

61178-1

3/18/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 18 2009

Vickie Forster  
Agent for Microgen, Inc  
Forster & Associates Consulting, LLC  
230 Steeplechase Circle  
Wilmington, DE 19808

Subject: Application for Amendment  
Product Name: D-125  
EPA Reg. Number: 61178-1  
Application Date: October 27, 2008  
EPA Receipt Date: October 29, 2008

Dear Ms. Forster,

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

- Addition of directions for use and marketing claims
- Addition of efficacy claims
- Submission of alternate formula

**Data**

The submitted Confidential Statement of Formula, #19 is acceptable for food contact use and will be made part of the record for this file.

The submitted efficacy study, MRID 475290-01 supports this use of this product against Avian Influenza A (H5N1) at 300 ppm hard water in 5% serum at 1:64. As requested at the time of the last stamped label for this product, you must list the ATCC numbers for each of the tested organisms either on the data matrix or the master label (as optional text) next to each organism.

**Data Matrix Correction**

The following MRID has been deleted from the data matrix in our files as it is not an acceptable study: 47529002. Make the same correction to the matrix in your files.

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**Conditions**

Revise the label as follows:

- 1) Revise the first page of your label by deleting the reference to "carpet sanitizer". The term, sanitizer, is an established public health claim that cannot be associated with a nonpublic health organisms. The use of the term in conjunction with nonpublic health organisms is construed as false and misleading statement. In addition, delete the claim "redefining clean" as this implies heightened efficacy.
- 2) Delete the following statement from page one: "Contains DISNFX-125 Brand Hospital Disinfection Formula Exclusively from MICROGEN, INC." This statement is misleading. This product is identified as D-125. Your label should not refer to any other product. You may submit a notification for an alternate brand name if this is your intention.
- 3) Delete the "Keep Out of Reach of Children" statement from the Precautionary Statements on page two. As per the Label Review Manual, this statement is already listed in the appropriate location with the signal word on the first page.
- 4) Revise the Precautionary Statements to include the following expanded "Wash thoroughly..." statement as per the Label Review Manual. Revise to include: "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet."
- 5) The flash point of your product warrants a Physical or Chemical Hazards section as per 40 CFR 156.78. Place this section immediately below the Environmental Hazards section of the label. Place the heading: **Physical or Chemical Hazards** followed by the statement: "**Combustible**. Do not use or store near heat or open flame."
- 6) Revise the Container Disposal language on page three by deleting the statement: "Pour rinsate into application equipment of a mix tank or store rinsate for later use or disposal." Revise to state: "Discard rinsate."
- 7) Delete the reference on page four, fifteenth statement to use this product as a "sanitizer" for Veterinarian, Veterinary Practice, etc. as your label does not include directions for this use.
- 8) Delete the fourth, seventeenth, and nineteenth statements from page five. These statements refer to this product as a neutral pH product. This is inaccurate as this product has not been formulated with a neutral pH.
- 9) Delete the reference in the eighth statement on page five to treatment of areas due to "septic tank or sewage backup, smoke" as your label does not include appropriate directions for these uses.

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Your label (page twenty five) includes the following uses: "Water Damage Restoration," "Sewer Backup & River Flooding," "Carpets, Carpet Cushions and other Porous Materials Such as Floors, Drywall, Trim and Frame Lumber, Tackless Strip and Paneling," and "Smoke Damage Restoration." Treatment of these materials/surfaces is remediation. Specific directions are required for remediation use to protect the user from exposure to mold and other contaminants as well as to protect other areas of the structure from contamination. Your label does not include appropriate remediation directions.

Thus the sections on page twenty five beginning: "Effective against odor causing bacteria and fungi..." "Sewer backup & river flooding..." "Carpets, Carpet Cushions and other Porous Materials Such as Floors, Drywall, Trim and Frame Lumber, Tackless Strip and Paneling," and "Smoke Damage Restoration" must be deleted from your label.

Should you decide to add such uses at a later date, use the following guidance to write this set of directions for use.

<p>Carpet Restoration Treatment (due to damage from flood, fire, smoke other water damage)</p>	<p>This use only for commercial, industrial and institutional applicators: thus products with this use are only to be marketed in 5 gallon or larger containers with statement: "For Professional Use Only" with appropriate PPE statements listed on label including the use of gloves.</p> <p>Refer to <a href="http://www.epa.gov/mold/mold_remediation.html">http://www.epa.gov/mold/mold_remediation.html</a>, Table 1 &amp; 2 for Remediation Directions for Use.</p>
<p>Mold Remediation/Prevention (Water/Smoke restoration/Sewer backup/river flood cleanup/clean water source)</p>	<p><b>For Professional Use Only:</b> For use by Mold Remediation Workers, Mold Remediation Contractors, Certified Mold Remediators, Certified Mold Contractors, Certified Mold Remediation Contractors, Applied Microbial Remediation Technicians, Certified Mold Professional, Certified Restorers, and Mold Remediation Companies.</p> <p>Refer to <a href="http://www.epa.gov/mold/mold_remediation.html">http://www.epa.gov/mold/mold_remediation.html</a>, Table 1 &amp; 2 for Remediation Directions for Use.</p>

10) You may not make claims that your product will prevent disease. Delete the reference to germs and harmful bacteria on page six, fourteenth statement. Revise to include the following: "...are common *bacteria* found where food is prepared and stored. This product kills these *bacteria* and helps prevent the spread of food borne..."

11) Revise the eighteenth statement on page six by deleting the term sanitizer. You may not refer to your product as an institutional sanitizer as an institutional use requires the product to be effective as a disinfectant against pseudomonas which is not supported by a sanitizer claim.

12) Delete the nineteenth and twenty second claims on page six as the contact time is not in agreement with the submitted data for this product.

13) Delete the twentieth claim on page six: "Kills germs while it cleans." It is not acceptable for these types of pesticidal and non-pesticidal claims to be mixed.

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14) Revise the last two statements on page six by correcting to indicate that these are non-food contact sanitizer claims as follows: "Effective *non-food contact* sanitizer in the presence of 5% serum contamination." and "Effective *non-food contact* sanitizer in the presence of soils."

15) Delete the reference on page eight, third statement to use of this product in tattoo parlors. Tattoo parlors include items such as needles and other instruments which are used to pierce the skin. Such instruments may not be disinfected or sanitized with this product.

At a future date you may revise your label to include specific directions within the Directions for Use section of the label for tattoo parlors. These directions must clearly indicate that needles and other such instruments may not be treated with this product.

16) Revise the twelfth statement on page nine by deleting the reference to sanitize and disinfectant from the directions for treatment of personal protective safety equipment as your directions for use only include control of microorganisms.

17) Correct the sixteenth statement on page nine by changing the ppm water hardness to read **300** so that this statement will be in agreement with the submitted data.

18) Delete the Bottle Use Dilution, Option 2 on page eleven. You have not provided information in this packaging system as requested thus the Agency is not able to confirm that these directions are appropriate.

