

**For heavy duty use:**

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

**Cleaning/Deodorizing Directions:**

Add 1 - 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 breath spray mist.

**POULTRY (AND SWINE) PREMISE SANITATION**

**SITE PREPARATION**

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

**CLEANING AND DISINFECTION**

For all general cleaning and disinfection use 2 ounces of MAQUAT 64 MN per gallon of water. Apply MAQUAT 64 MN 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.

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

Remove all animals and feeds from premises, trucks, cars, and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
MAY 16 2001  
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occupied or reversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of MAQUAT 64 MN 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 treated feed racks, troughs, automatic feeders, fountains and waterers 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 2 ounces of MAQUAT 64 MN per gallon of water to treat the following hard non-porous surfaces: hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and MAQUAT 64 MN. Use 2 ounces per gallon to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

**SHOE BATH SANTIZINER:** Shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a 2 ounces of MAQUAT 64 MN per gallon (16 milliliters per liter) of water solution for 60 seconds prior to entering area. Change the disinfectant solution in the bath daily or sooner if solution appears dirty.

**DRESSING PLANT USE:** Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution, 2 ounces of MAQUAT 64 MN 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.

**SANITIZING HATCHERY ROOMS USING FOGGING DEVICES**

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Close room off so fog is confined to room to be treated. Mix four parts MAQUAT 64 MN to five parts water (2 gallons MAQUAT 64 MN to 2.5 gallons water). Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

**SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES**

Mix 24 ounces of MAQUAT 64 MN to 122 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breath this fog and do not enter until the fog has settled (30-60 minutes after fogging is completed). It is acceptable to fog setters and hatchers with a 2 ounce per gallon solution of MAQUAT 64 MN on

an hourly or every other hour basis. If this is done, fog (10-90 seconds) once per hour or once every two hours. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

#### **FOOD PROCESSING PLANTS USING FOGGING DEVICES**

Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cu. Ft of room area with a solution containing 2.8 ounces of product to 1 gallon (1200 ppm). Vacate the area of all personnel for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.

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

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

**VETERINARY PRACTICE/ANIMAL CARE ANIMAL LABORATORY/ZOOS/PET SHOP/KENNELS DISINFECTION DIRECTIONS:** For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors. Walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solutions of 2 ounces of MAQUAT 64 MN per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried.

#### **FARM PREMISE USE:**

Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or transversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use solution of 2 ounces of MAQUAT 64 MN per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, managers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

#### **ULTRASONIC BATH DISINFECTANT DIRECTIONS:**

Use MAQUAT 64 MN to disinfectant hard non-porous noncritical objects compatible with Ultrasonic cleaning units.

Pour fresh solution at 2 ounces of MAQUAT 64 MN per gallon of water (1:64) directly into bath chamber. Preclean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufactures directions.

Remove objects and wash with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use.

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

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

For heavily soiled areas, a preliminary cleaning is required.

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

Treated surfaces must remain wet for 10 minutes.

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

**DISINFECTION OF WHIRLPOOL UNITS:** After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve.

Add 2 ounces of MAQUAT 64 MN for each gallon of fresh water added. Start the pump to circulate the solution. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge.

After the unit has been thoroughly cleaned, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water.

Repeat for heavy soiled units

Treated surfaces must remain wet for 10 minutes.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 16 2001

Under the Federal Insecticide,  
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10324-113



**WATER DAMAGE RESTORATION AGAINST ODOR-CAUSING BACTERIA AND FUNGI FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE**

This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, subfloors, drywall, trim and frame lumber, tackless strip and paneling. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

**Sewer Backup & River Flooding:** During mitigation procedures, dilute 2-4 ounces of the product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a sprayer using a course spray tip, before and after cleaning and extraction.

**Carpets, Carpet Cushions and Other Porous Materials such as Subfloors, Drywall, Trim and Frame Lumber, Tackless Strip and Paneling:** For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2-4 ounces of the product per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a course spray tip, to fully saturate affected materials. Roll, brush or agitate into the materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

**Special Instructions for Cleaning Carpet Against Odor Causing Bacteria:**

The product may be used in industrial and institutional areas such as homes, motels, hotels, chains, nursing homes, schools and hospitals. For use on wet-cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness. For portable extraction units: Mix 2 ounce of the product per gallon of water. For truck mounted extraction machines: Mix 48 ounces of the product per gallon of water and meter at 4 gallons per hour. For rotary floor machines: Mix 4 ounces of the product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon. Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using the product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over-wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

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

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

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

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

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

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

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TWO OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL

# MAQUAT 64 MN

EPA REG. NO. 10324-  
EPA EST. NO. 10324-IL-1

NET CONTENTS: TWO FLUID OZ.

### ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride... 1.627%  
Didecyl Dimethyl Ammonium Chloride..... 0.814%  
Dioctyl Dimethyl Ammonium Chloride..... 0.814%  
Alkyl (C<sub>14</sub>, 50%; C<sub>12</sub>, 40%; C<sub>16</sub>, 10%)  
dimethyl benzyl ammonium chloride .... 2.170%

**INERT INGREDIENTS:**..... 94.575%  
**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  
container 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

MIX EACH SECTION WITH 1 GALLON OF WATER

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10/10