

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Ms. Erin M. Tesch
Technology Sciences Group, Inc.
1150 18th Street, NW, Suite 1000
Washington, D.C. 20036

SEP 28 2007

Subject: Maquat 710-HF
EPA Registration No.: 10324-159
Amendment Date: May 11, 2007
EPA Receipt Date: May 11, 2007

Dear Ms. Tesch,

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:

- Addition of public health organisms
- Addition of directions for use and marketing claims
- Submission of data to support Drain Sanitizing Claims

Submitted Data

The cited efficacy studies are acceptable as follows. A copy of the review is included for your records.

Study	MRID Number	Status
Sanitizing Method: Not-Food Contact Surfaces, <i>Listeria Monocytogenes</i>	471393-01	Acceptable at 1:256 in 50% serum, <u>at 45-90° angle</u> in 5 minutes
Sanitizing Method: Not-Food Contact Surfaces, <i>Enterobacter aerogenes</i>	471264-01	Acceptable at 1:256 in 50% serum in 5 minutes
Sanitizing Method: Not-Food Contact Surfaces, <i>Listeria Monocytogenes</i>	471264-02	Acceptable at 1:256 in 50% serum in 5 minutes
Sanitizing Method: Not-Food Contact Surfaces, <i>Staphylococcus aureus</i>	471264-03	Acceptable at 1:256 in 50% serum in 5 minutes
Virucidal Efficacy of Disinfectant, Newcastle disease virus	471264-05	Acceptable at 1:128 in 5% serum in 10 minutes

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Virucidal Efficacy of Disinfectant, Porcine Respiratory & Reproductive Syndrome virus	471264-06	Acceptable at 1:128 in 5% serum in 10 minutes.
Virucidal Efficacy of Disinfectant, Porcine Rotavirus	471264-07	Acceptable at 1:128 in 5% serum in 10 minutes
Virucidal Efficacy of Disinfectant, Avian Influenza A virus	471264-08	Acceptable at 1:128 in 5% serum in 10 minutes
Virucidal Efficacy of Disinfectant, Avian Reovirus	471264-09	Acceptable at 1:128 in 5% serum in 10 minutes.
Virucidal Efficacy of Disinfectant, Infectious Laryngotracheitis	471264-10	Acceptable at 1:128 in 5% serum in 10 minutes
Virucidal Efficacy of Disinfectant, Avian Adenovirus	471264-11	Acceptable at 1:128 in 5% serum in 10 minutes
Virucidal Efficacy of Disinfectant, Vesticular Stomatitis	471264-12	Acceptable at 1:128 in 5% serum in 10 minutes
Virucidal Efficacy of Disinfectant, Pseudorabies	471264-13	Acceptable at 1:128 in 5% serum in 10 minutes
Virucidal Efficacy of Disinfectant, Swine Influenza A	471264-14	Acceptable at 1:128 in 5% serum in 10 minutes

Corrections to Data Matrix

The following additional MRIDs have also been used in support of this registration. This information has been added to the matrix in our files, please do the same to your file copy.

Product Chemistry, Group A 46413901

Product Chemistry, Group B 46413902

Conditions

Revise the label as follows:

1) Revise page two, the second section under "Organism Guide", page two, by deleting the following two organisms. Efficacy data must be submitted and found acceptable for this organisms to be added to your label. Such data has not been received by the Agency. Delete: Infectious Bronchitis virus, Avian and Transmissible Gastroenteritis virus. Delete these same organisms on page seven.

2) Correct the third section under "Organism Guide", page two, by revising the heading to read as follows: "**Non-Food Contact Sanitizing Performance:** This product is an effective *non-food* contact surface..." This product is a non-food contact sanitizer.

