

10324-159

10/1/2010

1/16

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

OCT 1 2010

Subject: Maquat 710-HF  
EPA Registration No.: 10324-159  
Amendment Date: May 10, 2010  
EPA Receipt Date: May 10, 2010

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 directions for use and marketing claims
- Citation of data to support Foaming Disinfection Claims

**Submitted Data**

The following efficacy studies have been cited in support of this application.

Study	MRID Number	Status
Disinfectant: <i>Pseudomonas aeruginosa</i>	472694-01	Acceptable at 1:128 in 5% serum, <b>at 45-90° angle</b> for 10 minutes
Disinfectant: <i>Staphylococcus aureus</i>	472694-02	Acceptable at 1:128 in 5% serum, <b>at 45-90° angle</b> for 10 minutes
Disinfectant: <i>Salmonella enterica</i>	472694-03	Acceptable at 1:128 in 5% serum, <b>at 45-90° angle</b> for 10 minutes

CONCURRENCES

SYMBOL	7510C						
SURNAME	Stark						
DATE	10/1/10						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Conditions

Revise the label as follows:

1) You will recall that the Agency indicated previously (3/14/08) that additional confirmatory efficacy data will be required to support virus, tuberculocidal, and fungicidal claims for future bridging applications (i.e. from liquid to foam application.) Thus the "Foaming Disinfectant/Virucide" claims on page 5 must be deleted as additional data has not been provided.

2) Revise the Precautionary Statements to include the following expanded "Wash thoroughly..." statement as per the Label Review Manual. Revise to include: "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet."

3) 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."

4) Since foam is not transparent, delete the following two claims on page 3 which refer to this product as a clear use solution: "This product is a complete, chemically balanced deodorizer, sanitizer and disinfectant, providing clear use solutions." and "This product is a complete, chemically balanced disinfectant/sanitizer providing clear use solutions."

5) As per the stamped label of 3/14/08, the "Heavy Duty Cleaning" instructions on page 7 indicate that the product should be used at 1:64. Thus revise the foaming directions in this section to also indicate a rate of 1:64.

6) Revise the Storage and Disposal instructions on page 12 in the non-refillable containers with no household or residential uses for container with institutional/commercial/industrial public health uses only section. Delete the following phrase from the Container Handling Disposal section: "If rinsate cannot be used". The rinsate is not to be used since these are products with public health claims.

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.

CONCURRENCES

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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,

*Tracy Lantz*

*for*

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

Enclosure: Stamped Label,  
7510P:T.Lantz:10/1/10:10324-159c

CONCURRENCES

SYMBOL							
SURNAME							
DATE							



**MASON CHEMICAL COMPANY**

**The Quaternary Specialists**

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

EPA Reg. No. 10324-159

EPA 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 and before eating, drinking, chewing gum, 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.

**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.

Disinfectant, Sanitizer (Non-Food Contact Surfaces), Virucide, 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.

Penetrates and Removes Odors caused by Biofilm and Other Organic Contaminates

Foaming Disinfectant for Medical Sink Drains, Floor Drains and Trunk Lines

Foaming Disinfectant & Virucide

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 .....3.0%
- Didecyl Dimethyl Ammonium Chloride .....1.5%
- Diocetyl Dimethyl Ammonium Chloride .....1.5%
- Alkyl (C<sub>14</sub>, 50%; C<sub>12</sub>, 40%; C<sub>16</sub>, 10%)  
dimethyl benzyl ammonium chloride .....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.

*(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

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

ACCEPTED COMMENTS  
in EPA Letter Dated:

**OCT 1 - 2010**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-159

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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

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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 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*

**DISINFECTION PERFORMANCE IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions):** For use in sink drains, floor drains and trunk lines. Maquat® 710-HF is Bactericidal according to the AOAC Use Dilution Test method, on hard, inanimate surfaces, modified in the presence of 5% serum against:

*Pseudomonas aeruginosa*  
*Staphylococcus aureus*  
*Salmonella enterica*

**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 Bronchitis virus*  
*Infectious Laryngotracheitis*  
*Newcastle disease virus*  
*Porcine Respiratory & Reproductive Syndrome virus (PRRS)*  
*Pseudorabies virus*  
*Swine Influenza A virus*  
*Transmissible Gastroenteritis*  
*Vesicular Stomatitis virus*

**NON-FOOD CONTACT SANITIZING PERFORMANCE:** This product is an effective non-food-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*

#### 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, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, 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.
- 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, 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, penitentiaries, correctional institutions, municipal government buildings, 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.

