

10324-140

07/07/2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

7 2005

SUBJECT: Maquat MQ2525M-CPV
EPA Registration Number: 10324-140
Application Date: December 29, 2004
Receipt Date: January 1, 2005

Dear Ms. Elizabeth Tannehill:

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

- submission of data to support additional public health organisms
- submission of acute toxicity studies
- addition of directions for use

Acceptable Data

The product specific toxicity and efficacy data is acceptable as follows:

Data Requirement	Means of Support	Status/ Tox. Category
Acute Oral Toxicity	Submitted study, MRID 464388-33	Acceptable/III
Eye Irritation	Submitted study, MRID 464388-36	Acceptable/ I
Skin Irritation	Submitted study, MRID 464388-32	Acceptable/ I
Fungistatic- <i>Aspergillus niger</i>	Submitted study, MRID 464388-01	Acceptable @ 2.25 ounces/gallon, 5% soil in 10 minutes
<i>Staphylococcus aureus</i> -VISA	Submitted study, MRID 464388-02	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Enterococcus faecalis</i>	Submitted study, MRID 464388-03	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes

CONCURRENCES

SYMBOL	7510C						
SURNAME	J. J. [Signature]						
DATE	7/7/05						

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<i>Enterobacteriaceae w/ extended beta-lactamase resistance</i>	Submitted study, MRID 464388-04	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Enterobacter aerogenes</i>	Submitted study, MRID 464388-05	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Listeria monocytogenes</i>	Submitted study, MRID 464388-06	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Salmonella schottmuelleri</i>	Submitted study, MRID 464388-07	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Salmonella typhi</i>	Submitted study, MRID 464388-08	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Corynebacterium ammoniagenes</i>	Submitted study, MRID 464388-09	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Escherichia coli</i>	Submitted study, MRID 464388-10	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Klebsiella pneumoniae</i>	Submitted study, MRID 464388-11	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Streptococcus salivarius</i>	Submitted study, MRID 464388-12	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Staphylococcus aureus</i>	Submitted study, MRID 464388-13,	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Shigella dysenteriae</i>	Submitted study, MRID 464388-14	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Enterococcus faecalis-Vacomycin Resistant</i>	Submitted study, MRID 464388-15	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Bordetella bronchiseptica</i>	Submitted study, MRID 464388-16	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
<i>Serratia marcescens</i>	Submitted study, MRID 464388-17	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal-Pseudorabies	Submitted study, MRID 464388-18	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal-Herpes simplex virus type 2	Submitted study, MRID 464388-19	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal-Feline leukemia virus	Submitted study, MRID 464388-20	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal-Minute virus of Mice (Parvovirus)	Submitted study, MRID 464388-21	Acceptable @ 9.0 ounces/gallon, 5% soil in 10 minutes
Virucidal-Newcastle disease virus	Submitted study, MRID 464388-22	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes

CONCURRENCES

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Virucidal- Hantavirus	Submitted study, MRID 464388-23	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal- Influenza A Virus	Submitted study, MRID 464388-24	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal- Herpes simplex virus Type 1	Submitted study, MRID 464388-25	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal- Vaccinia virus	Submitted study, MRID 464388-26	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal- Human Coronavirus	Submitted study, MRID 464388-27	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal- Human Immunodeficiency Virus Type 1	Submitted study, MRID 464388-28	Acceptable @ 3.0 ounces/gallon, in 400ppm hard water , 5% soil in 2 minutes
Fungicidal- <i>Trichophyton mentagrophytes</i>	Submitted study, MRID 464388-29	Acceptable @ 2.25 ounces/gallon, 5% soil in 10 minutes
Virucidal- Rabies virus	Submitted study, MRID 464388-30	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes
Virucidal- Murine Parainfluenza virus type 1	Submitted study, MRID 464388-31	Acceptable @ 3.0 ounces/gallon, 5% soil in 10 minutes

Conditions

1. Revise the left column of page two by revising the listing of surfaces on which this product may be used. Since this product does not include direction for use on porous surfaces, revise to state: "Picnic tables and outdoor furniture, *except cushions and wood frames.*"

2. Revise page two of your label by correcting to read: "***Bordetella bronchiseptica.***"

3. Revise page two of your label by adding an asterisk as follows: "* Virucidal Performance".

4. On page two, revise the listing of viruses to include the following: "Influenza A Virus," "Newcastle Virus," "Pseudorabies Virus," "Rabies Virus," and "Vaccinia Virus."