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- 3) Correct the fourth section under "Organism Guide", page two, by revising the heading to read as follows: **"Foaming Sanitizer Performance: For use in food processing and animal housing facilities.** The foam generated from this product..." This product must be clearly label to indicate that these are the only sites in which the product may be used as a foam.
- 4) On page two in the Marketing Claims section, delete the claim for whirlpools from the second bullet. Your label does not include directions for use on whirlpool surfaces.
- 5) Revise the bullet in the left column of page three which refers to picnic tables to read as follows: *"Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wooden Picnic table and outdoor furniture except cushions and wood frames. (Note: Only one statement will be used.)"* This will bring this label into agreement with other labels you have in the marketplace.
- 6) Revise the bullet in the left column of page three which refers to cross contamination to read as follows: *"This product prevents cross contamination from treated area to treated area."*
- 7) Revise the bullet in the right column of page three which refers to cross contamination to read as follows: *"Controls (Helps prevent) cross contamination from treated area to treated area when used as an entryway sanitizing system."*
- 8) Revise the bullet in the right column of page three which refers to cross contamination to read as follows: *"When used as directed, this product will prevent (prevents) cross contamination from treated area to treated area in animal areas and packaging and storage areas of food plants."*
- 9) Revise the bullet in the right column of page three which refers to prevention of the tracking of organisms to read as follows: *"Prevents tracking organisms into animal areas, and packaging and storage areas of food plants when used as a shoe bath sanitizer, as a shoe foam, or an entryway sanitizing system."*
- 10) Revise the bullet in the left column of page four which refers to a foam blanket to read as follows: *"This product will lay down a foam blanket of protection to protect against cross contamination of organisms between treated areas in food processing plants."*
- 11) Delete the reference to "automatic washing systems" in the sixth bullet in the left column of page four as your label does not include directions for this use.
- 12) Delete the reference to "germs" in the fourth bullet from the bottom of the left column of page four.
- 13) Revise the claim in the right column of page four which begins: "Disinfects (and Sanitizes) (kitchen surfaces) (bathroom surfaces) (and) (floors)..." to include the following: *"...Sanitizes non-food contact (kitchen surfaces)..."*

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14) Correct the first section under the "Food Processing" heading on page six to begin as follows: "Before use in federally inspected meat..." This section does not include directions for sanitizing.

15) Bring this label into agreement with other labels you have in the marketplace by adding the following statement immediately after the heading: "To Disinfect Food-Processing and Tobacco Premise" (page six). Add: "Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls..."

16) Delete the reference to a foam generator in the Sanitizer Directions for Non-Food Contact Surfaces on page eight as you have not indicated that the foam gun should be set at a particular rate once the undiluted product has been added.

17) Correct the Shoe Bath Sanitizing Directions and the Shoe Foam Directions on page eight by beginning each section as follows: "To prevent cross contamination from treated area to treated area in animal areas..."

18) Revise the Entryway Sanitizing Systems directions on page eight to begin as follows: "To prevent cross contamination from treated area to treated area, set the system to deliver..."

19) Revise the Foaming Sanitizer for Floor Drains (page eight) by deleting the following claim which implies heightened efficacy: "Foaming also allows deeper penetration of your product." We do not have any information to show that your product penetrates the material of which the drain and drain pipes are manufactured. Revise the second claim to read: "Foam carries active ingredients into the drain pipes." Your claim "throughout the full dimension of" implies that the entire pipe will be treated which is not the case.

20) Revise the Foaming Sanitizer for Floor Drains (page eight) by revising to state: "Apply foam to all surfaces of the drain."

21) Make the following deletion in the section headed: Floor Drain and Drainage Systems Foaming Sanitizer on page eight. Delete: "To assure efficacy in a dirty drain this product was tested and approved in the presence of 50% organic soil load." This product has been approved for use in pre-cleaned drains, not dirty drains. Make this same deletion on page nine.

22) Correct the statement on page nine, right column to read as follows: "After sanitization, ventilate buildings, coops, and other closed spaces."

33) Correct the section in the "Directions for Alternate Containers" on page nine. Revise to read:

"Packets For Disinfection: (For pre-measured tear open packets)..."

OR "For Disinfection: Pour contents of (1 oz.)..."

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General Comments

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

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

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

Sincerely,



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

Enclosures: Stamped Label, DER D340122
7510P:T.Lantz:9/27/07:10324-159a

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MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-159

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

MAQUAT® 710-HF

Net Contents:

Batch No:

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get 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. 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, 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).

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

Disinfectant, Sanitizer (Non-Food Contact Surfaces), Deodorizer (Odor Counteractant) (Odor Neutralizer), For Hospitals, Nursing Homes, 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.

