

**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 the skin. Harmful if swallowed. Harmful if inhaled. Avoid breathing spray mist. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

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

ENVIRONMENTAL HAZARD

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

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, anionic soaps and detergents

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

STORAGE AND DISPOSAL

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

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

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

CONTAINER DISPOSAL (Larger than 1 gal.) – Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, 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. Recycle.

ACCEPTED
MAR 16 2004
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-80

MAQUAT® 5.5-M

Disinfectant, Cleaner, Mildewstat, Fungicide, Sanitizer (nonfood contact surfaces) Virucide*, Deodorizer for Hospitals Nursing Home, Whirlpool, Home, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey, Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use and for Harvesting & Handling Equipment. Effective in hard water up to 400 ppm hardness (Calculated as CaCO₃) in the presence of 5% serum contamination.

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

ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride.....	1.650%
Didecyl Dimethyl Ammonium Chloride.....	0.825%
Diocetyl Dimethyl Ammonium Chloride.....	0.825%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride.....	2.200%
INERT INGREDIENTS:	94.500%
TOTAL	100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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"
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Toll Free:
1-800-362-1855

E.P.A. Reg. No. 10324-80
E.P.A. Est. No. 16324-IL-1

NET CONTENTS

BATCH NO

10324-80

3-16-2004

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This product contains no phosphorous.

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

This product maximizes labor results by effectively controlling odors.

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

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

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

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

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

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

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

This product is a versatile disinfectant/sanitizer for Veterinarian, Animal Care and Agricultural applications.

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

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

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

This product is recommended for use as a disinfectant on hard, nonporous surfaces (at 850 ppm active). A potable water rinse is required after application on food contact surfaces.

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

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

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

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

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

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

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

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

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

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

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

This product is effective at controlling mold and mildew on shower curtains.

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

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

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

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

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

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

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

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses.

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

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

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

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

Use this product 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.

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

Floor cleaner.

One step cleaner.

Cleans everyday kitchen messes.

Cleans non food contact kitchen surfaces and food preparation areas.

Cleans and shines.

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

Safe for most surfaces. For a cleaner, fresher household. Removes stains. Removes dirt. Non-staining. Clear formula.

Eliminates odors caused by bacteria (and) (mildew) (and) (non-fresh foods). Kills odor causing bacteria in the kitchen (bathroom).

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grim.

Escherichia coli (E. coli), Salmonella choleraesuis (Salmonella), and Staphylococcus aureus (Staph) are common germs found where food is prepared and stored. This product kills these germs and helps prevent the spread of food borne contamination on treated kitchen surfaces. A potable water rinse is required after application on food contact surfaces. This product is not for use on dishes, glassware or eating utensils.

Disinfects (and Sanitizes) kitchen surfaces (bathroom surfaces and floors). Sanitizes kitchen surfaces (bathroom surfaces and floors). Kills germs. Kills household bacteria. A potable water rinse is required after application on food contact surfaces.

Antibacterial. Kills Athlete's Foot fungus on bathroom surfaces.

Hospital use Disinfectant. Institutional Disinfectant (Sanitizer).

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

Effective sanitizer in the presence of 5% serum contamination.

Effective sanitizer in the presence of soils.

This product is effective against Citrus Canker and Bacterial Spot of Tomatoes through the treatment of the handling, harvesting, storage and transportation equipment.

This product is recommended for Poultry Premise Sanitation (Hatcheries)

Egg Receiving Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Area	Chick Loading Area
Setter Room	Hatchery Room	Poultry Buildings

This product is recommended for Swine Premise Sanitation:

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

Maquat[®] 5.5-M for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, isolation wards, and medical research facilities.

- Patient care rooms & facilities, recovery, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpools, footbaths, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities
- Day care centers and nurseries, sick rooms
- Acute care institutions, alternate care institutions, home healthcare institutions
- Life care retirement communities
- Restaurants, restaurants and bars, bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photo copy centers, bicycle shops, auto repair centers
- Computer manufacturing sites, toy factories
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores
- Crime scenes and funeral homes, mortuaries
- Police stations, courthouses, municipal government buildings, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Public restrooms, travel rest areas, shower rooms, shower stalls, bathrooms
- Hotel, motels, dormitories
- Kitchens, bathrooms and other household areas.
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, gyms, gymnasiums
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities
- Heath clubs, spas, tanning spas, footbaths, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses
- Recycling centers
- Camp grounds, play grounds, recreational facilities, picnic facilities, sports arenas, sports complexes
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms
- Processing facilities for Fishery, Milk, Citrus, Ice Cream and Potato Processing Plants