5. The submitted data supports a Fungistatic claim against *Aspergillus niger*, not a Fungicidal claim. As such, delete *Aspergillus niger* from the Fungicidal directions and place under a separate heading and set of directions as follows:

"Fungistatic Performance: At 3 ounces per one gallon use level or equivalent dilution, (750 ppm active quat), in the presence of 5% serum with a 10 minute contact time this product will control the growth of the following fungi on hard non-porous surfaces:

CONCURRENCES							
SYMBOL			Aspergillus niger				
SURNAME							
DATE							

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6. Revise the left column of page 3 as follows by stating: "At 3 ounces per gallon of water in the presence of 5% blood serum and 400 ppm of *hard water (CaCO3)* for a 2 minute..."

7. Revise the following statements in the left column of page 3 by deleting the reference to hard water as the submitted data did not support this claim: "At 3 ounces per gallon of water for a 10 minute contact time, this product was found to be effective against Hantavirus." and "At 3 ounces per gallon (or equivalent use dilution) in the presence of 5% organic load, this product was proven to be effective against Hantavirus with a contact time of 10 minutes."

8. Revise the "Contact Time" instructions for HIV on page 3 by including the following information: "Leave surfaces wet for 2 minutes *with a solution of 3 ounces per gallon of water* for HIV-1..."

9. Revise the right column of page three to read: "All potential infective *waste material* (including..."

10. Revise the right column of page three, item d. to read: "Thoroughly wet the contaminated areas with *a solution of 3 ounces of product per gallon of water* and allow to stand..."

11. Revise the "Fungicidal Activity" directions on page 3 by deleting the following information which is not supported by the submitted data: "and 400 ppm water hardness as CaCO₃."

12. Revise the "Mold and Mildew Control Directions" on page 3 to be in agreement with the cited label 10324-80 as follows: "Add *3 ounces per gallon of water to control the growth of mold and mildew (Aspergillus niger) and their odors* on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry..."

13. Delete the claims for "equipment" and "utensils" from the directions for "Rendering Plant/Dressing Plant Disinfectant Directions" on page 4. These surfaces are comparable to dishes and cookware which may not be disinfected. In the sentence which begins: "Equipment and utensils must remain..." revise to state: "*Surfaces* must remain..."

General Comments

Corrections to Data Matrix

The following corrections have been made to the submitted data matrix. Make the same revisions to the matrix in your files and any future data matrixes which may be submitted for this product. Correct the MRID for Feline Rhino virus to read: 4600217. The MRID for Salmonella choleraesuis, Staphylococcus aureus and Pseudomonas aeruginosa is 46148402 not 46002017. Delete the reference to Infectious Laryngotracheitis as this organism is not listed on your labeling.

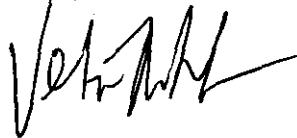
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A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

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)

Enclosure: Stamped label, DER D312664 and D312667
7510C:T.Lantz:7/7/05:10324-140c.

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SURNAME							
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**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. Do not get into eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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

ENVIRONMENTAL HAZARD

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

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, anionic soaps and detergents.

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

STORAGE AND DISPOSAL

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

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

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

CONTAINER DISPOSAL (Larger than 1 gal.): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(If container is one gallon or less use the following storage and disposal statements.)

STORAGE AND DISPOSAL

Store in original container in areas inaccessible to small children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Wrap and discard in trash (or recycle).

MAQUAT® MQ2525M-CPV

Disinfectant, Deodorizer, Virucide* - With Organic Soil Tolerance for, Veterinary Clinics, Pet Shops, Kennels, Animal Care Facilities, Tack Shops, Animal Life Science Laboratories, Breeding And Grooming Establishments, Food Processing Facilities, and Farms.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride 1.60%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride 1.60%

INERT INGREDIENTS: 96.80%

TOTAL: 100.00%

**KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO**

See left panel for additional precautionary statements.

First Aid

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

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

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

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

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

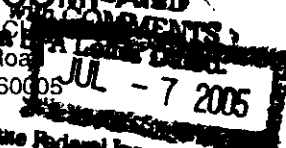
MASON CHEMICAL COMPANY

THE QUATERNARY SPECIALTIES COMPANY
721 W. Algonquin Road
Arlington Heights, IL 60005
847-290-1621



Toll Free
1-800-362-1855
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 10324-140

E.P.A. Reg. No. 10324-140
E.P.A. Est. No. 10324-IL-1



NET CONTENTS

BATCH NO

b/p

This product contains no phosphorous.

This product maximizes labor results by effectively controlling odors.

When used as directed, this product will deodorize surfaces 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.

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

This product is a concentrated disinfectant that is effective against a broad spectrum of bacteria and is virucidal* when used as directed.

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

This product will not leave a grit or soap scum.