Foam Drain Sanitizer for Food Processing Facilities

Foaming Entryway (Doorway) Sanitizer.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

Small Fly Ovicidal Treatment.

ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride	ACCEPTED with COMMENTS in EPA Letter Dated: SEP 28 2007	3.0%
Didecyl Dimethyl Ammonium Chloride		1.5%
Diocetyl Dimethyl Ammonium Chloride		1.5%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 10324-159	4.0%
INERT INGREDIENTS:		90.0%
TOTAL		100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

See (left)(side)(back) panel for additional precautionary and first aid 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.

(Note to Reviewer: This information has been verified per DOT regulations. It is NOT required to be on the label but is being requested by a customer.)

Transportation Information

DOT Hazard Class: 8 Corrosive

DOT Proper Shipping Name: Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PGI

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(Note to reviewer: The Table of Contents will not be on any label. This is for our customer's reference only. The page numbers will change as the label changes.)

Table of Contents

Description	Page No.
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Food Processing	8
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ORGANISM LIST

(Note: For reference use only. This is a list of all organisms covered by this label. Please see appropriate Directions for Use for proper use dilution.)

General Disinfection in Non-Medical (schools, restaurants, food services, beverage and food processing plants): Maquat® 710-HF is a Bactericidal according to the AOAC Use Dilution Test method, on hard, inanimate surfaces, modified in the presence of 5% serum against:

Pseudomonas aeruginosa
Salmonella enterica
Staphylococcus aureus

Animal Virucidal Performance: This product is an effective Virucide according to the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces test method, on hard, inanimate surfaces, modified in the presence of 5% serum against:

Avian Adenovirus
Avian Influenza A virus
Avian Reovirus
~~*Avian Rotavirus*~~
Infectious Laryngotracheitis
Newcastle disease virus
Porcine Respiratory & Reproductive Syndrome virus (PRRS)
Pseudorabies virus
Swine Influenza A virus
~~*Transmissible Gastroenteritis virus*~~
Vesicular Stomatitis virus

Contact Sanitizing Performance: This product is an effective ~~contact~~ surface sanitizer as evaluated using the Method for Efficacy of Sanitizers recommended for Inanimate non-food Contact Surfaces in the presence of 5% organic soil against the following:

Campylobacter jejuni
Escherichia coli O157:H7
Klebsiella pneumoniae
Listeria monocytogenes
Salmonella enterica
Salmonella enteritidis
Shigella dysenteriae
Staphylococcus aureus

Yersinia enterocolitica

Foaming Sanitizer Performance: The foam generated from this product is an effective non-food contact sanitizer (as evaluated using the Method for Efficacy of Sanitizers recommended for Inanimate Non-Food Contact Surfaces) in the presence of 50% organic soil (Fetal Bovine Serum) (Serum) against the following:

Enterobacter aerogenes
Listeria monocytogenes
Staphylococcus aureus

MARKETING CLAIMS

Maquat® 710-HF 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, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities, emergency vehicles, ambulance(s), police cars.
- Day care centers and nurseries, sick rooms.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Lifecare 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, photocopy centers, bicycle shops, auto repair centers.
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores.
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households).
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums.
- Heath clubs, spas, tanning spas, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors.

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- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Campgrounds, playgrounds, 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, rendering plants.
- Processing facilities for Fish, Milk, Citrus, Fruit, Vegetable, Ice Cream, Potatoes and Tobacco and beverage 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, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, airline terminals, airports, shipping terminals, public transportation.
- Basements, cellars, bedrooms, attics, living rooms, and porches.

This product may be used on washable hard, non-porous surfaces such as:

- Countertops (Counter surfaces), stovetops (stovetop surfaces), sinks (sink surfaces), and non-food contact surfaces of Slurpy® machines, and exterior surfaces of appliances, refrigerators and ice machines, and non-food contact equipment, shelves, racks and carts.
- Food preparation and storage areas.
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, sealed concrete, chrome and vinyl.
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery.
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Picnic tables and outdoor furniture.
- Telephones and telephone booths.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet seats, toilet bowls, toilet bowl surfaces, urinals, urinal surfaces, portable toilets, porcelain tile and restroom fixtures.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring.