19) Revise the "Preparation of Use Solution" on page twelve. Delete the phrase "OR mix a 4 ounce packet with 2 gallons of water". If you intend to market this product in small packets such as described, the labeling for such packets must be submitted for review as part of the master label.

20) Move the following statement into the "Preparation of Use Solution" on page twelve: "Remove gross filth or heavy soil. For heavily soiled areas, a pre-cleaning step is required."

21) Correct the section on page twelve beginning: "This product is a Hospital Use Disinfectant..." by including the contact time of 10 minutes.

22) As per the last stamped label, on page twelve correct *Salmonella choleraesuis* to read: *Salmonella enterica*.

23) Delete the phrase "*recommended and required*" from the "Disinfection/Fungicidal/ \*Virucidal Directions" on page thirteen to reflect PR Notice 2000-5. Revise this section to include with: "...thoroughly wetting surfaces with a cloth, mop..."

24) Delete the statements: "Before using this product, food products and packaging materials...all surfaces in the area must be thoroughly rinsed with potable water." from the "Disinfection/Fungicidal/ \*Virucidal Directions" on page thirteen. This statement is only appropriate when referring to the use of this product as a disinfectant when used in food processing facilities and other similar locations.

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- 25) On page fourteen under "Personal Protection" of HIV directions revise the statement by deleting "or" and stating "and" such that the statement reads, "when handling items....and eye covering."
- 26) Revise the Cleaning Procedures on page fourteen by deleting "containing HIV" as this set of directions includes HCV and HBV as well.
- 27) Revise the Disposal of Infectious Materials section on page fourteen by including: "...Blood and other body fluids, *cleaning materials and clothing* must be..."
- 28) Revise page fifteen by indicating a contact time of 10 minutes "For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment".
- 29) Revise the food contact sanitization directions in the first section on page seventeen by revising the last statement to include the contact time: "This product is an effective sanitizer when diluted in tap water *with a contact time of 1 minute.*"
- 30) Revise the "Sanitization-Food Contact Surfaces (glassware, utensils, cookware and dishware)" second section on page seventeen to include the test organisms: *Escherichia coli* and *Staphylococcus aureus*. In addition, revise step #1 to read as follows: "Remove gross food particles and soil from utensils, glassware, cookware and dishware by a preflush, or pre-scrape and when necessary, pre-soak."
- 31) Revise step #6 in the "Sanitization-Food Contact Surfaces Immobile surfaces (food processing equipment, counter tops, tables, hard non-porous surfaces of picnic tables, appliances, stovetops and food work areas)" section on page seventeen to be in agreement with PR Notice 2000-5 as follows: "Fresh sanitizing solution *must* be prepared daily..."
- 32) Revise the directions on page eighteen "To Disinfect Food Service Establishment Food Contact Surfaces" by placing: "Before using this product, food products and packaging materials must be removed from the area or carefully protected." as the first statement in this section.
- 33) Revise the direction for fogging on page eighteen to include mandatory language as per PR Notice 2000-5 as follows: "...Under no circumstances *must* a room or building..." Make this same correction to the fogging directions on pages twenty one and twenty six.
- 34) Any ADBAC containing product supporting fogging directions for animal housing facilities and food processing plants must be revised to comply with the mitigation measures addressed in the ADBAC RED. Therefore, revise the "Directions for Fogging" on page eighteen, the "Sanitizing Incubators and Hatchers Using Fogging Devices" on page twenty one and "Food Processing Plants Using Fogging Devices" on page twenty six by adding the statement, "*wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus.*" Also, revise the second statement under "Note" to read "Under no circumstances must a room or

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building be entered by anyone *within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility.*"

35) Revise the "Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment..." directions on page nineteen by correcting to read: "...chutes and other *surfaces of facilities and fixtures...*"

36) Revise the dressing plant directions on page nineteen by placing the following statements as the first two statements in this section: "Cover or remove all food and packaging materials. Remove all gross soils." In addition, delete the word "recommended" as per PR Notice 2000-5.

37) Revise statement #5 of the Equine, Dairy and Hog Farms directions on page twenty to read as follows: "Saturate all surfaces with the *disinfecting solution at 2 ounces per gallon of water* for a period of 10 minutes."

38) Delete the Dairy Cow Application Directions on page twenty. This is an FDA use and as such this use is not acceptable on an EPA label.

39) Revise statement #5 of the For Treatment of Animal Housing directions on page twenty to read as follows: "Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the *disinfecting solution at 2 ounces per gallon of water* (or equivalent use dilution) for a period of 10 minutes..." Make the same corrections in the Terrarium and Small Animal Cage and Cage Furniture Disinfection section. Also add the following statements specifically to the Terrarium section: "*Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately.*"

40) Add the following statement to the "Veterinary Clinics/Animal Life Science Laboratory..." section on page twenty one immediately after the contact time: "*Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, scrappers, used in removing litter and manure.*"

41) Revise the "Sanitizing Incubators and Hatchers Using Fogging Devices" on page twenty one by placing the statement: "Thoroughly scrub all treated feed racks, mangers...with soap or detergent, and rinse with potable water before reuse." to immediately follow the statement which begins: "Do not house livestock or employ..." Also add the statements: "*Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs.*" to this section.

42) Revise the "Sanitizing Non-Food Contact Surface Directions" on page twenty three by deleting the following organisms. The Agency does not have confirmation to indicate that these organisms were tested for non-food contact sanitization. Delete: *Escherichia coli*, *Escherichia coli O157:H7*, *Enterococcus faecalis*, and *Salmonella choleraesuis*. Also revise this set of directions to include the correct contact time of 1 minute. There are three instances in which this correction must occur.

CONCURRENCES

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SURNAME								
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

7/38

43) Delete the "as recommended and required" statement from the "To Sanitize (and Deodorize)" section on page twenty three. This will bring this section into agreement with PR Notice 2000-5.

44) Correct the Shoe Bath Sanitizer and Shoe Foam Directions on page twenty three by making the same three corrections to both sections. Change both instance of "should" to "must", correct both sections to include the 1 minute contact time, and revise the first statement of each section to read: "To prevent *cross contamination from area to area* in animal areas..."

45) Correct the Entryway Sanitizer Systems directions on page twenty four by changing "should" to "must", and deleting the phrase "of harmful organisms".

46) Correct the Salon/Barber Instruments and Tools Sanitizer Directions by correcting the contact time to 1 minute and revising the include: "Stainless steel shears and *metal* instruments..."

47) Both the Ultrasonic Bath and Whirlpool Directions on page twenty four indicate that the surfaces are to be disinfected. As such, revise both headings by replacing "Sanitizer" with "Disinfection" and correct the contact time in each section to indicate 10 minutes.

48) Revise the Special Instructions for Cleaning Carpet Against Odor Causing Bacteria on page twenty five to begin: "This product may be used in *industrial, institutional, commercial and residential* areas such as..." Make this same correction to the carpet treatment directions on page twenty six.

