

10324-85

2/14/2005

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

1/15

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

FEB 14 2005

SUBJECT: Maquat 86-M  
EPA Registration Number: 10324-85  
Applications Dated: August 17, 2004  
Receipt Date: August 18, 2004

Dear Ms. Tannehill:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

- update label language
- add public health pests

#### Efficacy Comments

You have cited MRID 457837-01 to support a claim for this product against Hantavirus. Additional directions for use specific to treatment of surfaces contaminated with Hantavirus are required. Add the following text to your label on page five immediately below the directions for the use of this product against HBV, HCV, and HIV for the treatment of areas which may be contaminated with Hantavirus:

"Special Instructions for Cleaning and Decontaminating areas which may be infested with Hantavirus.

Infection with Hantavirus occurs by inhalation of infectious materials. Persons involved in cleanup must wear coveralls, (disposable, if possible), rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air (HEPA) filter respirator or a powered air-purifying respirator (PAPR) with HEPA filter. Decontaminate Personal Protective gear upon

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removal at the end of the day. If the coveralls are not disposable, they must be laundered on site. If no laundry facilities are available, the coveralls must be immersed in liquid disinfectant until they can be washed.

All potentially infective waste material (including respirator filter) from cleanup operations that cannot be burned or deep buried on site must be double bagged in appropriate plastic bags. The bagged material must then be labeled as infectious (if it is to be transported) and disposed of in accordance with local requirements for infectious waste.

Rodent droppings and visible dust may be reservoirs for Hantavirus. If you are cleaning out a building that has been closed up, such as a cabin, shed or garage:

1. Air out the building for at least 30 minutes by opening windows and doors.
2. Leave the building while it is airing out.
3. Do not vacuum, sweep or dust. This may spread the virus through the air.
4. Thoroughly wet the contaminated areas with the product and allow to stand undisturbed for contact time specified by the manufacturer's label.
5. Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
6. Treat the surface again following the manufacturer's label directions."

#### Additional Label Comments

Make the following changes to your labeling:

- A. Make the following revision to page two:

Delete the parenthesis from the seventh statement to read: "This product delivers...an economical ready to use solution."

- B. Make the following revisions to page three:

1. Correct the statement (left column, tenth item) to read "...grease and *grime*."
2. Correction the section (left column, eleventh item) to read: "Escherichia coli...are common *bacteria* found where food...product kills these *bacteria* and helps prevent..."  
You have not listed bacteria, pathogenic fungi and viruses in this section, thus the term "germ" is not appropriate.
3. Correction the section (left column, thirteenth item) by deleting the reference to "Antibacterial" as the section discusses pathogenic fungi not bacteria.
4. Correct the statement (left column, fifteenth item) to read: "Kills common kitchen (bathroom) germs." deleting "(and viruses)." as these are included in the term "germs."

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5. Delete the entire statement (left column, eighteenth item) which begins: "This product is effective against Citrus Canker..." as this ready to use product does not provide the high ppm level of the cited product (860 ppm vs. 2060 ppm for 10324-80).

6. Correct the statement (right column, twentieth item) to read "...*bowling* alleys."

C. Make the following revisions to page four:

1. Change "moonwalk" to read "*moonwalks*" and "obstacle coarse play" to read "obstacle *course* play."

2. Delete the entire section from the Directions for Use which begins "Solution used to disinfect medical devices..." and ends: "...Must have clear instructions for mixing and use." The Agency currently **does not** classify disinfectants as either "low or medium level" activity.

3. Delete the reference to "Crypton barrier fabrics" from the directions for the use of this product for "Disinfection, Virucidal and Fungicidal Control." We need additional information on this type of material so that we can understand:

- A. the surfaces (furniture?) and sites (hospitals?) in which this type of material will be used.
- B. provide available marketing information as to where and how this product is used
- C. additional data as to whether this product remains "non-porous" for the life of the article to which it is applied.
- D. how will the consumer know that the item they are treating includes a fabric which has the Crypton barrier?
- E. please reformat the submitted study on Crypton barrier fabric so that this study can receive an MRID.