This product contains no phosphorous.

This product prevents cross contamination from area to area.

Kills gram-negative and gram-positive.

This product is a concentrated liquid product containing an effective blend of quaternary ammonium compounds and a high foaming surfactant, all the things that are needed to make a high foaming disinfectant, sanitizer and deodorizer.

This product utilizes a unique foaming surfactant system that is synergistically formulated to give you (the user) long lasting foam for contact on all surfaces.

This product generates high foam.

This product is a complete, chemically balanced deodorizer, sanitizer and disinfectant, providing clear use solutions.

Controls (Helps prevents) cross contamination from one room to another ~~by laying down a thick layer of protection (which also deodorizes)~~

Foams without (using) additives.

Prevents cross contamination of harmful organisms from area to area.

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

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

This product is an economical concentrate that can be used with a mop and bucket, trigger sprayers, foam gun (wand), sponge or by soaking.

This product will not leave a grit or soap scum.

This product is a complete, chemically balanced, disinfectant/sanitizer that provides clear use solutions.

This product is for use as a disinfectant on hard, non-porous surfaces (at 780 ppm active). A potable water rinse is required after application on food contact surfaces.

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

This product cleans, shines, deodorizes and disinfects all hard, non-porous surfaces listed on the label.

This product is a multi-surface cleaner, deodorizer and disinfectant.

This product is an effective disinfectant/sanitizer.

This product is an effective (foaming) doorway (entryway) sanitizer.

This product was specifically formulated to provide a high foam layer of protection (for foaming doorway sanitizers).

When used as directed, this product will prevent (prevents) cross contamination into animal areas, and packaging and storage areas of food plants.

This product combines the proven efficacy of a quat with a high foaming specialty surfactant to provide you with an all-in-one system (specifically designed for doorway (entryway) foam sanitizers).

Prevents tracking ~~organisms~~ organisms into animal areas, and packaging and storage areas of food plants.

This product is a versatile Disinfectant & Sanitizer for Veterinarian, Veterinary Practice, Animal Care, Animal Laboratory, and Agricultural and Farm Premise applications.

This product is for Poultry Premise Sanitation (Hatcheries), Egg Receiving Area, Egg Holding Area, Setter Room, Tray Dumping Area, Trays, Buggies, Racks, Egg Flats, Chick Holding Room, Hatchery Room, Chick Processing Area, Chick Loading Area,

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Poultry Buildings, Ceilings, Side walls and Floors, Drinkers, and all other hard, non-porous Poultry House related equipment, and surfaces in the Hatchery environment.

This product is for Swine Premise Sanitation, Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and Areas, Nursery, Blocks, Creep Area, Chutes.

When used as directed, this product helps to prevent cross contamination when placed at all entrances to buildings, hatcheries and at all the entrances (connecting) (to) the production and packaging rooms of food processing plants.

This product will lay down a foam blanket of protection to protect against cross contamination of ~~bacteria~~ organisms (between one room to another in food processing plants).

Cross-contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces in institutions, industry, food processing and meat packing facilities.

This product may be applied through ~~immersion tanks~~, immersion tanks, foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems.

Cleans non-food contact kitchen surfaces and food preparation areas.

Salmonella enterica (Salmonella), and Staphylococcus aureus (Staph) are common bacteria found where food is prepared and stored. This product kills these bacteria and helps prevent the spread of food borne contamination on treated 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.

This product is a high foaming disinfectant and non-food contact surface sanitizer.

This product may be used on any environmental, hard, non-porous, non-food contact surfaces in the food processing area not harmed by water itself.

This product deodorizes by killing microorganisms causing odors.

Deodorizes by killing most microorganisms that cause offensive odors.

Controls odors in food processing plants.

This product maximizes (improves) labor results by effectively controlling odors.

When used as directed, this product will deodorize surfaces in restroom 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 inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. (Not for use in California.)

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

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

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

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

Eliminates odors caused by bacteria (and) (non-fresh foods).

Kills odor causing bacteria in the kitchen (bathroom).

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

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

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

Disinfects (and Sanitizes) (kitchen surfaces) (bathroom surfaces) (and) (floors). Sanitizes (kitchen surfaces) (bathroom surfaces) (and) (floors).