- Veterinary clinics, animal life science laboratories, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities.
- Household and automotive garages, boats, ships, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, airline terminals, shipping terminals, public transportation
- Commercial florist and flower shops

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

- Food preparation and storage areas.
- Countertops, stovetops, sinks, and exterior surfaces of Slurppy® machines, appliances, refrigerators, ice machines.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass, granite, marble, plastic, chrome and vinyl.
- Enameled surfaces, painted woodwork, Formica, vinyl and plastic upholstery.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large inflatable nonporous plastic and rubber structures: animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment.
- Picnic tables and outdoor furniture.
- Telephones and Telephone booths
- Highchairs
- Drinking fountains.
- Commercial Florist and flower shops
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowl surfaces, urinals, portable toilets, porcelain tile and restroom fixtures.
- Kennels kennel runs, cages floors, conductive flooring.

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants at 400 ppm water hardness.

This product meets AOAC efficacy standards for hard surface non-food contact sanitizers.

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

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

DIRECTIONS FOR USE

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

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact

mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

Disinfection/Fungicidal/Virucidal Directions:

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

Hospital Disinfection and Fungicidal Control

For water hardness up to 400 ppm add 2 ounces of this product per gallon (16 milliliters per liter) of water (1:64) (850 ppm active quat) to disinfect hard non-porous surfaces. Treated surfaces must remain wet for 10 minutes. OR mix a 2 ounce packet with 1 gallons of water.

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

<i>Campylobacter jejuni</i>	<i>Proteus vulgaris</i>
<i>Corynebacterium ammoniagenes</i>	<i>Pseudomonas aeruginosa</i>
<i>Enterobacter aerogenes</i>	<i>Pseudomonas aeruginosa</i> (Antibiotic resistant)
<i>Enterobacter cloacae</i>	<i>Salmonella choleraesuis</i>
<i>Enterococcus faecalis</i>	<i>Salmonella typhi</i>
<i>Enterococcus faecium</i> (Vancomycin resistant)	<i>Serratia marcescens</i>
<i>Escherichia coli</i>	<i>Shigella dysenteriae</i>
<i>Escherichia coli</i> (Antibiotic resistant)	<i>Shigella flexneri</i>
<i>Escherichia coli</i> 0157:H7	<i>Shigella sonnei</i>
<i>Legionella pneumophila</i>	<i>Staphylococcus aureus</i>
<i>Klebsiella pneumoniae</i>	<i>Staphylococcus aureus</i> (Methicillin resistant)
<i>Klebsiella pneumoniae</i> (Antibiotic resistant)	<i>Staphylococcus epidermidis</i> (antibiotic resistant)
<i>Listeria monocytogenes</i>	<i>Streptococcus pyogenes</i>
<i>Proteus mirabilis</i>	<i>Xanthomonas axonopodis</i> pv. <i>Citri</i>

Fungicidal against:

<i>Trichophyton mentagrophytes</i>	<i>Candida albicans</i>
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Hospital Disinfection and Fungicidal Use Dilution Chart

Ounces of Product	Amount of Water
½ ounce	1 quart
1 ounce	½ Gallon
2 ounces	1 gallon
5 ounces	2½ gallons
10 ounces	5 gallons
20 ounces	10 gallons

***Virucidal Performance:** At 1¼ ounces per gallon of water use level, (540 ppm active quat) treated surfaces must remain wet for ten minutes. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes diluted or soiled.

This product was evaluated and found to be effective in the presence of 5% blood serum against the following viruses on hard nonporous surfaces.

Avian influen	Turkey/Wisconsin	Infectious Bovine Rhinotracheitis virus (IBR)
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Canine Distemper

Herpes Simplex Type1
Herpes Simplex Type2
HIV-1 (AIDS virus)
Influenza A/Brazil Virus

Newcastle disease virus
Porcine Respiratory & Reproductive Virus (PRRSV)
Porcine Rotavirus
Pseudorabies virus
Transmissible Gastroenteritis (TGE)
Vaccinia virus

For Schools, Industry and Non-Medical Institutional Uses:

At 1¼ ounces per gallon of water, this product delivers *cleaning and germicidal effectiveness. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or more often if solution becomes diluted or soiled. It is effective against Staphylococcus aureus, Salmonella choleraesuis, Escherichia coli and Serratia marcescens. The same AOAC tests used to confirm performance for hospitals were used.

General Disinfection and Virucidal Use Dilution Chart

Ounces of Product	Amount of Water
0.3125 ounces	1 quart
0.625 ounces	½ Gallon
1¼ ounces	1 gallon
3.125 ounces	2½ gallons
6¼ ounces	5 gallons
12½ ounces	10 gallons

Hepatitis B Virus: At a 2 ounces per one gallon (or equivalent use dilution) (850 ppm active quat) in the presence of 400 ppm hard water (CaCO₃) and 100% serum this product was proven to be effective against Hepatitis B Virus with a contact time of 10 minutes.