D. Make the following revisions to page five:

1. Delete the following two organisms from the list of bacteria (see reasoning in B. 5. above): *Xanthomonas axonopodis* pv. *Citri* and *Xanthomonas campestris* pv. *Vesicatoria*.

2. Revise the directions "For Schools, Industry and Non-Medical Institutional Uses" as follows: delete the statement beginning: "Prepare a fresh solution..." and ending: "...diluted or soiled." with the following as this product is not prepared as a solution, but is used undiluted as sold: "Apply product undiluted and replace if product becomes soiled."

3. Revise the directions for "Kills HBV, HCV and HIV on precleaned Environmental Surfaces..." by adding the abbreviation, HCV and complete name; Hepatitis C Virus to the end of this statement.

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4. Revise the directions "For Odors Caused by Dogs, Cats and other Domestic Animals" to read as follows: "...mats, *litter* boxes..." and to end as follows: "...Then follow directions for "General Deodorization."

E. Make the following revisions to page six:

1. Change "moonwalk" to read "*moonwalks*" and "obstacle coarse play" to read "*obstacle course* play."

2. Revise the directions for "Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions:" by revising the last statement of that section to read as follows since this is a ready to use product: "Use product undiluted and replace if product becomes soiled."

3. Revise the directions for "Disinfection of hard, Non-Porous Surfaces in Footbaths" by revising the statement beginning "Saturate surfaces..." to read: "*Using* undiluted solution to *saturate* exposed surfaces with a cloth, mop, sponge or sprayer." In addition, changing the order of the statements as follows: "...Brush or swab...and allow to stand for 10 minutes. *For spray applications, use a coarse spray device. Do not breathe spray.* After the unit has been thoroughly disinfected..."

4. Revise the label such that the entire heading "Non-Acid Toilet Bowl (and Urinal) Disinfection/Cleaner Directions" is together in the same column of the page. In addition, revise the directions for "From Concentrate" by deleting the heading "From Concentrate" and changing to begin as follows: "*Remove water from the toilet bowl. Apply 1-2 ounces of undiluted product* to the toilet bowl..."

5. Revise the directions "For Heavy Duty Cleaning" of toilet bowls by revising the first sentence to read: "Empty toilet bowl or urinal and apply 8 ounces *of product* to exposed surfaces..."

6. The sections for "Disinfection of Hard Non-Porous Surfaces in Whirlpool Units" and on "(Fiberglass) Bath and Therapy Equipment" must be revised as per the last stamped label so that the directions are appropriate for a ready to use product. Delete the following two phrases from each section: "and refill with fresh water to just cover the intake valve" and "Briefly start the pump to circulate the solution. Turn off the pump."

7. Add the following statement to the directions "To Disinfect Food Service Establishments Food Contact Surfaces": "*After use, all surfaces in the area must be thoroughly rinsed with potable water.*" Also indicate that this product is not for use on interior surfaces of appliances (beginning of page seven.)

F. Make the following revisions to page seven:

1. Delete the "Directions for Fogging" and the associated fogging "Note". Your product does not support this use as the cited product, 10324-80 is used at 1200 ppm while your

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product only provides 860 ppm active ingredients.

2. Delete the claims for "equipment and utensils" from the directions for "Dressing and Rendering Plant Use" and "Rendering Plant/Dressing Plant Disinfectant/Fungicide/Virucide Directions". These surfaces are comparable to dishes and cookware which may not be disinfected.

3. Revise the "Farm Premise Use" directions to read: "...scrub all treated feed racks, *mangers*..."

4. Revise the "Farm Premise Disinfection Directions" such that #5 states: "Saturate all surfaces with undiluted product *for a period of 10 minutes.*"

G. Make the following revision to page eight:

1. Revise the Veterinary Practice Directions to indicate: "Remove all *animals and feeds*..."

2. Delete the entire set of directions for the use of this product against citrus canker and bacteria spot of tomatoes (see B. 5. above).