Kills (household) bacteria. A potable water rinse is required after application on food contact surfaces.

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

DIRECTIONS FOR USE

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

(Note for reviewer: For labels that list medical premises and metal and/or stainless steel surfaces, one of the following statements must be used:)

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 on medical devices or medical equipment.

Not for use on medical devices or medical equipment surfaces.

GENERAL USE DIRECTIONS

Apply this product with a cloth, mop, or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. For disinfection, treated surfaces must remain wet for 10 minutes. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Allow to air dry. Do not breathe spray. Rinse with potable water after use on surfaces that come in contact with food.

NOTE: With spray applications, cover or remove all food products. Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For heavily soiled areas, a preliminary cleaning is required

DISINFECTION

Maquat® 710-HF is a Bactericidal according to the AOAC Use Dilution Test method, on hard, inanimate surfaces, modified in the presence of 5% serum against:

Pseudomonas aeruginosa
Salmonella enterica

Staphylococcus aureus

Preparation of Use Solution: Add 1 ounce per gallon (OR mix a 1 ounce packet with one (1) gallon of water) (or equivalent use dilution) (781 ppm active) of water to disinfect hard, non-porous surfaces.

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

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Disinfection Dilution Chart

Ounces of Product	Amount of Water
0.25 ounces	1 quart
0.5 ounces	½ gallon
1 ounce	1 gallon
2 ounces	2 gallons
5 ounces	5 gallons
10 ounces	10 gallons

DEODORIZATION

General Deodorization: To deodorize, add 1 ounce of this product to 1 gallon of water (or equivalent use dilution) (781 ppm active quat). Excess material must be wiped up or allowed to air dry.

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

To control the growth of mold and mildew on non-porous athletic equipment (wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1 ounce per gallon (781 ppm active quat) of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried. *(Not for use in California)*

WATER and SMOKE DAMAGE RESTORATION *(Not for use in California.)*

Water Damage Restoration: 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, frame lumber, tackless strip and paneling. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. *se proper ventilation.*

Smoke Damage Restoration: 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.

Sewer backup & river flooding: During mitigation procedures, dilute 1.1 to 2.2 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 1.1 to 2.2 ounces of the product per gallon of water (859-1718 ppm active quat) 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 thorough 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 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 1.1 ounce of this product per gallon of water.

For truck mounted extraction machines: Mix 13.5 ounces of this product per gallon of water and meter at 4 gallons per hour.

For rotary floor machines: Mix 2.2 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 manufacturers directions.

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

(Use as a sanitizer not allowed for use in California.)

This product sanitizes (cleans and deodorizes) 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 1.1 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 2.2 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use (Use this product) 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 the 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 must not be mixed with other cleaning products.

RESTROOMS

PUBLIC RESTROOMS

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

This product cleans, disinfects and deodorizes surfaces by controlling odor causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use on (restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless

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steel and plastic surfaces associated with floors, walls, fixtures, toilets, toilet seats, urinals, sinks, shower rooms, and locker rooms.

NON-ACID TOILET BOWL (AND URINAL SURFACE) (AND BATHROOM) DISINFECTANT DIRECTIONS

Remove gross filth prior to disinfection.

From Concentrate: Add 1 oz. to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow to stand for 10 minutes and flush.

(Or use alternate Concentrate Use directions)

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

1. Pre-clean heavily soiled areas.
2. Add 1 ounce into toilet bowl (1 gallon of water) for a 1:128 ppm dilution.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

From Use-Solution: Preclean. Empty toilet bowl and apply a use solution of 1 oz per gallon 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 spray applications, use a coarse spray device and swab all areas after spraying.

(Or use alternate Use-Dilution directions)

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

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

For Heavy Duty Cleaning: Preclean. Empty toilet bowl and apply 2 ounces per gallon use solution to exposed surfaces including under the rim with a cloth, mop, sponge or prayer, allow to stand for 10 minutes and flush. For sprayer applications, use a coarse spray device and swab all areas after spraying.