49) Revise the section headed "Carpet Sanitizer/Deodorizer Against Odor Causing Bacteria for Home, Institutional, Industrial and Hospitals Use" on page twenty six by deleting the term "Sanitizer." Also, revise the first statement in this section by deleting the term "sanitizer." The term, sanitizer, is an established public health claim that can not be associated with a nonpublic health organisms thus is construed as a false and misleading statement for this use.

50) Add the following statement to provide clarity as the last statement in the "Food Processing Plants Using Fogging Devices" directions on page twenty six: "...reuse with potable water *then sanitized with an EPA approved food contact sanitizer.*"

51) Replace the statement on page twenty seven beginning: "This product is effective against... unless noted below." with the following statement: "**Disinfection Performance:** *At 2 ounces of this product to one gallon of water use level, this product is bactericidal and fungicidal on hard inanimate surfaces modified in the presence of 5% organic serum with a 10 minute contact time against.*"

52) On page one you have indicated an unqualified "Virucide\*". Thus all instances where viruses are listed on the label, include an \*. These virus claims occur on pages nine, ten, twelve, fourteen and thirty.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

8/38

53) Revise the Virucidal Performance claim at the beginning of page thirty to include: "...with a 10 minute contact time *unless otherwise noted below* and found to be..."

**General Comments**

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

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

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

Sincerely,



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

Enclosure: Stamped Label, DER D358760, D358780  
7510P:T.Lantz:3/9/09:61178-1c

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9/38

**Microgen, Inc.**

"Redefining Clean"

33 Clinton Road, Suite 102 West Caldwell, NJ 07006 973-575-9025

EPA Reg. No. 61178-1

**D-125**

Net Contents:

Batch No:

## CENTER PANEL

### D-125

BROAD SPECTRUM DISINFECTANT, HOSPITAL DISINFECTANT, ANTIMICROBIAL, BROAD SPECTRUM CLEANER & DISINFECTANT, GERMICIDAL, GERMICIDE, GERMICIDAL CLEANER, CLEANS AS IT DISINFECTS, ANTIBACTERIAL, BACTERICIDE, PSEUDOMONACIDAL, HIV, & HBV & HCV VIRUCIDE\*, KILLS COMMON HOUSEHOLD GERMS, HOSPITAL VIRUCIDAL\* DISINFECTANT, CONCENTRATED DISINFECTANT CLEANER, CONCENTRATED FORMULA, ~~REDEFINING CLEAN~~, ~~CARPET SANITIZER~~ AGAINST ODOR CAUSING BACTERIA, CLAIMS AGAINST 140+ ORGANISMS

CLEANER, DISINFECTANT, SANITIZER, DETERGENT, FUNGICIDE, DEODORIZER, VIRUCIDE\*, MILDEWSTAT

**ACTIVE INGREDIENTS:**

Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride ..... 2.37%  
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride ..... 2.37%

INERT INGREDIENTS..... 95.26%

TOTAL..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

## DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS: Varies

Microgen Inc.  
33 Clinton Road  
Suite 102  
West Caldwell, NJ  
07006  
EPA Reg. No. 61178-1  
EPA Est. No. Varies

~~Contains DISINF-X-125 Brand Hospital Disinfectant Formula Exclusively from MICROGEN, INC.~~

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ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 18 2009

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 61178-1

## LEFT PANEL- NUMBER 1

### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. ~~KEEP OUT OF REACH OF CHILDREN~~. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Wear protective eyewear (goggles, face shield or safety glasses). Wear protective clothing and rubber gloves. Avoid contamination of food. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### STATEMENT OF PRACTICAL TREATMENT — FIRST AID

**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.

**Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional medical advice, call the following emergency phone number: 000-000-0000.**

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

**If container is 5 gallons or more, the following statement must be used:**

### ENVIRONMENTAL HAZARDS

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.

## LEFT PANEL- NUMBER 2

### STORAGE and DISPOSAL

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

### STORAGE

Do not store on side. Avoid creasing or impacting of side walls. Store securely in closed original container. Avoid storage at temperature extremes or in sunlight. Avoid shipping or storing below freezing. If product freezes, thaw at room temperature and shake gently to remix components. Use locked storage in an area that will prevent cross-contamination of other pesticides, fertilizer, food and feed. Store in locked area inaccessible to children.

### 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 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

**Triple rinse container (or equivalent) promptly after emptying.** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. ~~Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal.~~ Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.**

### BATCH CODE:

# RIGHT PANEL-NUMBER 1

This product contains no phosphorous.

This product is a phosphate free, pH neutral 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 (improves) labor results by effectively controlling odors.

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

This product can be used to disinfect, clean and deodorize terrarium and small animal cages, hot rock, substrate and cage furniture (plastic terrarium ornaments, driftwood, heat caves and water dishes. *(This use not allowed in California)*)

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

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

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

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 concentrate.

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

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

This product will not leave a grit or soap scum.

Will not cause swelling of transducer membrane or harm compressor plates.

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

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

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

This product is recommended for use as a disinfectant on hard, non-porous surfaces (at 708 ppm active).

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

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

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

## RIGHT PANEL-NUMBER 2

Use this product to sanitize and disinfect non-porous salon/barber tools and instruments such as combs, brushes, scissors, clippers, trimmers, razors, blades, tweezers and manicure instruments.

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

This product may be applied through low-pressure sprayers, and fogging (wet misting) systems.

~~This product is a no-rinse neutral pH 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.

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

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

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

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

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

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

This product provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.

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 an effective one step sanitizer/cleaner for use on non-food contact surfaces.

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

~~This product is formulated to a neutral pH, yet provides effective cleaning strength that will not dull high gloss floor finishes with repeated use.~~

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

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

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.)

## RIGHT PANEL-NUMBER 3

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 and 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.)

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

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.

One-step cleaner.

Cleans everyday kitchen messes.

Cleans and shines.

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

Safe for most surfaces. For a cleaner, fresher household. Cleans without bleaching. 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 on non-food contact surfaces. Cuts through tough grease and grime.

*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 kitchen surfaces listed on this label.

Disinfects (and Sanitizes) kitchen surfaces (bathroom surfaces and floors). Sanitizes kitchen surfaces (bathroom surfaces and floors). Kills germs. Kills household bacteria.

Antibacterial.

Kills Athlete's Foot fungus in the bathroom.

Hospital use Disinfectant. Institutional Disinfectant (Sanitizer).

Kills 99.9% of bacteria (germs) like *Salmonella choleraesuis* (*Salmonella*), *Escherichia coli* (*E. coli*) and *Klebsiella pneumoniae* (*Klebsiella*) on kitchen surfaces (and bathroom surfaces) and floors in 3 minutes when used as a sanitizer.

~~Kills germs while it cleans.~~

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

Eliminates (kills) 99.9% of bacteria (germs) (such as) *Salmonella choleraesuis* (*Salmonella*) and *Escherichia coli* (*E. coli*) commonly found on kitchen (and bathroom) surfaces (in less than 5 minutes) when used as a sanitizer.