3. Since the section on "Poultry and Swine Premise Sanitization" refers to disinfection, and the organisms of interest at these sites are killed at the disinfection rate, move the sections beginning "Site Preparation" and "Application and Use dilution..." into the disinfection section of the label also deleting the reference to "use dilution" which is not appropriate for this product. Also revise the "Poultry and Swine Premise Sanitation" to read as follows: change "wails" to read "walls," and change "...feeding end watering appliance" to read "feeding and watering appliances..."

4. Revise the statement at the beginning of the "Shoe Bath Sanitizer" section to state: "To prevent *cross contamination* into *treated* animal areas..."

5. Revise the "Footbath Sanitizer Directions" such that the rate is in agreement with the non food contact sanitizing data by indicating a contact time of 5 minutes. Also revise by changing the order of the statements as follows: "...Brush or swab...to stand for 5 minutes. *For spray applications, use a coarse spray device. Do not breathe spray.* After the unit has been thoroughly sanitized..."

H. Make the following revisions to page nine:

Revise the "Directions for Household Use" to indicate that this product is for the treatment of "*exterior* surfaces of appliances, refrigerators and freezers."

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### **Revisions to Data Matrix**

The following corrections have been made to the submitted Data Matrix dated 7/16/04. Make the same corrections to the matrix in your files: at the beginning of page 2, delete the reference to "Avian" when referring to MRID 44269010 and on page 3, delete the reference to Citrus Canker MRID 45479701 which supports the use of 10324-72 at 2000 ppm.

### **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 (7510C)

Enclosures: Stamped label  
7510C:T.Lantz:2/14/05:10324-85c

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**CAUTION.** Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

*(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 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).

*(Storage and Disposal for Households)*

**STORAGE AND DISPOSAL**

Store in areas inaccessible to small children. Wrap in newspaper and discard in trash or recycle.

**MAQUAT<sup>®</sup> 86-M**

Disinfectant, Cleaner, Mildewstat, Fungicide, Sanitizer (non-food contact surfaces), Virucide\*, Deodorizer for Hospitals, Nursing Homes, Whirlpools, Home, Institutional, Industrial, Schools, Dairy, Equine, Poultry/Turkey, Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use and for Harvesting & Handling Equipment. Effective in hard water up to 400 ppm hardness (Calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

Non-Acid Bathroom Cleaner.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

**ACTIVE INGREDIENTS:**

Octyl Decyl Dimethyl Ammonium Chloride .....	0.026%
Didecyl Dimethyl Ammonium Chloride .....	0.013%
Diocetyl Dimethyl Ammonium Chloride .....	0.013%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	0.034%

<b>INERT INGREDIENTS:</b> .....	99.914%
<b>TOTAL</b> .....	100.000%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See left panel for additional precautionary statements.

**First Aid**

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

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**MASON CHEMICAL COMPANY**

"THE QUATERNARY SPECIALISTS"

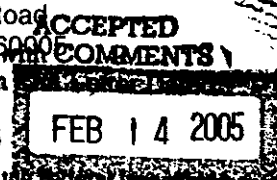
721 W. Algonquin Road

Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855



E.P.A. Reg. No. 10324-85

E.P.A. Est. No. 10324-85

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-85

NET CONTENTS

BATCH NO

This product contains no phosphorous.

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

This product maximizes labor results by effectively controlling odors.

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

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

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

This product delivers non-acid disinfection performance in an economical ready to use solution.

This product (formulation) is a one step (ready to use) (hospital use) disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal\*, fungicidal, and will inhibit the growth of mold and mildew and their odors when used as directed.

This product is an economical (ready to use) solution that can be used with a mop and bucket, trigger sprayers, or sponge.

This product will not leave a grit or soap scum.

Will not cause swelling of transducer membrane or harm compressor plates. (10324-80)

This product is a versatile disinfectant/sanitizer for Veterinarian, Veterinary Practice, Animal Care, Animal Laboratory, and Agricultural and Farm Premise applications. (10324-86)

This product is a complete, chemically balanced disinfectant/sanitizer that provides a clear solution. (10324-80)

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. (Not for use in California)

This product is recommended for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors. (10324-80) (Not for use in California)

This product is recommended for use as a disinfectant on hard, non-porous surfaces. A potable water rinse is required after application on food contact surfaces.