- Health clubs, spas, tanning spas, 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, 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.

(Maquat® 710-HF) (This Product) (Product Name) (when used as directed) (can be used) (is formulated to disinfect) (is formulated for use) on (washable) hard, non-porous (inanimate) (environmental) surfaces such as:

- Countertops (counters), sinks (bathroom, kitchen), tub surfaces, and non-food contact surfaces of Slurpy® machines, and exterior surfaces of refrigerators, ice machines, (stoves) stovetops, appliances, non-food contact equipment.
- Food preparation and storage areas.
- Non-food contact glass, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble, plastic (such as polystyrene, polyvinylchloride, polycarbonate 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.
- Sealed foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- 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.)
- 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 treated area to treated area when used as an entryway sanitizing system.

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 treated area to treat area when used as an entryway sanitizing system.

Foams without (using) additives.

Concentrated liquid foamer for effective disinfectant. 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 1:128 product to water.

No additional foam booster required.

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 from treated area to treated area in 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 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.

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, 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 organisms between treated areas 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 foaming apparatus and low-pressure sprayers.

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 cross 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.

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 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) (non-food contact kitchen surfaces) (bathroom surfaces) (and) (floors). Sanitizes non-food contact (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).

When used as directed, this product removes and controls plugging and odors caused by accumulation of biofilm and other organic contaminants in drains.

## 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, mechanical spray device or foaming 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. For foaming applications, foam must be applied at a rate of 1:128. See device manufacturer for operating instructions. 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 or foaming device, 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.

### FOAMING DISINFECTANT/VIRUCIDE

**FOAMING DISINFECTANT/VIRUCIDE:** At 1 ounce per gallon (or equivalent) (781 ppm) this product is an effective foaming disinfectant. Apply (shoot) foam onto surface 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 1:128 dilution of this product with water. Hold foaming nozzle (wand) to surface. Allow foam to sit on surface for 10 minutes. Let surface air dry or rinse. Do not mix other foam additives to the disinfecting solution.

*(Use the following instructions when not using Lafferty equipment)*

**FOAMING DISINFECTANT/VIRUCIDE:** At 1 ounce per gallon (or equivalent) (781 ppm) this product is an effective foaming disinfectant. Using a foam generator or similar device, shoot foam onto surface. Set equipment according to manufacturers' instructions to deliver proper dilution of 1:128. Apply (shoot) foam onto surface. Allow foam to sit on surface for 10 minutes, then let air dry or rinse. Do not mix other foam additives to the disinfecting solution.

### 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

### FOAMING DISINFECTANT FOR (MEDICAL) SINK DRAINS, FLOOR DRAINS AND TRUNK LINES

Foam carries active into the drain pipes.

Prevents stoppage and odors.

Concentrated liquid foamer for effective disinfection. 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 1:128 product to water.

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

No additional foam booster required.

Apply foam to all surfaces of the drain.

For (Floor) (Sink) Drains and Trough Drainage Systems.

Helps reduce the spread of bacterial contamination as a result of the blockage of drains and the splashing effect.

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*

### SINK AND FLOOR DRAIN AND DRAINAGE SYSTEMS FOAMING DISINFECTANT:

At 1 ounce per gallon (or equivalent) (781 ppm) this product is an effective foaming disinfectant in (medical facility) (institutional) sinks, floor drains and trunk lines. Thoroughly preclean drain with brush applicator prior to disinfection. Brush applicator bristles must be one inch in diameter larger than the inner diameter of the drain pipe. Disinfection will only occur on precleaned surfaces of the drain. Apply (shoot) foam into drain using either the Innovative Cleaning Equipment HV Foamer, Model #916105, or the, Model A-25/A-50 Airless Foamer. Set equipment according to the manufacturers' instructions in order to deliver 1:128 dilution of this product with water. Hold foaming nozzle (wand) to sink, floor drain or into drainage (opening) trough. Hold foaming discharge nozzle against or in drain opening to assure foam does not back up out of drain. Foam for at least 10 seconds or longer depending upon length of drainpipe to disinfect.