Effective sanitizer in the presence of 5% serum contamination.

Effective sanitizer in the presence of soils.

## RIGHT PANEL-NUMBER 4

### DIRECTIONS FOR USE

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

To be used in hospitals in the following areas as a disinfectant: operating rooms, patient care rooms & facilities, recovery, anesthesia, ER, radiology, X-ray cat labs, newborn nurseries, orthopedics, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms, nursing homes, doctor's offices & labs, dentists offices & labs (dental operatories).

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.

D-125 is 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 (rooms), anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms.
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, 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.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Homes (households).

## RIGHT PANEL-NUMBER 5

- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums.
- 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, ~~lotion parlors~~.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Humidifier water tanks. *(Not for use in California)*
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants.
- Processing facilities for Fish, Wine, Milk, Citrus, Fruits, Vegetable, Ice Cream, and Potatoes, and beverage plants.
- Tobacco plant premise.
- Veterinary clinics, animal life science laboratories, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, airline terminals, airports, shipping terminals, public transportation.
- Commercial florist and flower shops.
- Basements, cellars, bedrooms, attics, living rooms and porches.
- This product may be used on washable hard non-porous surfaces such as:
- Countertops (Counters), non-food contact surfaces of Slurpy<sup>™</sup> machines, (stoves) stovetops, sinks (bathroom, kitchen), tub surfaces, and exterior surfaces of appliances, refrigerators and ice machines.
- 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.
- Enameled surfaces, painted (finished) woodwork, Formica<sup>®</sup>, vinyl and plastic upholstery.
- Examination tables, X ray tables, washing areas, animal grooming areas.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- 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 such as animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.



## RIGHT PANEL-NUMBER 6

- Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wooden Picnic tables and outdoor furniture except cushions and wood frames. (Note: Only one statement will be used on label.)
- Telephones and telephone booths.
- Highchairs, baby cribs, diaper changing stations, infant bassinets/cribs/warmers/incubators/care equipment, folding tables.
- Bed railings, bedpans, cervical collars, CPR training mannequins, curing lights, neck braces, oxygen hoods, slit lamps, spine backboards, stretchers and unit stools.
- External lenses vision correction (not for use on contact lenses), light lens covers, optical instruments/implements.
- Drinking fountains.
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- 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.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.
- Use this product to clean, ~~sanitize and disinfectant~~ non-porous personal protective safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, 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.)
- Use this product to clean, sanitize and disinfectant non-porous ambulance equipment and surfaces by rinsing 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 ambulance equipment and surfaces that would necessitate replacement.)
- 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
- This product meets AOAC Use – Dilution Test Standards for hospital disinfectants at ~~200~~ ppm water hardness.
- This product meets AOAC efficacy standards for hard surface, non-food contact sanitizers.
- This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Hepatitis B Virus.

## RIGHT PANEL-NUMBER 7

- This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus).
  - OR
- This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Hepatitis C Virus (HCV). (*Not for use in California*)
  - OR
- At 2 ounce per gallon (or equivalent use dilution of 1:64) in the presence of 5% organic load this product was proven to be effective against (*Duck*) Hepatitis B Virus (HBV) and Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus) with a contact time of 10 minutes.
- This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Human and *Canine Coronavirus*.
- This product is effective against the control of small flies on floors, walls, drains, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas.
- Efficacy tests have demonstrated that this product is an effective bactericide, virucide and fungicide in the presence of organic soil (5% blood serum).
- For larger areas such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfection.

## RIGHT PANEL-NUMBER 8

### BOTTLE USE DILUTION:

**OPTION 1:** With both caps closed and the front label facing you, tilt the bottle counter-clockwise so the concentrate fills the measuring chamber. Tilt the bottle clockwise to allow any excess concentrate to return to the bottle leaving the desired amount in the measuring chamber. (The angular pour-back lines on the right side of the measuring scale may be used as a guide when tilting bottle clockwise to adjust to the desired amount.) Open the left (slanted) cap to pour concentrate. **Use at a dilution of 1:64 (2 ounces per gallon of water or 16 ml per liter).**

~~**OPTION 2:** Remove outer cap. While holding bottle by the neck, twist off inner cap and discard. Replace outer cap to seal. Gently squeeze the lower chamber until the upper reservoir is filled to the desired level.~~

**Use at a dilution of 1:64 (2 ounces per gallon of water or 16 ml per liter).**

### **OPTION 3: PROPORTIONING AND DISPENSING SYSTEM**

Only For Use with the DisChem Proportioning and Dispensing System.

Remove the seal and cap from the pink spout. Screw the black plunger valve from the DisChem System's chemical pickup tube onto the pink spout and tighten by turning clockwise. Ensure that the black spout is screwed on securely and tightly. Once the product (concentrate) is connected to the DisChem system, ensure the product (concentrate) is primed in the unit by verifying that the product (concentrate) within the pickup tube fills the length of the tube from the product (concentrate) bag up to the DisChem system. Press the activation button on the DisChem system to dispense the desired amount of mixed product (concentrate) into an appropriate container. **DO NOT REMOVE BAG FROM CARTON UNTIL EMPTY.**

***(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.

## RIGHT PANEL-NUMBER 9

### BACTERICIDAL STABILITY OF USE-DILUTION:

Tests confirm that this product, when diluted in 400 ppm hard water and in the presence of 5% soil load, remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enterica* for up to 64 days when stored in a sealed container at room temperature.

If the use-dilution product becomes visibly dirty or contaminated, the use-dilution must be discarded and a fresh product prepared. Always use clean, properly labeled dry containers when diluting the product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails. Use-dilution product in open containers must be prepared daily or more often if the solution becomes visibly dirty or diluted or contaminated.

### DISINFECTION:

#### PREPARATION OF USE SOLUTION:

For water hardness up to 300 ppm add 2 ounces per gallon (16 milliliters per liter) of water (1:64) to disinfect hard, non porous surfaces [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] ~~OR mix 4 ounces per gallon with 2 gallons of water.~~ Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or other mechanical sprayer devices. Treated surfaces must remain wet for 10 minutes. Let air dry. Prepare a fresh solution for each use. D-125 is effective in hard water up to 300 ppm hardness

This product, in the presence of a 98 % organic soil load, diluted 1:64 (2 ounces per gallon) in 791 ppm Hard Water, demonstrated efficacy within 10 minutes against the following organisms: *Staphylococcus aureus*, *Salmonella* ~~*choleraesuis*~~

This product is a Hospital Use Disinfectant at 2 ounces per gallon (16 milliliters per liter), (1:64 dilution), modified in the presence of 300 ppm hard water (calculated as CaCO<sub>3</sub>) and in the presence of organic soil (5% blood serum).

This product is Bactericidal according to the AOAC Use Dilution Test Method, Virucidal according to the virucidal qualification on hard, inanimate surfaces, modified in the presence of 5% organic serum against the microorganisms listed as follows (insert microorganism list here):

Remove gross filth or heavy soil. For heavily soiled areas, a pre-cleaning step is required.