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

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

Use this product to disinfect/sanitize non-porous salon/barber tools and instruments: (such as) combs, clippers, brushes, trimmers, razors, scissors, blades, tweezers, and manicure/pedicure instruments and footbath surfaces. (10324-80)

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

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

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

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew. (10324-80)

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

This product is effective against household germs and odors (caused) by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors. (10324-80)

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

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

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

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

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

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

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

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

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

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses. (Not for use in California)

When used as directed, this product will disinfect hard, non-porous surfaces, such as flower buckets, floors and walls of coolers, design and packing benches, and countertops. (Not for use in California)

This product may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop. (Not for use in California)

Use this product to clean, disinfect and deodorize flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors may develop. (Not for use in California)

This product may be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, green house packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause: (Not for use in California)

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips.



2. Production of ethylene gas, which may injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria.

**Floor cleaner. (10324-80)**

One-step cleaner.

Cleans everyday kitchen messes.

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

Cleans and shines.

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

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

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

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

Escherichia coli (E. coli), Salmonella choleraesuis (Salmonella), and Staphylococcus aureus (Staph) are common germs found where food is prepared and stored. This product kills these (harmful) germs and helps prevent the spread of food borne contamination on treated kitchen surfaces listed on this label. A potable water rinse is required after application on food contact surfaces. This product is not for use on dishes, glassware or eating utensils. (10324-80)

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

Kills Trichophyton mentagrophytes (the agent that causes Athlete's Foot fungus) on bathroom surfaces.

Hospital use Disinfectant. Institutional Disinfectant (Sanitizer).

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

Effective sanitizer in the presence of 5% serum contamination. (This product is an effective disinfectant/sanitizer in the presence of 5% serum contamination.) (10324-80)

Effective sanitizer in the presence of soils. (This product is an effective sanitizer in the presence of soils.) (10324-80)

Effective against bacteria, viruses, fungi, and protozoa on food contact surfaces, floors, walls, ceilings, storage and transportation equipment.

This product is recommended for Poultry Premise Sanitation (Hatcheries):

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

This product is recommended for Swine Premise Sanitation:

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

Maquat® 86-M for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, isolation wards, and medical research facilities.
- Patient care rooms & facilities, recovery, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpools, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms. (10324-80)
- 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.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores.
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms. (10324-80)
- Police stations, courthouses, municipal government buildings, prisons, jails, 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. (10324-80)
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households). (10324-80)
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums. (10324-80)
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities.
- Heath clubs, spas, tanning spas, tanning beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors. (10324-80)
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys. (10324-80)
- Recycling centers.
- Humidifier water tanks. (10324-80)
- 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.
- Processing facilities for Fish, Milk, Citrus, Fruit, Vegetable, Ice Cream, Potatoes and beverage plants, and tobacco plant premises. (10324-80)
- 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. (10324-80)
- Cruise lines, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms, and porches. (10324-80)

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

- Food preparation and storage areas. (10324-80)
- Countertops (counters), stovetops (stoves), sinks (bathroom, kitchen), tub surfaces, non-food contact surfaces of Slurppy<sup>®</sup> machines, and exterior surfaces of appliances, refrigerators, ice machines. (10324-80)
- 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, chrome and vinyl. (10324-80)
- Enameled surfaces, painted woodwork (finished), Formica<sup>®</sup>, vinyl and plastic upholstery. (10324-80)
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons. (10324-80)
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large, inflatable, non-porous plastic and rubber structures: animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment.
- Picnic tables and outdoor furniture.
- Telephones and telephone booths.
- Highchairs.
- Drinking fountains.
- Commercial Florist and flower shops.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, porcelain tile and restroom fixtures. (10324-80)
- Ultrasonic baths, whirlpools, whirlpool bathtubs. (10324-80)
- Kennels, kennel runs, kennel/cage floors, conductive flooring. (10324-80)