Foam must completely fill pipe and push water through the (J) trap or other such catch device. Allow foam to sit on drain surface for 10 minutes, then let air dry or rinse. Do not mix other foam additives to the disinfecting solution. A small amount of water must be flushed down the drain to refill the (j) trap. Repeat use at least weekly or as needed to control (listed) organism growth.

*(use the following instructions when not using Innovative Clean Equipment)*

At 1 ounce per gallon (or equivalent use dilution) (781 ppm) this product is an effective foaming disinfectant in (medical facility) institutional sinks, floor drains and trunk lines. Thoroughly preclean drain with brush applicator prior to disinfection. Brush applicator bristles must be one inch in diameter larger than the inner diameter of the drain pipe. Disinfection will only occur 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 the manufacturers' instructions in order to deliver 1:128 dilution of this product with water. Hold foaming nozzle (wand) to floor drain or into drainage (opening) trough. Hold foaming discharge nozzle against or in drain opening to assure foam does not back up out of drain. Foam for at least 10 seconds or longer depending upon length of drainpipe to disinfect.

Foam must completely fill pipe and push water through the (J) trap or other such catch device. Allow foam to sit on drain surface for 10 minutes, then let air dry or rinse. Do not mix other foam additives to the disinfecting solution. A small amount of water must be flushed down the drain to refill the (j) trap. Repeat use at least weekly or as needed to control (listed) organism growth.

### 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.



**DRAIN/SINK FOAM DEODORIZATION:** When used as directed, this product removes and controls plugging and odors caused by accumulation of biofilm and other organic contaminants in drains. Deodorization will only occur on precleaned surfaces of the drain. Thoroughly preclean drain with brush applicator prior to deodorization. At 1 ounce per gallon (or equivalent use dilution) (781 ppm), this product is an effective foaming deodorizer in (medical facility) institutional sinks, floor drains and trunk lines. Brush applicator bristles must be one inch in diameter larger than the inner diameter of the drain pipe. Using a foam generator or similar device, shoot foam into drain or drainage (opening) trough. Set equipment according to the manufacturers' instructions in order to deliver 1:128 dilution of this product with water. Hold foaming nozzle (wand) to floor drain or into drainage (opening) trough. Hold foaming discharge nozzle against or in drain opening to assure foam does not back up out of drain. Foam for at least 10 seconds or longer depending upon length of drainpipe to deodorize. Foam must completely fill pipe and push water through the (J) trap or other such catch device. Allow foam to sit on drain surface for 10 minutes, then let air dry or rinse. Do not mix other foam additives to the deodorizing solution. A small amount of water must be flushed down the drain to refill the (j) trap. Repeat use at least weekly or as needed to control odors.

**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. Saturate affected materials with a solution of 1 ounce product per gallon of water such that surfaces remain wet for at least 10 minutes. Use proper ventilation.

**SMOKE DAMAGE RESTORATION** (Not for use 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. Saturate affected materials with a solution of 1 ounce product per gallon of water such that surfaces remain wet for at least 10 minutes. Use proper ventilation.

**SEWER BACKUP & RIVER FLOODING** (Not for use in California.): 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** (Not for use in California.): 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 DEODORIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE**

This product 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 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, 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. 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, sprayer or foaming device. 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. For foaming applications, foam must be applied at a rate of 1:64 ppm. See device manufacturer for operating instructions.

*(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, sprayer or foaming device, allow to stand for 10 minutes and flush. For sprayer applications, use a coarse spray device and swab all areas after spraying. For foaming applications, foam must be applied at a rate of 1:128 ppm. See device manufacturer for operating instructions.

#### 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. (Foam use not allowed in California)

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 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:** Before using this product, food products and packaging materials must be removed from area or carefully protected. 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, hand pump trigger sprayer or foaming device so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray. For foaming applications, foam must be applied at a rate of 1:128 ppm. See device manufacturer for operating instructions. Allow to remain wet for 10 minutes, then remove excess liquid. 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, hand pump trigger sprayer or foaming device so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray. For foaming applications, foam must be applied at a rate of 1:128 ppm. See device manufacturer for operating instructions. 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 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 Bronchitis virus*  
*Infectious Laryngotracheitis*  
*Newcastle disease virus*  
*Porcine Respiratory & Reproductive Syndrome virus (PRRS)*  
*Pseudorabies virus*  
*Swine Influenza A virus*  
*Transmissible Gastroenteritis*  
*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 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, scrappers 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.