This product is a versatile disinfectant and virucide for use in Veterinarian, Animal Care and Agricultural applications.

This product inhibits odor causing bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. (Note: Statement not for use in California.)

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

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

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

Maquat MQ2525M-CPV for use in:

- 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.
- Animal holding areas, waiting rooms, examination rooms, x ray, operating rooms.

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

- Non-food contact glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic, chrome and vinyl.
- Enameled surfaces, painted woodwork, Formica®, vinyl and plastic upholstery.
- Tables, chairs, desks, lifts, washable walls, cabinets, doorknobs and garbage cans.
- Examination tables, X ray tables, washing areas, animal grooming areas.
- Picnic tables and outdoor furniture.
- Telephones and telephone booths.
- Kennels, kennel runs, cages, floors, conductive flooring.

DIRECTIONS FOR USE

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

For use on hard, non-porous surfaces in animal care facilities such as floors, walls, cabinets, chairs, tables, cages, feeding and watering equipment, furniture, operating tables, metal surfaces, stainless steel, glazed porcelain, painted or sealed woodwork, ceramic tile and plastic.

Apply this product with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. 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. Do not breathe spray.

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

DISINFECTION

Add 3 ounces of this product to one gallon of water or equivalent dilution (750 ppm active quat). Treated surfaces must remain wet for 10 minutes. At this use level, this product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum against:

<i>Corynebacterium ammoniagenes</i> (ATCC 6872)	<i>Salmonella schottmuelleri</i> (ATCC 8759)
<i>Brodetella bronchiseptica</i> (ATCC 10580)	<i>Salmonella typhi</i> (ATCC 6539)
<i>Enterobacteriaceae w/beta lactamase resistance</i> (ATCC BAA-72)	
<i>Enterobacter aerogenes</i> (ATCC 13048)	<i>Serratia marcescens</i> (ATCC 14756)
<i>Enterococcus faecalis</i> (ATCC 29212)	<i>Shigella dysenteriae</i> (ATCC 11835)
<i>Enterococcus faecalis</i> Vancomycin Resistant (ATCC 51299)	
<i>Escherichia coli</i> (ATCC 11229)	<i>Staphylococcus aureus</i> (ATCC 6538)
<i>Klebsiella pneumoniae</i> (ATCC 4352)	<i>Staphylococcus aureus-MRSA</i> (ATCC 33592)
<i>Listeria monocytogenes</i> (ATCC 19117)	<i>Staphylococcus aureus-VISA</i> (HIP 5836)
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	<i>Streptococcus salivarius</i> (ATCC 7073)
<i>Salmonella choleraesuis</i> (ATCC 10708)	

Virucidal Performance: At 3 ounces per one gallon use level or equivalent dilution (750 ppm active quat), this product was evaluated in the presence of 5% serum with a 10 minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Canine Adenovirus	Herpes simplex virus Type 1
Canine Coronavirus	Herpes simplex virus Type 2
Canine Distemper Virus	Human Coronavirus
Canine Parainfluenza Virus	Infectious Canine Hepatitis Virus
Feline Calicivirus	Influenza A
Feline Infectious Peritonitis	Murine Parainfluenza virus type 1
Feline leukemia	Newcastle
Feline Panleukopenia	Pseudorabies
Feline Picornavirus	Rabies
Feline Rhinotracheitis	Vaccinia
Hantavirus	

Fungicidal Performance: At 3 ounces per one gallon use level or equivalent dilution (750 ppm active quat), this product was evaluated in the presence of 5% serum with a 10 minute contact time and found to be effective against the following fungi on hard, non-porous surfaces:

<i>Aspergillus niger</i> (ATCC 6275)	<i>Trichophyton mentagrophytes</i> (ATCC 9533)
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Disinfection and Virucidal Dilution Chart

Ounces of Product	Amount of Water
¾ ounce	1 quart
1.5 ounces	½ Gallon
3.0 ounces	1 gallon
7½ ounces	2 ½ gallons
15.0 ounces	5 gallons
30.0 ounces	10 gallons

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Effectiveness against Canine Parvovirus (CPV), Minute Virus of Mice (Parvovirus) and Porcine Parvovirus: At 9 ounces per gallon of water or equivalent dilution this product was evaluated in the presence of 5% serum with a 10 minute contact time and found to be effective against Canine Parvo Virus (CPV), Minute virus of Mice (Parvovirus) and Porcine Parvovirus on hard, non-porous environmental surfaces.