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

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

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

This product has passed the Virucidal Effectiveness Test using Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus). (10324-80)

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Human Coronavirus. (10324-80)

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

### DIRECTIONS FOR USE

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

~~Solution used to disinfect medical devices, instruments and equipment. This solution may be used as a cleaning agent, and once device is properly cleaned, solution will provide lower level of disinfection. Solution must be able to be used with normal ventilation and non-toxic for breathing and will not cause harm to equipment or patients with normal contact after being disinfected. Must have clear instructions for mixing and use. (10324-80)~~

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 language if not used on medical devices or medical equipment)*

Not for use on medical devices or medical equipment surfaces.

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

### Disinfection, Virucidal\* and Fungicidal Control

This is a proven one-step disinfectant, cleaner, sanitizer, fungicide, mildewstat, virucide\* which is effective in the presence of 5% serum contamination and in water up to 400 ppm hardness.

Apply this product undiluted to walls, floors and other hard, (inanimate) non-porous surfaces such as ~~tables, chairs, countertops, sinks, glazed tile, glazed porcelain and bed frames with a cloth, mop or mechanical spray device so as to thoroughly wet surfaces. Treated surfaces must remain wet for 10 minutes. If mechanical spray device is used, spray should be coarse. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray (mist). Rinse with potable water after use on surfaces that come in contact with food. (10324-80)~~

**NOTE:** With spray applications cover or remove all food products. Prepare a fresh solution at least daily or when visibly soiled or diluted. For heavily soiled areas, a preliminary cleaning is required. (10324-80)

For heavily soiled areas, a preliminary cleaning is required. To disinfect hard, non-porous surfaces, treated surfaces must remain wet for 10 minutes. Then wipe excess with sponge, mop or cloth or allow to air dry.

This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces, modified in the presence of 5% organic serum against: (10324-80)

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

Fungicidal against *Candida albicans* and *Trichophyton mentagrophytes* (the agent that causes athlete's foot fungus) on inanimate surfaces in locker rooms, dressing rooms and shower and bath areas and exercise facilities in the presence of 5% blood serum and 400 ppm water hardness as  $\text{CaCO}_3$ . Apply this product undiluted and follow the directions under "Disinfection, Virucidal\* and Fungicidal Control".

**Virucidal\* Performance:** This product was evaluated and found to be effective in the presence of 5% serum and 400 ppm hard water against the following viruses on inanimate hard non-porous environmental surfaces. Treated surfaces must remain wet for 10 minutes. For heavily soiled areas, a preliminary cleaning is required. (10324-80)

Avian influenza A/Turkey/Wisconsin	Infectious Bovine Rhinotracheitis virus (IBR)
Canine Distemper	Influenza A/Brazil Virus
Herpes Simplex Type1	Newcastle disease virus
Herpes Simplex Type2	Porcine Respiratory & Reproductive Virus (PRRSV)
HIV-1 (AIDS virus)	Porcine Rotavirus
Hepatitis C virus	Pseudorabies virus
Hepatitis B virus	Transmissible Gastroenteritis (TGE)
Human Coronavirus	Vaccinia virus
Canine Coronavirus	Hantavirus

**Hepatitis B Virus:** In the presence of 400 ppm hard water ( $\text{CaCO}_3$ ) and 100% serum this product was proven to be effective against (Duck) Hepatitis B Virus with a contact time of 10 minutes.

**HIV (AIDS virus):** In the presence of 400 ppm hard water and 5% blood serum with a 2 minute contact time, this product was found to be effective against HIV-1 (AIDS virus). (10324-80)

**Hepatitis C Virus:** In the presence of 400 ppm hard water and 5% blood serum with a 10 minute contact time, this product was found to be effective against Hepatitis C virus (HCV). (10324-80)

**For Schools, Industry and Non-Medical Institutional Uses:** This product delivers \*cleaning and germicidal effectiveness. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes diluted or soiled. It is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Escherichia coli* and *Serratia marcescens*. The same AOAC tests used to confirm performance for hospitals were used. (10324-80)