Mold and Mildew Control Directions:

Add 1¼ ounces per gallon (10 milliliters per liter) of water to control the growth of mold and mildew (*Aspergillus niger*) 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 1 ounce per 2¼ gallons of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 5 minutes. Allow to air dry.

Staphylococcus aureus

Klebsiella pneumoniae

To Sanitize (and Deodorize): Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications use a coarse spray device. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist. Let stand for 5 minutes. Then wipe.

Citrus Canker Control and Control of Bacteria Spot of Tomatoes (Not Applicable in California)

For prevention of Citrus Canker and Bacterial Spot of Tomatoes Diseases through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. citri (Citrus Canker) and *Xanthomonas campestris* pv. vesicatoria (bacteria spot of tomatoes) at 2060 ppm active quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution ratio of 1:27 (2060 ppm active quat). Treatment can be applied to 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 2060 ppm quat. For sprayer applications use a coarse spray. 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 HBV and 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 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 Hepatitis B Virus (HBV) and human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

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

At 1¼ ounces per gallon of water in the presence of 5% blood serum and 400 ppm of hardness for a 2 minute contact time, this product was found to be effective against HIV-1 (AIDS Virus).

At 2 ounces per gallon of water in the presence of 100% serum and 400 ppm of hardness for a 10 minute contact time, this product was found to be effective against HBV.

PERSONAL PROTECTION: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.

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

DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

CONTACT TIME: Leave surface wet for 2 minutes and 10 minutes for HIV-1 and HBV, respectively. This 2 minute contact time will not control other common type of viruses and bacteria listed on this label.

Non-Acid Toilet Bowl Disinfection/Cleaner Directions:

Remove gross filth prior to disinfection.

From concentrate:

Add a 1½ ounces to the toilet bowl (0.75 gallons) 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 sprayer application use a coarse spray device.

For heavy duty cleaning:

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. For sprayer application use a coarse spray device.

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Cleaning/Deodorizing Directions:

Add 1¼ ounces per gallon of water. Apply solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow to air dry or wipe up excess liquid.

Disinfection/Virucide for Barber/Salon Tools Directions: Immerse pre-cleaned barber/salon tools (such as combs, brushes, razors, manicure/pedicure tools, clippers and scissors) in 1¼ ounces per gallon solution (or equivalent use dilution) (540 ppm active quat) of the product. Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared at least daily or more often if solution becomes cloudy or soiled.

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.

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 2 ounces 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 treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which 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 2 ounces of this product 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 this product. Use 2 ounces per gallon to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. For sprayer applications use a coarse spray device.

SHOE BATH SANITIZER: Shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in 2 ounces of this product per gallon (16 milliliters per liter) of water solution for 5 minutes prior to entering area. Change the sanitizing 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 g soils. Saturate all surfaces with the recommended use solution, 2 ounces of product per gallon of water, Scrub to loosen all soils. Allow to soak for 10 minutes 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 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 2 gallons this product to 2½ gallons water. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fog is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 24 ounces of this product to 122 ounces of water. Fog 3-8 ounces of this product in setters and hatchers immediately after transfer. Repeat daily in setters and every 24 hours in hatchers. Discontinue hatchery treatments at least 24 hours prior to pulling hatch. It is acceptable to fog setters and hatchers with 2 ounces per gallon solution of this product on an hourly or every other hour basis. If this is done, fog for 30 seconds once per hour or once every two hours. Thoroughly scrub all treated surfaces, 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 1 quart per 1000 cubic feet of room area with a solution containing 3 ounces of product to 1 gallon of water (1,200 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 MANURE REMOVAL, CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**VETERINARY PRACTICE/ANIMAL CARE ANIMAL LABORATORY/ZOO/SHEEP/GOAT/PIG/POULTRY SHOP/KENNELS/TACK SHOPS DISINFECTION DIRECTIONS:**

For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal contact, 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 solution of 2 ounces of this product 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 this product 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.

ULTRASONIC BATH DISINFECTANT DIRECTIONS:

Use this product to disinfectant hard non-porous noncritical objects compatible with Ultrasonic cleaning units.

Pour fresh solution of 2 ounces of this product 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.

DISINFECTION OF HARD NON-POROUS SURFACES IN WHIRLPOOL UNITS: After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of fresh water added. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

For Disinfecting Hard Nonporous Fiberglass Bath and Therapy Equipment: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add 10 ounces of this product for each 5 gallons of water (2 ounces per one gallon) (850 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly cleaned, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse.