Note that the organisms referenced in the above statement are not associated with blood spills. For blood spills, the surface must be thoroughly cleaned before applying the disinfectant.

# RIGHT PANEL-NUMBER 10

## Disinfection/Fungicidal/Virucidal Directions:

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

Add 2 ounces per gallon (16 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled.

## Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions Disinfection/Fungicidal and Virucidal Dilution Chart

Ounces of Product	Amount of Water
1/2 ounce	1 quart
1 ounce	1/2 Gallon
2 ounces	1 gallon
5 ounces	2 1/2 gallons
10.0 ounces	5 gallons
20.0 ounces	10 gallons

At 2 ounces per one gallon (or equivalent use dilution of 1:64) in the presence of 300 ppm hard water (CaCO<sub>3</sub>). This product was proven to be effective against Hepatitis B Virus with a contact time of 10 minutes.

OR

At 2 ounces per gallon (or equivalent use dilution of 1:64) in the presence of 5% organic load this product was proven to be effective against Hepatitis B Virus (HBV) and Bovine Viral Diarrhea Virus BVDV (surrogate for human Hepatitis C virus) with a contact time of 10 minutes.

At 2 ounces per one gallon (or equivalent use dilution of 1:64) in the presence of 300 ppm hard water (CaCO<sub>3</sub>) and 5% organic load this product was proven to be effective against Hepatitis C Virus (HCV) with a contact time of 10 minutes. *(Not for use in California)*

**KILLS HIV, HCV & 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), Hepatitis C Virus (HCV) and Hepatitis B Virus.

## RIGHT PANEL-NUMBER 11

### SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HCV & HBV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

#### PERSONAL PROTECTION:

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

**CLEANING PROCEDURE:** Blood and other body fluids ~~containing HIV-1~~ must be thoroughly cleaned from surfaces and objects before application of this product.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids must be autoclaved and disposed of according to Federal, State and local regulations for infectious waste disposal.

**CONTACT TIME:** Leave surfaces wet for 30 seconds for HIV-1 and 10 minutes for HCV and HBV. The contact time for the viruses, fungi and bacteria listed on this label is 10 minutes except for Polio virus Type 1 (Chat strain) which is 30 minutes.

**SANITIZATION - NON-FOOD CONTACT SURFACES:** Remove all gross filth or heavy soil prior to applying sanitizing solution. To sanitize walls, floors and other hard, nonporous surfaces in such areas as schools, institutions, and industries, use a mop, cloth or immerse item in a solution containing 2 ounces per gallon so as to wet all surfaces thoroughly for 1 minute. Drain or air dry. Prepare a fresh solution daily or when solution gets visible dirty.

**Cleansing of Body Surfaces and Body Orifices of Human Remains:** To cleanse away skin secretions and accompanying malodor and to insure the removal of all soil and bloodstains, apply 2 ounces of this product to a gallon of water (708 ppm active) to the surfaces and body openings, natural or artificial. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Allow a 10 minute contact time for optimal results. Prepare a fresh solution for application of each remains.

**FUNGICIDAL:** At 2 ounces per gallon use-level, (or equivalent use dilution) is effective against the pathogenic fungus *Trichophyton mentagrophytes* (athlete's foot fungus - cause of Ringworm) on inanimate surfaces in the presence of 5% organic soil load and 300 ppm water hardness as CaCO<sub>3</sub> in locker rooms, dressing rooms, shower and bath areas and exercise facilities. Contact time ~ 10 minutes.

This product, in the presence of a ~ 100% organic soil load, diluted 1:64 (2 ounces per gallon) in 395 ppm Hard Water, demonstrated efficacy within 10 minutes against the following pathogenic fungus: *Trichophyton mentagrophytes*. Note that the organism referenced in the previous statement is not associated with blood spills. For blood spills, the surface must be thoroughly cleaned before applying this product.

**VIRUCIDAL\*:** When used on inanimate, hard, non-porous, environmental surfaces at 2 ounces per gallon of water for a 10 minute contact time (5% organic soil), except for Poliovirus type 1 (Chat strain): which requires a 30 minute contact time (5% organic soil) and HIV-1 which requires only a 30 second contact time.

This product, in the presence of a 98 % organic soil load, diluted 1:64 (2 ounces per gallon) in 400 ppm Hard Water, demonstrated efficacy within 10 minutes against the following virus: *Human Coronavirus*. Note that the organism referenced in the above statement is not associated with blood spills. For blood spills, the surface must be thoroughly cleaned before applying this product.

## RIGHT PANEL-NUMBER 12

**General Deodorization:** To deodorize, add 2 ounces of this product per gallon of water (or equivalent use dilution of 1:64). Excess material must be wiped up or allowed to air dry.

**For Use on Finished Floors:** To limit gloss reduction, use 2 ounces of this product per gallon of water. Apply with a damp mop or auto scrubber. Allow to air dry.

**For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment:** It is especially important to pre-clean for the product to perform properly. Then, apply a wetting concentration of 6 ounces of this product per gallon of water (or equivalent use dilution).

**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".

**Mold and Mildew Control Directions:** Add 2 ounces per gallon (16 milliliters per liter) of water to control the growth of mold and mildew 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(s).

**To control the growth of mold and mildew on large inflatable, non-porous plastic and rubber structures** (animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**To control the growth of mold and mildew on non-porous athletic equipment** (wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**Disinfection/Fungicide/Virucide for Barber/Salon Tools. Directions:** Immerse pre-cleaned barber/salon tools, such as combs, brushes, razors, clipper and trimmer blades, tweezers manicure/pedicure tools and scissors, in a 2 ounces per gallon solution of the product (or equivalent use dilution). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare 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.

**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 a use solution of 2 ounces per gallon of water (or equivalent use dilution) to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray applications, use a coarse spray device. Do not breathe spray. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

# BACK PANEL-NUMBER 1

## DISINFECT TOILET BOWLS

### NON-ACID TOILET BOWL (AND URINAL) DISINFECTION/CLEANER DIRECTIONS

Remove gross filth prior to disinfection.

**From Concentrate:** Add 2 ounces (16 milliliters per liter) 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 or urinal and apply 2 ounces per gallon (16 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

**For Heavy Duty Use:** 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.

**Cleaning/Deodorizing Directions:** Add 1 to 4 ounces per gallon (8 to 32 milliliters per liter) of water to clean and deodorize windows, mirrors and non-food contact glass surfaces. When using a coarse spray device, spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

**Ultrasonic Bath Disinfectant Directions:** Use this product to disinfect hard (inanimate) non-porous non-critical objects compatible with Ultrasonic cleaning units. Pour fresh solution of 2 ounces per gallon of water (or equivalent use dilution) directly into bath chamber. Preclean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visible dirty or discolored.

**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 and refill with fresh water to just cover the intake valve. Add 10 ounces of this product for each 5 gallons of water (2 ounces per one gallon) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse.