**\*KILLS HIV, HCV AND HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS) and Hepatitis B virus (HBV). (10324-80)

**"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HCV AND HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS."** (10324-80)

**PERSONAL PROTECTION:** Clean up should always be done wearing protective latex gloves, gowns, masks and eye protection. (Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings). (10324-80)

**CLEANING PROCEDURE:** Blood and other body fluids (containing HIV-1, HBV & HCV) must be thoroughly cleaned from surfaces and objects before application of this product. (10324-80)

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

**CONTACT TIME:** Leave surface wet for 2 minutes with undiluted solution. This contact time will not control other common type of viruses and bacteria listed on this label. To be effective against Hepatitis B virus a 10 minute contact time is required.

(OR)

For HIV, leave surfaces wet for two minutes in the presence of 400 ppm hard water ( $\text{CaCO}_3$  and 5% blood serum). This contact time will not control other common types of viruses and bacteria. For HBV, leave surfaces wet for 10 minutes in the presence of 400 ppm hard water ( $\text{CaCO}_3$  and 100% serum). For HCV, leave surfaces wet for 10 minutes in the presence of 400 ppm hard water and 5% organic load.

Efficacy tests have demonstrated that this product is an effective bactericide, virucide and fungicide in the presence of organic soil (5% blood serum). (10324-80)

**General Deodorization:** To deodorize, apply this product undiluted. Excess material should be wiped up or allowed to air dry. (10324-80)

**For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment:** It is especially important to preclean for the product to perform properly. Apply a wetting solution of this product. (10324-80)

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

**Fungicidal Activity:** This product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) and Candida albicans on inanimate, hard, non-porous surfaces in locker rooms, dressing rooms and shower and bath areas and exercise facilities in the presence of 5% blood serum and 400 ppm water hardness as CaCO<sub>3</sub>. Apply this product undiluted and follow the directions under "Disinfection, Virucidal and Fungicidal Control". (10324-80)

**Mold and Mildew Control Directions:** This product will effectively inhibit the growth of mold and mildew (*Aspergillus niger*) and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears.

**Cleansing of Body Surfaces and Body Orifices of Human Remains:** To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, apply this product undiluted to the surfaces and body openings, natural or artificial. Allow a 10 minute contact time for optimal results. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Prepare a fresh solution for application of each remains.

**To control the growth of mold and mildew on large, inflatable, non-porous plastic and rubber structures** (animals, promotional items, moonwalk, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with undiluted solution for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions:** Immerse pre-cleaned barber/salon tools (such as combs, brushes, razors, manicure/pedicure tools, clippers, tweezers, clipper and trimmer blades, and scissors) in undiluted solution. Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled. (10324-80)

**NOTE:** Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

**Disinfection of Hard, Non-Porous Surfaces in Footbaths:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with undiluted solution to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. For spray applications, use a coarse spray device. Do not breathe spray. Do not use equipment until treatment has been absorbed, set or dried. (10324-80)

**Disinfection and Cleaning Toilet Bowls and Urinals:**

1. With a swab mop applicator, remove water from bowl by forcing out trap. Preliminary cleaning is required for heavily soiled surfaces.
2. Press swab mop against side of bowl to remove excess water from applicator.
3. Apply 1-2 oz. Of this product evenly onto surface to be cleaned and disinfected.
4. Swab entire surface area especially under the rim where outlets are located.
5. Allow this product to remain wet on surfaces at least 10 minutes.
6. Flush toilet and rinse applicator thoroughly.

(OR)

**NON-ACID TOILET BOWL (AND URINAL)**

**DISINFECTION/CLEANER DIRECTIONS (10324-80)**

Remove gross filth prior to disinfection.

**From Concentrate:** Apply undiluted solution to the toilet bowl. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Allow to stand for 10 minutes and flush.

**For Heavy Duty Cleaning:** Empty toilet bowl or urinal and apply 8 ounces per gallon (64 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow to stand for 10 minutes and flush. For sprayer application, use a coarse spray device.

**Cleaning/Deodorizing Directions:** Apply undiluted solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. If mechanical spray device is used, spray should be coarse. Allow to air dry or wipe up excess liquid.