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

1. Pre-clean heavily soiled areas.
2. Apply use solution to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for ten (10) minutes.
Special instructions for foam guns: Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. Note: See foam gun instructions for more information. Make sure setting is set for a 1:128 dilution. Once in place, squeeze the handle to disperse foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes.
3. Scrub using a deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

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

FOOD PROCESSING

Before use as a non-food contact sanitizer in federally inspected meat and poultry food processing plants and dairies, egg processing plants, meat/poultry producing establishments, and mushroom farms, 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.

FOOD SERVICE

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

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

To Disinfect Food-Processing and Tobacco Premises: For floors, walls and storage areas, add 1 ounce of this product to 1 gallon of water (or equivalent use dilution) (781 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. For sprayer applications, use a coarse spray. 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: For countertops, exterior surfaces of appliances, and tables. Before using this product food products and packaging materials must be removed from area or carefully protected. Add 1 ounce of this product to 1 gallon of water (or equivalent use dilution) (781 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. For sprayer applications, use a coarse spray. Allow to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water.

FOR CONTROL OF DROSOPHILIA spp. AND THE PHORIDAE FAMILY OF FLIES ON NON-FOOD CONTACT SURFACES: For control of small flies: Drosophila spp. and the Phoridae family. To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of 3 ounces of this product per 5 gallons of water (or equivalent use dilution) (450 ppm active quat) to surfaces and locations where flies may breed. Spray surfaces thoroughly or apply by pouring, mopping or sponging onto the surface. Repeat application 1-2 times per week or as needed. Do not contaminate food and food packaging.

FOR CONTROL OF SMALL FLIES IN DRAINS: For control of small flies: Drosophila spp. and the Phoridae family. Spray or pour solution of 3 ounces per 5 gallons of water (or equivalent use dilution) (450 ppm active quat) into drain during time of lowest level

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of drain use. Add 14 ounces of solution daily to each drain to maintain fly control. Apply around the edge of the drain and coat all sides of inside of drain.

Disinfecting Potato Storage Area and Equipment: Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow General Disinfection directions. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

ANIMAL PREMISES

Animal Virucidal Performance: This product is an effective Virucide according to the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces test method, on hard, inanimate surfaces, modified in the presence of 5% serum against:

Avian Adenovirus
Avian Influenza A virus
Avian Reovirus
~~Infectious Bursal Disease Virus~~
Infectious Laryngotracheitis
Newcastle disease virus
Porcine Respiratory & Reproductive Syndrome virus (PRRS)
Pseudorabies virus
Swine Influenza A virus
~~Transmissible Gastroenteritis virus~~
Vesicular Stomatitis virus

ANIMAL HOUSING FACILITIES

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

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

Disinfection of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels: Prior to disinfection, remove all poultry, other animals and their feed from premises, trucks, coops and crates. Remove all litter and droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 1 ounce of this product per 1 gallon of water (or equivalent use dilution) (781 ppm active quat). Saturate surfaces with the recommended disinfecting solution 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 for removing litter and manure.

After disinfection, ventilate buildings, coops and other closed spaces. Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

HATCHERIES: For general disinfection, use 1 ounce of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For spray applications, use a coarse spray device. Use 1 ounce of this product per gallon of water for general disinfection. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

DRESSING PLANT AND RENDERING PLANT DISINFECTANT DIRECTIONS (RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS): Cover or remove all food and packaging material before disinfection. Remove gross soils. Disinfect walls and floors in poultry and animal dressing plants with a solution of 1 ounce of this product per gallon of water (or equivalent use dilution) (781 ppm active quat). Surfaces must remain wet for 10 minutes. Disinfect all rooms, exterior walls and loading platforms of dressing plants.

FARM PREMISE USE (Equine, Poultry/Turkey, Dairy and Hog Farms): 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 1 ounce 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. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

OR

FARM PREMISE DISINFECTION DIRECTIONS

For Use in Equine, Dairy and Hog Farms:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, (stalls), chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.