**Disinfection of Hard Non-Porous Surfaces in Whirlpool Units:** After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.



## BACK PANEL-NUMBER 2

### **SANITIZATION - FOOD CONTACT SANITIZER**

To be used in the following areas as a food contact sanitizer: Cruise Lines, Airlines Terminals, Log Cabins, Coffee Shops, Department Stores, Retail Stores, Bagel Stores, Court Houses, Municipal Government Buildings, Colleges, Universities, Community Colleges, Campgrounds, Travel Rest Areas, Recreational Facilities, Sports Arenas, Donut Shops, Boats/Ships, Hotels/Motels, Dormitories, Movie Houses, Pizza Parlors, Lifecare Retirement Communities, Hospices, Book Stores, Convenient Stores, Liquor Stores, Day Care Centers, Acute Care Institutions, Alternate Care Institutions, Home Health Care Institutions, Food Establishments, Shopping Malls, Churches, Picnic Facilities, Homes, Schools, Institutions, Industries, Meat/Poultry/Food Processing Plants, Dairies, Bars, Restaurants and Cafeterias to sanitize hard, nonporous food contact surfaces as listed and identified below. Use a mop, sponge or cloth to apply sanitizing solution or immerse item in sanitizing solution. This product is an effective sanitizer when diluted in tap water.

### **SANITIZATION - FOOD CONTACT SURFACES: (glassware, utensils, cookware and dishware)**

1. Scrape and pre-wash utensil, glassware, cookware, and dishware.
2. Wash with a good detergent.
3. Rinse with potable water.
4. Sanitize in a solution of 4 oz. of product per 7 gallons of water (200 ppm active solution). Immerse all utensils for 1 minute or longer if specified by government sanitary code.
5. Place sanitized utensils on a rack or drain board to air dry. Do not rinse or wipe.

### **SANITIZATION - FOOD CONTACT IMMOBILE SURFACES: (food processing equipment, counter tops, tables, picnic tables, appliances, stovetops and food work areas)**

1. Remove all gross food particles and soil by pre-flush or pre-scrape.
2. Clean all surfaces thoroughly using a good detergent or cleaner. Tilt movable surfaces for proper drainage. Rinse with potable water.
3. Mix 4 oz. of product per 7 gallons of water (200 ppm active solution).
4. Wet surfaces thoroughly for 1 minute.
5. Let surfaces drain and air dry. Do not rinse or wipe.
6. Fresh sanitizing solution ~~should be~~ prepared daily or more often if solution becomes diluted or soiled.

For mechanical operations: The prepared use solution may be used once for sanitizing and re-used for other purposes such as cleaning.

**To Disinfect Food-Processing and Tobacco Premises:** Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, add 2 ounces of this product per gallon of water (or equivalent use dilution). 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 to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

## BACK PANEL-NUMBER 3

**To Disinfect Food Service Establishment Food Contact Surfaces:** For countertops, exterior surfaces of appliances, (and) tables, add 2 ounces of this product per gallon of water (or equivalent use dilution). 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 to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water.

**Disinfecting Potato storage area and equipment:** Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow general disinfecting directions as outlined in that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

**For Use on Non-Food Contact Surfaces as a General Disinfectant in the Brewery Industry:** Use 2 ounces of this product per gallon of water (or equivalent use dilution). Follow the general disinfectant directions above.

**Directions for Fogging:** For use in dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using one quart per 1000 cubic feet of room area with a product solution containing 3 ounces product to 1 gallon of water (or equivalent use dilution) (1,062 ppm). Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer prior to use. Allow food contact surfaces to drain thoroughly before operations are resumed.

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

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**

## BACK PANEL-NUMBER 4

### 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.

**Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Animal Quarters and Kennels Directions:** Prior to use, remove all poultry, other animals and their feed from premises, vehicles (trucks) 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. Use 2 ounces of this product per gallon of water (or equivalent use dilution). Saturate surfaces with the ~~recommended~~ disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

After 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.

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

**HATCHERIES:** For disinfection/fungicide/virucide, use 2 ounces of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray. Use 2 ounces of this product per gallon of water for disinfection/fungicide/virucide. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**DRESSING PLANT AND RENDERING PLANT DISINFECTION – FUNGICIDE – VIRUCIDE USE DIRECTIONS:** Disinfect 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 the ~~recommended~~ use solution, 2 ounces of this product per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

# BACK PANEL-NUMBER 5

## FARM PREMISE DISINFECTION DIRECTIONS

### For use in Equine, Dairy and Hog Farms:

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, stalls, chutes and other facilities and fixtures occupied or 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 the recommended disinfecting or virucidal solution for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrappers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

~~Dairy Cow Application Directions: The udders, flanks and teats of dairy cows can be washed with a solution of 2 ounces of this product per gallon of warm water. Use a fresh towel for each cow. Avoid contamination of wash solution by dirt and soil. Do not dip used towel back into wash solution. When solution becomes visibly dirty, discard and provide fresh solution.~~

### For Treatment of Animal Housing Facilities:

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 (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (2 ounces per gallon of water or equivalent use dilution) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrappers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

**Terrarium and Small Animal Cage and Cage Furniture Disinfection (This use not allowed in California):** Animals frequently defecate on hot rocks and other cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly this product can eliminate these high bacteria/ammonia levels in your cage and on your cage furniture items.

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the recommended disinfecting and virucidal solution (2 ounces per gallon of water or equivalent use dilution) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.
4. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning to terrarium.
5. Do not return animals to the habitat until it is dry and ventilated.
6. Thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.
7. Clean terrarium at least once weekly or more as needed.

**Note:** Substrates for desert terrariums (i.e. gravel) must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists.

## **BACK PANEL-NUMBER 6**

**Veterinary Clinics/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and grooming Establishment/Tack Shops Disinfection Directions:** For cleaning and disinfecting the following hard non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

### **SANITIZING HATCHERY ROOMS USING FOGGING DEVICES**

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 1½ gallons of this product to 2½ gallons water. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

### **SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES**

Mix 24 ounces of this product to 122 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. It is acceptable to fog setters and hatchers with 2 ounces per gallon solution of this product on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed set or dried.

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

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**

## BACK PANEL-NUMBER 7

**COMMERCIAL FLORIST USE DIRECTIONS** (*Not for use in California*): To clean, disinfect and deodorize hard non-porous surfaces in one step, prepare use solution by adding (mixing) 2 ounces per gallon of water (1:64). For heavy-duty use, add (mix) 8 ounces per gallon of water (1:16).

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, brush, sponge or sprayer.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

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.

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

**FOR CONTROL OF SMALL FLIES IN DRAINS:** For control of small flies: *Drosophila* spp. and the *Phoridae* family. Spray or pour solution of 2 ounces per gallon of water (or equivalent use dilution) into drain during time of lowest level of drain use. Add 14 ounces of solution daily to each drain to maintain fly control. Apply around the edge of the drain and coat all sides of inside of drain.