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. Allow to air dry.

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

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

General Deodorization: To deodorize, add a 1¼ ounces of this product to 1 gallon of water (or equivalent use dilution) (540 ppm active quat). Excess material should be wiped up or allowed to air dry.

For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment: It is especially important to preclean for the product to perform properly. Use 1¼ ounces per gallon of this product or other suitable detergent system for pre cleaning step. Then, apply a wetting concentration of 6 ounces of this product per gallon of water (or equivalent use dilution) (2,500 ppm quat active).

For Odors Caused by Dogs, Cats and Other Domestic Animals: Use on rugs, floors, walls, tile, cages, crates, mats, liter boxes, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "General Deodorization".

Fungicidal Activity

At 2 ounces per gallon use-level, (or equivalent use dilution) (850 ppm active quat) this product is effective in locker rooms, dressing rooms, shower and bath areas and exercise facilities against *Trichophyton mentagrophytes* (athlete's foot fungus) *Candida albicans* on inanimate surfaces in the presence of 5% blood serum and 400 ppm water hardness as CaCO₃.

SALON/BARBER INSTRUMENTS AND TOOLS SANITIZER DIRECTIONS

Preclean soiled instruments and tools. Completely immerse water safe nonporous instruments and tools in a solution of 1 ounce per 2¾ gallons (or equivalent use dilution) (150 ppm active) of water for at least 5 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

NOTE: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 5 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

Humidifier Sanitizer Directions: Thoroughly clean water tank and filters. Add 2 ounces of this product per gallon of refill water. Not for use in heat or atomizing type humidifiers.

WATER/SMOKE DAMAGE RESTORATION (Not Applicable in California)

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

Sewer backup & river flooding: During mitigation procedures, dilute 2 to 4 ounces of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

Carpets, carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling: For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2 to 4 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 coarse spray tip, to fully saturate affected materials.

Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

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

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

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

For rotary floor machines: Mix 4 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

CARPET SANITIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE (Not Applicable in California)

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

Vacuum carpet thoroughly prior to application. Mix 2 ounces of product per gallon of water. Follow the Injection and/or Extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 16 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

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

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

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

SMOKE DAMAGE RESTORATION (Not Applicable in California): Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use: This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

To disinfect food-processing premises: floors, walls and storage areas, add 2 ounces of this product to 1 gallon of water (or equivalent use dilution) (850 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid.

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

To disinfect food service establishment food contact surfaces: countertops, appliances, and tables. Before using this product food products and packaging materials must be removed from area or carefully protected. Add 2 ounces of this product to 1 gallon of water (or equivalent use dilution) (850 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. For sprayer applications, use a coarse spray. This product is not for use on dishes, glassware or eating utensils.

For use on non-food contact surfaces as a general disinfectant in the brewery industry use 2 ounces of this product per 1 gallon of water (or equivalent use dilution) (850 ppm active quat). Follow the general disinfectant directions above.

MUSHROOM FARM INDUSTRY USE DIRECTIONS

Site Preparation: The first step in any on going sanitation program should be the removal of gross contamination and debris. This may be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

Disinfection: Use 2 ounces of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces should be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, pre-clean first. Prepare a fresh solution for each use.

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

DO NOT APPLY TO THE MUSHROOM CROP, COMPOST OR CASING. Rinse treated surfaces with potable water before they contact the crop, compost or casing.

Cleansing of Body Surfaces and Body Orifices of Human Remains. To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, and to remove and reduce surface contamination, apply 2 ounces of this product to 1 gallon of water (850 ppm active) to the surfaces and body openings, natural or artificial. Allow a 10 minute contact time for optimal results. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Prepare a fresh solution for application of each remains

To control the growth of mold and mildew on large inflatable nonporous plastic and rubber structures (animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment). Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1¼ ounces per 1 gallon (540 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house employ equipment until treatment has been absorbed, set or dried.

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**TWO OUNCE PACKET TO BE USED WITH MASTER
CONTAINER LABEL**

MIX EACH PACKET WITH 1 GALLON OF WATER

MAQUAT 5.5-M

E.P.A. Reg. No. 10324-80 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 2.0 FLUID OZ.

ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride 1.650%
Didecyl Dimethyl Ammonium Chloride 0.825%
Dioctyl Dimethyl Ammonium Chloride 0.825%
Alkyl (C₁₄, 50%; C₁₂, 40%; C₁₆, 10%)
dimethyl benzyl ammonium chloride 2.200%
INERT INGREDIENTS: 94.500%
TOTAL 100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

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

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

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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