8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

Veterinary Clinics/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and grooming Establishment/Tack Shops Disinfection

Directions: For cleaning and disinfecting the following hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1 ounce per gallon (781 ppm active quat) 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.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

This product is an effective non-food contact sanitizer (as evaluated using the Method for Efficacy of Sanitizers recommended for Inanimate non-food Contact Surfaces) at 200 ppm (1 ounce per 4 gallons of water solution) (or equivalent use solution) in the presence of 5% organic soil (Fetal Bovine Serum) (Serum) with a contact time of 1 minute against the following:

Campylobacter jejuni
Escherichia coli O157:H7
Klebsiella pneumoniae
Listeria monocytogenes
Salmonella enterica

Salmonella enteritidis
Shigella dysenteriae
Staphylococcus aureus
Yersinia enterocolitica

Preparation of Sanitizer Use Solution: For floors, walls, tables, etc. At 1 ounce per 4 gallons of water use-level, this product is an effective sanitizer on hard, non-porous environmental surfaces.

Apply sanitizer use solution to precleaned, hard, non-porous surfaces with a cloth, mop, sponge, sprayer, foam generator or by immersion. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-9 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

NOTE: With spray applications cover or remove all food products.

Treated surfaces must remain wet for 1 minute. Then wipe with sponge, mop or cloth or allow to air dry (and evaporate).

FOOD PROCESSING

Before use as a sanitizer in federally inspected meat, tobacco and poultry processing plants and dairies, egg processing plants, meat/poultry producing establishments, and mushroom farms, 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.

SHOE BATH SANITIZER DIRECTIONS: To prevent ~~contamination of~~ animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made sanitizing solution must 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 ¼ ounce of this product per gallon of water (or equivalent use dilution) (200 ppm active) solution for 60 seconds prior to entering area.

Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

SHOE FOAM DIRECTIONS: To prevent ~~contamination of~~ animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 1 to 1.5 ounces per gallon of water (or equivalent use dilution) (781 to 1171 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacture of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 60 seconds prior to entering area. Foam area must be washed and replaced at least daily or when it appears dirty.

(For food processing plants or other facilities that have installed entryway sanitizing systems.)

ENTRYWAY SANITIZING SYSTEMS: To prevent cross contamination ~~from area to area~~, set the system to deliver (1.25 – 2.5 oz. per 2.5 gallons of water) (390 – 781 ppm active) of sanitizing solution. The (spray) (foam) must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

FOAMING SANITIZER FOR FLOOR DRAINS

~~Foaming also allows for~~ penetration of your product. Foam carries active ingredients ~~throughout the full~~ drain (sewer) pipe.

Concentrated liquid foamer for effective sanitizing. This product utilizes a unique foaming surfactant system which is synergistically formulated to give you long lasting foam for contact on all surfaces.

May be used in all types of foaming equipment that can deliver a (precise) dilution of 1:256 product to water.

It is widely accepted that it is easier to maintain drains than to unstop clogged ones.

Essentially odorless in use.

No additional foam booster required.

Apply foam to all surfaces

For (Floor) Drains and Trough Drainage Systems.

The foam generated from this product is an effective non-food contact sanitizer (as evaluated using the Method for Efficacy of Sanitizers recommended for Inanimate Non-Food Contact Surfaces) at 390 ppm (2 ounces per 4 gallons of water solution) (or equivalent use solution) in the presence of 50% organic soil (Fetal Bovine Serum) (Serum) with a contact time of 5 minutes against the following:

Enterobacter aerogenes
Listeria monocytogenes

Staphylococcus aureus

Floor Drain and Drainage Systems Foaming Sanitizer: At 2 ounces per 4 gallons (1 ounce per 2 gallons) (or equivalent) (390 ppm) this product is an effective drain foaming sanitizer. ~~Thoroughly preclean drain with brush applicator prior to sanitization. Sanitization will occur only on precleaned surfaces of the drain. Apply (shoot) foam into drain using either the Lafferty Equipment Manufacturing, Inc.'s HV Foamer, Model #916105, or the, Model A-25/A-50 Airless Foamer. Set equipment according to the manufacturers' instructions in order to deliver 1:256 dilution of this product with water. Hold foaming nozzle (wand) to floor drain or into drainage (opening)~~

trough. Hold foaming discharge nozzle with attached drain cover footplate snug against drain opening to assure foam does not back up out of drain. Foam for at least 6 seconds or longer depending upon length of drainpipe to sanitize. Lafferty foaming equipment will fill a 8-foot run of four inch pipe for every 6 seconds of application. Foam will completely fill pipe and push water through the (J) trap or other such catch device. Allow the drain to sit for a minimum of 5 minutes before use. Drain can then be returned to service with or without rinsing. It is recommended that a small amount of water be flushed down the drain to refill the (J) trap. Repeat use at least weekly or as may be needed to control (listed) organism growth. Do not mix other foam additives to the sanitizing solution.