**Waterbed Conditioner:** When used as a waterbed conditioner, controls the growth of odor-causing and slime-forming bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals.

If bed has not been treated properly, drain bed completely. Add 15 gallons of water, mix vigorously, drain bed again. Fill bed with water and follow dosage directions.

**Dosage:** To control growth of odor-causing and slime-forming bacteria, add 7.6 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 15¼ fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

# BACK PANEL-NUMBER 8

## SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS

**Preparation of sanitizer use solution:** Add 2 ounces (of this product) per gallon of water (or equivalent use dilution) to sanitize hard, non-porous environmental surfaces. This product is an effective sanitizer against the following:

~~Escherichia coli~~  
~~Escherichia coli~~  
~~Enterococcus faecalis~~

*Klebsiella pneumoniae*  
*Staphylococcus aureus*  
~~Salmonella enteritidis~~

Apply sanitizer use solution to pre-cleaned, hard, non-porous surfaces with a cloth, mop, sponge, sprayer or by immersion.

For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface and rub with brush, sponge or cloth. Do not breathe spray.

Treated surfaces must remain wet for ~~X~~ minutes, then wipe with sponge, mop or cloth or allow to air dry.

OR

**Sanitizing Non-Food Contact Surface Directions:** Add 2 ounces per gallon (16 milliliters per liter) of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for ~~X~~ minutes. Allow to air dry.

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

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

### LAUNDRY ADDITIVE (RESIDUAL BACTERIOSTATIC AND RESIDUAL SELF SANITIZING ACTIVITY UNDER CONDITIONS OF HIGH RELATIVE HUMIDITY OR WET CONTAMINATION) AGAINST ODOR-CAUSING BACTERIA FOR INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE.

This product sanitizes laundry such as bedspreads, sheets, pillowcases, diapers, towels, and other wet linens by controlling and/or reducing the growth of odor-causing bacteria. It can be used in industrial and institutional areas such as motels, hotel chains, nursing homes and hospitals. This product is used as an addition to the final rinse cycle.

Add 8 fluid ounces of this product per 100 lbs. of dry laundry to the final rinse cycle water (200 ppm). If the product is to be diluted prior to adding it to the final rinse cycle, use 1 ounce per gallon of water and then add to the washwheel in the final rinse cycle.

**SHOE BATH SANITIZER:** 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 solution ~~should~~ be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in 2 ounces of this product per gallon (16 milliliters per liter) of water solution for ~~X~~ minutes prior to entering area. Change the sanitizer solution in the bath at least daily or sooner if solution appears dirty.

**SHOE FOAM DIRECTIONS (Not for use in California):** To prevent ~~tracking harmful organisms into~~ animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 2 to 2 3/4 ounces per gallon of water (or equivalent use dilution) (708 to 1029 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacture of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for ~~X~~ minutes prior to entering area. Foam area ~~should~~ be washed and replaced at least daily or when it appears dirty.

## BACK PANEL-NUMBER 9

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

**ENTRYWAY SANITIZING SYSTEMS:** To prevent cross contamination of ~~harmful organisms~~ from area to area, set the system to deliver (2 oz. per gallon of water) of sanitizing solution. The (spray) (foam) ~~should~~ cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

**SALON/BARBER INSTRUMENTS AND TOOLS SANITIZER DIRECTIONS:** Pre-clean soiled instruments and tools. Completely immerse water safe non-porous instruments and tools in a solution of 2 ounces per gallon (or equivalent use dilution) of water for at least 3 minutes. Rinse thoroughly and dry before use. Fresh solution should be prepared 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.

**Ultrasonic Bath Sanitizer Directions:** Use this product to disinfect hard, (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 2 ounces per gallon of water (or equivalent use dilution) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of ~~3~~ minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visible dirty or discolored.

**Sanitization of Hard, Non-Porous Surfaces in Whirlpool Units:** After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of (or equivalent use dilution) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for ~~3~~ 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.

**Humidifier Directions (Not applicable in CA):** Thoroughly clean water tank and filters. Add 0.4 ounces of this product per gallon of refill water. Not for use in heat or atomizing type humidifiers.

OR

**Humidifier Bacteria/Algae Treatment (Not for use in California):** Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. For every gallon of water in the humidifier tank add 0.4 ounces of this product. When you refill the tank, add 0.4 ounces of this product for every gallon of water added.

Not for use in heat vaporizing or atomizing type humidifiers.



# BACK PANEL-NUMBER 10

## ~~WATER DAMAGE RESTORATION (Not for use in California)~~

### ~~SANITIZER AGAINST ODOR-CAUSING BACTERIA AND FUNGI FOR HOME INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE~~

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

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

~~**Carpets, carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling:** For water damage from a clean water source, extract excess water. Test hidden area for color fastness. Dilute 2 to 4 ounces of the product per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 15 minutes. Follow with a through extraction. Dry rapidly and thoroughly.~~

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

~~**For portable extraction units:** Mix 1 ounce of this product per gallon of water.~~

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

~~**For rotary floor machines:** Mix 2 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.~~

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

## ~~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.~~

## BACK PANEL-NUMBER 11

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

~~(Use as a Sanitizer on Carpets is not acceptable in California)~~

This product ~~(sanitizer)~~ cleans and deodorizes the carpet (by controlling/reducing the growth of odor-causing bacteria). It can be used in industrial and institutional areas such as homes, motels, hotels chains, nursing homes and hospitals. *(Note to reviewer: statement in parenthesis not allowed for use in California.)*

Vacuum carpet thoroughly prior to application. Mix 1 ounce of product per gallon of water. Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 2 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

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

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

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

### **FOOD PROCESSING PLANTS USING FOGGING DEVICES**

For use in dairies, beverage and food processing plants. Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 2 7/8 ounces of product to 1 gallon of water (1,062 ppm). Vacate the area of all personnel for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water.

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

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**

### **MUSHROOM FARM INDUSTRY USE DIRECTIONS**

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

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

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

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

## MICROORGANISM LIST INSERT

This product is effective against the following microorganisms: Contact time is 10 minutes unless noted as below.