**Ultrasonic Bath Disinfectant Directions:** Use this product to disinfectant hard (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour fresh undiluted solution directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufactures' (use) directions. Remove objects and wash (rinse) with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use. (10324-80)

**Disinfection of Hard, Non-porous Surfaces in Whirlpool Units:** After using the whirlpool unit, drain all water from unit. Apply this product undiluted. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units. (10324-80)

**For Disinfecting Hard Non-porous (Fiberglass) Bath and Therapy Equipment:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the whirlpool unit, drain the water from the unit. Apply this product undiluted. Wash down the unit sides, seat of the chair lift and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain any solution from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse. (10324-80)

**To Disinfect Food-Processing and Tobacco Premise:** (For) floors, walls and storage areas. For heavily soiled areas, a pre-cleaning step is required. Apply undiluted 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 device. Allow to remain wet for 10 minutes, then remove excess liquid. For sprayer applications, use a coarse (mist or) spray. 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. (10324-80)

**To Disinfect Food Service Establishment Food Contact Surfaces:** (For) countertops, appliances, and tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. For heavily soiled areas, a pre-cleaning step is required. Apply undiluted 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 device. Allow to remain wet for 10 minutes. Then

remove excess liquid and rinse the surface with potable water. This product is not for use on dishes, glassware or eating utensils. (10324-80)

**For use on non-food contact surfaces as a general disinfectant in the brewery industry:** Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Follow the general disinfectant directions above. (10324-80)

**Directions for Fogging:** (For use in dairies, beverage and food processing plants) Prior to fogging, food products and packaging materials must be removed from the room or carefully protected. After cleaning, fog disinfect areas using one quart of undiluted solution per 1000 cubic feet of space. Leave the area of application closed during fogging for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water. (10324-80)

**NOTES:** The fog generated is irritating to the eyes and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individual entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, and long sleeves and long pants. (10324-80)

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES. (10324-80)**

**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, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer. 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. (10324-80)

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. (10324-80)

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. (10324-80)

**Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels Directions:** Remove all animals and feeds from premises, vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer. 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. (10324-80)

After application, 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. (10324-80)

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. (10324-80)

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

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

**DRESSING AND RENDERING PLANT PLANT USE (RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS):** Disinfect floors, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with undiluted solution. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

**RENDERING PLANT/DRESSING PLANT DISINFECTANT/FUNGICIDE/VIRUCIDE DIRECTIONS:** Cover or remove all food packaging material before disinfection. Remove gross soils. Apply to floors, walls and floors in poultry and animal dressing plants with undiluted solution. Surfaces must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Thoroughly rinse all wetted and cleaned surfaces with potable water. (10324-80)

**FARM PREMISE USE:** Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces undiluted product and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, managers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

(OR)

#### **FARM PREMISE DISINFECTION DIRECTIONS(10324-80)**

**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 traversed 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 undiluted product.
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 Practice/Animal Care Animal Laboratory/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 not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals' feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with undiluted product and allow to remain wet 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. (10324-80)

**COMMERCIAL FLORIST USE DIRECTIONS** (Not for use in California): To clean, disinfect and deodorize hard non-porous surfaces in one step remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply undiluted solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, brush, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse (mist) pump or trigger sprayer. Spray 6-8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray (mist). Treated surfaces must remain wet for 10 minutes. Allow to air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

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

**Citrus Canker Control and Control of Bacteria Spot of Tomatoes** (Not for use in California): For prevention of Citrus Canker and Bacteria Spot of Tomatoes Diseases through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. citri (Citrus Canker) and *Xanthomonas campestris* pv. vesicatoria (bacteria spot of tomatoes). Treat all trucks, vehicles, and equipment thoroughly. Treatment can be applied to truck attached trailers, field harvesting equipment; including cargo area, wheels, tires, and carriage, hood, roof, fenders and any other part of transportation equipment that can be broken into infested areas. Prevent the spread of Citrus Canker by this artificial means of transportation. Treatments are made by trigger spraying, dipping or brushing. For sprayer applications, use a coarse spray. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing should be either thoroughly rinsed or laundered before reuse. Footwear should be rinsed before reuse. (10324-80)

#### SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS

This product is an effective sanitizer on hard, non-porous environmental surfaces. Treated surfaces must remain wet for 5 minutes. Allow to air dry.