(Use the following instructions when not using Lafferty equipment)

Floor Drain And Drainage Systems Foaming Sanitizer: At 2 ounces per 4 gallons (1 ounce per 2 gallons) (or equivalent) (390 ppm) this product is an effective drain foaming sanitizer. ~~To assure efficacy in a dirty drain this product must be tested and approved in the presence of 50% organic soil load.~~ Thoroughly preclean drain with brush applicator prior to sanitization. Sanitization will occur only on precleaned surfaces of the drain. Using a foam generator or similar device, shoot foam into drain or drainage (opening) trough. Set equipment according to manufacturers' instructions to deliver proper dilution of 1:256. Hold foaming nozzle (wand) to drain or drainage (opening) trough. Foam for at least 10 seconds or longer depending upon length of drain pipe to sanitize. Check with foam equipment manufacturer for exact time to fill length of drain pipe requiring sanitizing. Foam will completely fill pipe and push water through the (J) trap or other such catch device. Allow the drain to sit for a minimum of 5 minutes before use. Drain can then be returned to service with or without rinsing. It is recommended that a small amount of water be flushed down the drain to refill the (J) trap. Repeat use at least weekly or as may be needed to control (listed) organism growth. Do not mix other foam additives to the sanitizing solution.

OTHER

MUSHROOM FARM INDUSTRY USE DIRECTIONS

Site Preparation: The first step in any on going sanitation program must 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 1 ounce of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces must be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use.

For Heavy Duty Cleaning: When greater cleaning is desired, use 1 1/4 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.

Foam Sanitizer of Poultry/Turkey Equipment, Swine Quarters, Equine Quarters, Animal Quarters and Kennels: Prior to sanitization, remove all poultry, other animals and their feed from premises, trucks, coops and crates. Remove all litter and droppings and manure from floors, walls and surfaces of bams, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly preclean all surfaces with soap or detergent and rinse with water. Add (pour) 2 ounces per 4 gallon) (or equivalent use dilution) (200 ppm active) into foam gun bottle and

attach bottle to spray nozzle and ensure gun is attached to hose. (Note: See foam gun instructions for more information. Make sure setting is set for a 1:256 dilution.) Once in place, squeeze the handle to disperse foam solution onto walls, floors, ceilings and other hard nonporous surfaces. To sanitize, all surfaces must remain wet for five (5) minutes. Scrub using a brush, mop, sponge or cloth as necessary. Rinse surfaces thoroughly and let air dry.

After ~~sanitization~~, ventilate buildings, coops and other closed spaces. Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

DIRECTIONS FOR ALTERNATE CONTAINERS

BAG-IN BOX CONTAINERS

How to use this package: This package is designed to be used with dilution control systems only. Open package and connect to dispense according to directions on the box.

Trigger sprayers: Fill bottle from dispenser. Apply to surfaces according to directions above.

Mop Buckets: Fill bucket from dispenser. Set up "Wet Floor" signs. Mop floor surfaces as specified in directions above.

PACKETS (For pre-measured tear open packets)

(Simply) (Tear) open and pour contents into 1 gallon of water. Keep packets in box until ready to use.

OR

Pour contents of (1 oz) packet into 1 gallon of water. Keep packets in box until ready to use.

REFILLS

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

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

FOR DISINFECTION: MIX EACH PACKET WITH
1 GALLON OF WATER

MAQUAT® 710-HF

E.P.A. Reg. No. 10324-159 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 1.0 FLUID OZ.

ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride.....	3.0%
Didecyl Dimethyl Ammonium Chloride	1.5%
Dioctyl Dimethyl Ammonium Chloride.....	1.5%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride.....	4.0%
INERT INGREDIENTS:	<u>90.0%</u>
TOTAL	100.0%

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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