### Isolates From AIDS Patients

1. *Aspergillus niger*
2. *Candida albicans*
3. *Cryptococcus neoformans*
4. *Pseudomonas aeruginosa*
5. *Staphylococcus aureus*
6. *Streptococcus pneumoniae*

### Gram Positive Clinical Isolates

7. *Enterococcus faecalis*
8. *Micrococcus luteus*
9. *Staphylococcus aureus*
10. *Staphylococcus aureus (Toxic shock)*
11. *Staphylococcus epidermidis*
12. *Staphylococcus saprophyticus*
13. *Streptococcus haemolyticus*
14. *Streptococcus pyogenes*

### Gram Negative Clinical Isolates

15. *Acinetobacter calcoaceticus var. anitratus*
16. *Acinetobacter calcoaceticus var. Iwoffii*
17. *Bordetella bronchiseptica*
18. *Brevundimonas diminuta*
19. *Burkholderia cepacia*
20. *Enterobacter agglomerans*
21. *Enterobacter cloacae*
22. *Enterobacter gergoviae*
23. *Enterobacter liquefaciens*
24. *Escherichia coli (Urinary)*
25. *Escherichia coli (Wound)*
26. *Flavobacterium meningosepticum*
27. *Hafnia alvei*
28. *Klebsiella oxytoca*
29. *Klebsiella pneumoniae*
30. *Morganella morganii*
31. *Proteus mirabilis*
32. *Proteus vulgaris*
33. *Pseudomonas aeruginosa*
34. *Pseudomonas fluorescens*
35. *Pseudomonas pseudomallei*
36. *Pseudomonas putida*
37. *Pseudomonas stutzeri*
38. *Serratia marcescens*
39. *Sphingomonas paucimobilis*

**Other Bacteria**

- 40. *Actinobacillus pleuropneumoniae*
- 41. *Actinomyces pyogenes*
- 42. *Bacillus cereus*
- 43. *Bacteroides fragilis*
- 44. *Corynebacterium ammoniagenes* (*Brevibacterium ammoniagenes*)
- 45. *Bordetella bronchiseptica*
- 46. *Burkholderia pickettii*
- 47. *Campylobacter jejuni*
- 48. *Chryseomonas luteola*
- 49. *Corynebacterium pseudotuberculosis*
- 50. *Enterobacter aerogenes*
- 51. *Enterococcus faecalis*
- 52. *Enterococcus faecium*
- 53. *Enterococcus hirae*
- 54. *Escherichia coli*
- 55. *Escherichia coli* strain 0157:H7
- 56. *Escherichia vulneris*
- 57. *Haemophilus influenzae*
- 58. *Klebsiella pneumoniae*
- 59. *Listeria monocytogenes*
- 60. *Pasteurella haemolytica*
- 61. *Pseudomonas aeruginosa*
- 62. *Rhodococcus equi*
- 63. *Salmonella enterica*
- 64. *Salmonella schottmuelleri*
- 65. *Salmonella typhi*
- 66. *Shigella dysenteriae*
- 67. *Staphylococcus aureus*
- 68. *Staphylococcus auricularis*
- 69. *Staphylococcus capitis*
- 70. *Staphylococcus hominis*
- 71. *Staphylococcus simulans*
- 72. *Stenotrophomonas maltophilia*
- 73. *Streptococcus equi* var. *equi*
- 74. *Streptococcus equi* var. *zooepidermicus*
- 75. *Streptococcus pneumoniae* (PRSP)
- 76. *Streptococcus pyogenes*
- 77. *Streptococcus salivarius*
- 78. *Yersinia enterocolitica*

**Pathogenic Fungi**

- 79. *Trichophyton mentagrophytes*

**Environmental Fungi**

- 80. *Aspergillus candidus*
- 81. *Aspergillus niger*
- 82. *Penicillium chermesinum*
- 83. *Penicillium oxalicum*
- 84. *Penicillium spinulosum*
- 85. *Ulocladium* sp.

**Antibiotic Resistant Gram Negative Bacteria**

- 86. *Pseudomonas aeruginosa* (Sulfa, Cefatoxime, Nitrofurantoin, Tetracycline, Amikacin, Ampicillin, Cephalothin and Bactine Resistant)
- 87. *Escherichia coli* (Ampicillin, Tetracycline, Penicillin and Sulfa Resistant)
- 88. *Klebsiella oxytoca* (Ampicillin, Sulfanilimide and Tetracycline Resistant)
- 89. *Klebsiella pneumoniae* type 1 (Ampicillin, Tetracycline, Cephalothin and Sulfa Resistant)
- 90. *Morganella morganii* (Penicillin and Tetracycline Resistant)
- 91. *Enterobacter agglomerans* (Ampicillin and Sulfanylimide Resistant)
- 92. *Salmonella choleraesuis* (Antibiotic Resistant)
- 93. *Enterobacteriacia with extended beta-lactamase resistance* (Ampicillin and Piperacillin Resistant)

**Antibiotic Resistant Gram Positive Bacteria**

- 94. *Enterococcus faecalis* (Vancomycin Resistant-VRE)
- 95. *Enterococcus faecium* (Vancomycin Resistant-VRE)
- 96. *Staphylococcus aureus* (Methicillin-MRSA, Community Associated Methicillin Resistant - CA-MRSA PVL Positive)
- 97. *Staphylococcus aureus* (CA-MRSA Genotype USA 400)
- 98. *Staphylococcus aureus* (Penicillin G, Penicillin, Ampicillin, Cefazolin, Cefatoxime, Chloramphenicol, Ciprofloxacin, Clindimycin, Erythromycin, Oxacillin, Rifampin, Tetracycline Resistant)
- 99. *Staphylococcus aureus* (Vancomycin Resistant - VRSA)
- 100. *Staphylococcus aureus* (Vancomycin Resistant Intermediate-VISA)
- 101. *Staphylococcus epidermidis* (Ampicillin and Drug Resistant)

**Virucidal Performance:** At 2 ounces per gallon (1:64) use level, 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:

**Human Viruses**

- 102. Adenovirus type 2
- 103. Cytomegalovirus
- 104. HBV (Hepatitis B Virus)
- 105. HCV (Hepatitis C Virus)
- 106. Herpes Simplex type 1 Virus
- 107. Herpes Simplex type 2 Virus
- 108. HIV-1 (AIDS Virus)
- 109. Human Coronavirus
- 110. Influenza A/Brazil Virus
- 111. Influenza A/Victoria (H3N2) Virus
- 112. Influenza A2-Asian Virus
- 113. Influenza B Virus (Allen strain)
- 114. Influenza C Virus (Taylor strain)
- 115. Measles Virus
- 116. Parainfluenza type 1
- 117. Poliovirus type 1 (Chat strain) 30 minutes contact time
- 118. Respiratory Syncytial Virus
- 119. Rotavirus
- 120. Vaccinia Virus

**Animal Premise Virucidal Performance:** At 2 ounces per gallon (1:64) use level, 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:

**Non-Human Viruses**

- 121. Avian Influenza/Turkey/Wisconsin Virus
- 122. Canine Coronavirus
- 123. Canine Distemper Virus
- 124. Canine Herpesvirus
- 125. Equine Herpesvirus
- 126. Equine Influenza
- 127. Feline Calicivirus
- 128. Norovirus
- 129. Feline Infectious Peritonitis
- 130. Infectious Bovine Rhinotracheitis (IBR)
- 131. Newcastle Disease Virus
- 132. Porcine Parvovirus
- 133. Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)
- 134. Porcine Rotavirus
- 135. Pseudorabies Virus
- 136. Transmissible Gastroenteritis (TGE)
- 137. T1 bacteriophage
- 138. T4 bacteriophage
- 139. Vesicular Stomatitis Virus (VSV)
- 140. Bovine Viral Diarrhea Virus (BVDV)
- 141. Avian Influenza Virus (H5N1)