At 3 ounces per gallon of water in the presence of 5% blood serum and 400 ppm of hardness for a 2 minute contact time, this product was found to be effective against HIV-1 (AIDS Virus). (10324-80)

OR

At 3 ounces per gallon (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO₃) and 5% blood serum, this product was proven to be effective against HIV-1 (AIDS Virus). Treated surfaces must remain wet for 2 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled. (10324-80)

At 3 ounces per gallon of water in the presence of 400 ppm of hardness for a 10 minutes contact time, this product was found to be effective against Hantavirus. (10324-80)

OR

At 3 ounces per gallon (or equivalent use dilution) in the presence of 400 ppm hard water (CaCO₃) and 5% organic load, this product was proven to be effective against Hantavirus with a contact time of 10 minutes. (10324-80)

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

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

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

Cleaning Procedure: Blood and other body fluids (containing HIV-1) 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. (10324-80)

Contact Time: Leave surface wet for 2 minutes for HIV-1. This 2 minute contact time will not control other common type of viruses and bacteria listed on this label. (10324-80)

OR

For HIV, leave surfaces wet for two minutes with 3 ounces per gallon (or equivalent use dilution) use solution in the presence of 400 ppm hard water (CaCO₃ and 5% blood serum). This contact time will not control other common types of viruses and bacteria. (10324-80)

Special Instructions for Cleaning and Disinfecting areas which may be infested with Hantavirus (10324-80)

Infection with Hantavirus occurs by inhalation of infectious materials. CDC recommends that persons involved with cleanup 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 or a powered air-purifying respirator (PAPR) with HEPA filter.

All potential infective waster 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 waster.

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:

- a. Air out the building for at least 30 minutes by opening windows and doors.
- b. Leave the building while it is airing out.
- c. Do not vacuum, sweep or dust. This may spread the virus through the air.
- d. Thoroughly wet the contaminated areas with the product and allow to stand undisturbed for 10 minutes.
- e. Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
- f. Treat the surface again following the label directions and allow to stand undisturbed for 10 minutes.

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

General Deodorization: To deodorize, add 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Excess material should be wiped up or allowed to air dry.

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

Fungicidal Activity: At 3 ounces per gallon use-level, (or equivalent use dilution) (750 ppm active quat) this product is effective in locker rooms, dressing rooms, shower and bath areas and exercise facilities against *Trichophyton mentagrophytes* (athlete's foot fungus) (a cause of Ringworm on inanimate hard, non-porous surfaces in the presence of 5% blood serum and 400 ppm water hardness as CaCO₃. Treated surface must remain wet for 10 minutes. Allow to air dry. (10324-80)

Mold and Mildew Control Directions: Add 3 and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear. (10324-80)

NON-ACID TOILET BOWL DISINFECTANT DIRECTIONS

Remove gross filth prior to disinfection.

From Concentrate: Add 3 ounces to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow to stand for 10 minutes and flush.

From Use-solution: Empty toilet bowl and apply a 3 ounce per gallon or equivalent dilution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer; brush or swab thoroughly and allow to stand for 10 minutes and flush. For spray application use a coarse spray device.

To Disinfect Food-Processing and Tobacco Premises: (floors, walls and storage areas) Add 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications use a coarse spray device. Allow surfaces to remain wet for 10 minutes, then remove excess liquid. Before using this product, food products and packaging materials must be removed from area or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To Disinfect Food Service Establishment Food Contact Surfaces: (countertops, exterior surfaces of appliances, tables) Add 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). 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 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 surfaces to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water.

For Use on Non-food Contact Surfaces as a General Disinfectant in the Brewery Industry: Use 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Follow the general disinfectant directions above.

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, cages, 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. Use 3 ounces of this product per gallon of water (9 ounces for Canine Parvo Virus, Minute virus of Mice (Parvovirus) and Porcine Parvovirus) (or equivalent use dilution). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, leashes, chains 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 application, ventilate buildings, pens, 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: Use 3 ounces of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard, non-porous surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more, rinse with potable water before reuse and allow to air dry.

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray device. Use 3 ounces of this product per gallon of water. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS:

Remove or cover all food and packaging materials. Remove all gross soils. Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants with a solution of 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Scrub to loosen all soils. Equipment and utensils must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect offal rooms, exterior walls and loading platforms of dressing plants.

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, 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 3 ounces of this product per gallon of water for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

Veterinary Clinics/Animal Life Science Laboratory/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 3 ounces per gallon of water (9 ounces for Canine Parvo Virus, Minute virus of Mice (Parvovirus) and Porcine Parvovirus) (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 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, automatic feeders, waterers and other equipment that dispenses food or water with soap or detergent, and rinse with potable water before reuse.

(Alternative language for bag in the box dispensing equipment.)

DIRECTIONS FOR 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.

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