**FOAM DISINFECTANT OF POULTRY/TURKEY EQUIPMENT, SWINE QUARTERS, EQUINE 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 preclean all surfaces with soap or detergent and rinse with water. Add (pour) 1 ounce per gallon (or equivalent use dilution) (781 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 1:128 dilution.*) Once in place, squeeze the handle to disperse foam solution onto walls, floors, ceilings and other hard nonporous surfaces. To disinfect, all surfaces must remain wet for ten (10) minutes. Scrub using a brush, mop, sponge or cloth as necessary. Rinse surfaces thoroughly and let air dry. (*Foam use not allowed in California*)

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.

**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 or foaming device 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.

**SANITIZING USING FOAM GUN (*Foam use not allowed in California*)**

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*

**SPECIAL INSTRUCTIONS FOR FOAM GUNS:** *Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. Note: See foam gun instructions for more information. Make sure setting is set for a 1:256 dilution. Once in place, squeeze the handle to disperse foam solution. To sanitizer, all surfaces must remain wet for five (5) minutes.*

**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 cross contamination from treated area to treated area in 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 cross contamination from treated area to treated area in 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 treated area to treated 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

Foam carries active into the drain pipes.

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.

o additional foam booster required.

Apply foam to all surfaces of the drain.

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 an 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. 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 1¼ 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 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 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. (Foam use not allowed in California)

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.

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## 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 DISINFECTION:** (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

**FOR DISINFECTIONS:** 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.



(Note to reviewer: The title and first statement of this section must appear on every label, followed by the appropriate Storage and Disposal section.)

## STORAGE AND DISPOSAL

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

(FOR USE ON NON-REFILLABLE CONTAINERS WITH HOUSEHOLD/RESIDENTIAL USES)

**STORAGE AND DISPOSAL:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**Non-refillable container.** Do not reuse or refill this container. Triple rinse (or equivalent). Wrap and put in trash or offer for recycling if available.

**BATCH CODE:** (Can be placed on container or label)

(FOR USE ON NON-REFILLABLE CONTAINERS WITH NO HOUSEHOLD OR RESIDENTIAL USES. USE ON CONTAINERS WITH INSTITUTIONAL/COMMERCIAL/INDUSTRIAL PUBLIC HEALTH USES ONLY)

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. 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 HANDLING DISPOSAL:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). Triple rinse (or equivalent). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. ~~Do not~~ follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

**RESIDUE REMOVAL INSTRUCTIONS (For containers less than 5 gallons):** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**RESIDUE REMOVAL INSTRUCTIONS (For containers greater than 5 gallons):** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times.

**BATCH CODE:** (Can be placed on container or label)

(FOR USE ON NON-REFILLABLE CONTAINERS WITH WITH INSTITUTIONAL/COMMERCIAL/INDUSTRIAL NON-PUBLIC HEALTH USES ONLY)

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. 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 HANDLING DISPOSAL:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

**RESIDUE REMOVAL INSTRUCTIONS (For containers less than 5 gallons):** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**RESIDUE REMOVAL INSTRUCTIONS (For containers greater than 5 gallons):** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store for later use or disposal. Repeat this procedure two more times.

**BATCH CODE:** (Can be placed on container or label)

(FOR USE ON REFILLABLE CONTAINERS)

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. 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 HANDLING DISPOSAL:** Triple rinse (or equivalent). Refill this container with this product only. Do not reuse this container for any other purpose.

**RESIDUE REMOVAL INSTRUCTIONS (For containers greater than 5 gallons with Industrial/Commercial Non-public Health Uses):** Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**RESIDUE REMOVAL INSTRUCTIONS (For containers greater than 5 gallons with Industrial/Commercial Public Health Uses):** Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times.

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

FOR DISINFECTION: MIX EACH PACKET WITH  
1 GALLON OF WATER

**MAQUAT<sup>®</sup> 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<sub>14</sub>, 50%; C<sub>12</sub>, 40%; C<sub>16</sub>, 10%)  
dimethyl benzyl ammonium chloride ..... 4.0%

**INERT INGREDIENTS:**..... 90.0%  
**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"**



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