*Staphylococcus aureus*

*Klebsiella pneumoniae*

**To Sanitize (and Deodorize):** Apply undiluted use solution to hard, inanimate, non-porous surfaces, thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from

surface. Rub with brush, sponge or cloth. Do not breathe spray. Let stand for 5 minutes. Then wipe. Allow to air dry. (10324-80)

#### POULTRY (AND SWINE) PREMISE SANITATION

**Site Preparation:** The first step in any on-going sanitation program should be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly clean all surfaces with soap or detergent and rinse with water. (10324-80)

**Application and Use Dilution Poultry (and Swine):** Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with undiluted solution for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which may contact food or water with soap or detergent, and rinse with potable water before reuse. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

**SHOE BATH SANITIZER (DIRECTIONS):** (To prevent tracking harmful organisms into animal areas, and the packaging and storage areas of food plants,) Shoe baths containing one inch of freshly made undiluted solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in solution for 5 minutes prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty. (10324-80)

**SALON/BARBER INSTRUMENTS AND TOOLS SANITIZER DIRECTIONS:** Pre-clean soiled instruments and tools. Completely immerse water safe non-porous instruments and tools in undiluted solution of this product for at least 5 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

**NOTE:** Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

**Footbath Sanitizer Directions:** To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with solution to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 60 seconds. After the unit has been thoroughly sanitized, rinse all cleaned surfaces with fresh water. For spray applications, use a coarse spray device. Do not breathe spray. Do not use equipment until treatment has been absorbed, set or dried. (10324-80)

**Humidifier Sanitizer Directions:** Thoroughly clean water tank and filters. Add 1 ounce of this product to the tank. (Not for use in California)

(OR)

**Humidifier Bacteria/Algae Treatment:** Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if



necessary. Add 1 ounce of this product. When you refill the tank, add 1 ounce of this product. (10324-117) (Not for use in California)

Not for use in heat or atomizing type humidifiers. (10324-117) (Not for use in California)

**WATER/SMOKE DAMAGE RESTORATION** (Not for use in California) (10324-80)

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

**Sewer backup & river flooding:** During mitigation procedures, remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected 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. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

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

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

**CARPET SANITIZER AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE** (Not for use in California) (10324-80)

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

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

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

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

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

**SMOKE DAMAGE RESTORATION** (Not 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. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation. (10324-80)

**MUSHROOM FARM INDUSTRY USE DIRECTIONS** (10324-80)

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

**Disinfection:** Wet all surfaces thoroughly. Treated surfaces should be allowed to remain wet for 10 minutes. Let air-dry. For heavily soiled areas, pre-clean first. Prepare a fresh solution for each use.

**For Heavy Duty Cleaning:** When greater cleaning is desired, 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.

**DIRECTIONS FOR HOUSEHOLD USE**

**Kitchen/Bathroom/Household Cleaning:** Apply this product undiluted with a cloth, sponge, mop or directly on surface with a mechanical spray. If a mechanical spray is used spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Do not use on paint or acrylic plastics. Wipe the soiled area clean. This product is not to be used on dishware, glasses or eating utensils.

**Disinfect/Deodorize:** To disinfect hard, non-porous surfaces such as floors, walls, counters, sinks, tubs, toilets, glazed tile, appliances, refrigerator or freezer exteriors, microwave exteriors, stove tops and hoods, tables, garbage pails, faucets apply as is with cloth, sponge, mop or mechanical spray. If a mechanical spray is used, spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Treated surface must remain wet for 10 minutes before wiping. For heavily soiled areas a pre-cleaning step is required. The pre-clean step should be done according to the instructions under Kitchen/Bathroom/Household Cleaning. Rinse with potable water after use on surfaces that come in contact with food.