

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

10324-85

2/21/2007

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FEB 21 2007

Ms. Elizabeth Tannehill  
Regulatory manager  
Mason Chemical Company  
721 W. Algonquin Rd.  
Arlington heights, IL 60005

Subject: Maquat 86-M  
EPA Registration No. 10324-85  
Application Date: 9/27/06  
Receipt Date: 10/2/06

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable with comments:

Addition of marketing statements, directions for use and organisms

**EFFICACY**

1. The proposed label claims that the product, Maquat 86-M, is an effective one-step disinfectant at full strength with a contact time of 10 minutes on hard, non-porous surfaces at room temperature against the following organisms:

*Enterobacteriaceae* with extended  
beta-lactamase resistance  
*Vibrio cholerae*  
*Burkholderia cepacia*

These claims are acceptable as they are supported by the submitted data.

2. The proposed label claims that the product, Maquat 86-M, is an effective one-step disinfectant with virucidal activity against Respiratory syncytial virus at full strength with a contact time of 10 minutes on hard, non-porous surfaces at room temperature. These claims are acceptable as they are supported by the submitted data.

3. The label (page 6, left panel) reads, "Special Instructions for Cleaning and Decontaminating areas which may be infested with Hantavirus." This section formerly read "Special Instructions for Cleaning and Disinfecting areas." The

**CONCURRENCES**

SYMBOL								
SURNAME								
DATE								

applicant must change "decontaminating" back to "disinfecting." The product is registered as a disinfectant; use of verbiage referring to decontamination is not applicable to this product and may confer heightened efficacy which is confusing to the consumer. Under this heading, the phrase "Decontaminate Personal Protective gear..." should be changed to read, "*Disinfect* Personal Protective gear..."

4. On page 9 of the label (right column), under "Veal, Calving, Hog, Cattle, and Horse Operations," delete the reference to "ventilation equipment" as this implies that this product may be used in HVAC&R systems. This type of use requires a risk assessment and separate, detailed directions for use. In addition, the applicant must add the following statement to this section: "Empty all troughs, racks, and other feeding and watering appliances." applicant has
5. On page 11 of the label (left column) under "Entryway Sanitizing Systems," the applicant must revise the directions to read, "...The (spray) (foam) *must* cover the entire path of the doorway..." to be in accordance with PR Notice 2005-5. The label (page 12, left and right panels) lists instructions for use of the product for sanitization of whirlpool units (presumably in salons). In light of recent outbreaks of skin infections associated with the use of foot spas, delete directions for *sanitization* of foot spas from their label, leaving *disinfection* directions. Sanitization of these systems will likely not provide the level of efficacy needed to prevent infection.
6. The label (pages 12 through 17) lists use instructions for mold and mildew remediation, as well as use directions for air ducts. These are both new uses for this product. A risk assessment was performed for these uses in association with Registration Number 10324-80, which has an equivalent use dilution. Therefore the findings of that assessment apply to this product. The Agency found that there were dermal exposure concerns associated with the residential use of the product and that the methods of treatment for HVAC were not appropriate for homeowner application. Since Maquat 86-M has residential applications listed on its label, both the mold and mildew remediation and air duct uses must be removed from this product label.
7. The nomenclature of *Salmonella choleraesuis* has been changed to *Salmonella enterica* by the ATCC. The applicant should note this change and amend current and future labels to reflect this. (<http://www.atcc.com/common/catalog/numSearch/numResults.cfm?atccNum=10708>)
8. This product holds approved claims for Avian Influenza A/Turkey/Wisconsin virus on its label. While currently there are no marketing claims specific to this

organism, the applicant must be made aware of current agency policy regarding such claims should they want to list them in the future:

Featured statements/phrases emphasized/enlarged lettering, special graphics, or any product name that employs the terms "Avian influenza A" or "Bird Flu", are unacceptable. Featured statements/phrases, emphasized/enlarged lettering or special graphics that are employed for the primary purpose of especially promoting or drawing attention to product efficacy against avian influenza A, are also unacceptable. For example, a featured, incomplete phrase such as "Kills avian influenza A" will not be permitted, but the phrase "Kills avian influenza A on pre-cleaned environmental surfaces" is acceptable.

9. On page 7 of the label (right panel), change "2. Remlove water from toilet bowl" to read, "2. *Remove* water from toilet bowl."
10. Make the following corrections to the data matrixes in your files.
  - i. Maquat 5.5-M is consistently listed with a Registration Number of 10324-86, this should be changed to read 10324-80.
  - ii. On page 4, MRID Number 469456-02 is listed as "Virucidal Efficacy: Respiratory syncytial virus (Maquat 615-HD 10324-71)." The correct Registration Number for 615-HD is 10324-72.
11. Revise the 6th claim/bullet in the right column on page 4 to end as follows: "...coils and drain pans of air conditioning, refrigeration equipment and heat pumps." By deleting the word "and" following air conditioning.
12. Delete the heading "Organism Guide" at the beginning of page 5 and replace with the heading "Directions for Use" along with the statement: "It is a violation of Federal Law to use this product in a manner inconsistent with its labeling." Delete this heading and statement as they appear in the right column on the same page. The directions for the use of this product begin where you have proposed the heading "Organism Guide".
13. The species identification for *Salmonella choleraesuis* has been changed by ATCC. Revise page 5 to indicate the new designation, *Salmonella enterica* for each *Salmonella* species.
14. Since the animal viruses listed under "Animal Premise Virucidal Performance" are not indicative of the other use sites on this label, these directions and this list of animal viral pathogens must be deleted from page 5 and placed in the Animal Housing Facilities section on page 8.

language (PR Notice 2000-5) as follows: "...shoe baths containing one inch of fresh undiluted solution *must* be placed at all..."

16. Revise the "Shoe Foam Directions" on page 11 to include mandatory language (PR Notice 2000-5) as follows: "...Foam area *must* be washed and replaced..."

17. Revise the "Entryway Sanitizing Systems" directions on page 11 to include mandatory language (PR Notice 2000-5) as follows: "...The (spray) (foam) *must* cover the entire path of the doorway..."

18. Revise the "Sanitization of Hard, Non-Porous Surfaces in Whirlpool Units" as follows: "...After the unit has been thoroughly *sanitized*, drain..."

### **ACUTE TOXICITY**

1. The dermal sensitization is acceptable. The report has a deficiency in that it does not provide the irritation scores for the induction portion of the test material evaluation. However, as the induction was conducted using undiluted test material, the induction scores are not a necessity.

The acute toxicity profile for File Symbol 10324-85 is :

Study	MRID Number	Toxicity Category	Status
Acute Oral Toxicity	444063-01	IV	Acceptable
Acute Dermal Toxicity	444063-02	III	Acceptable
Acute Inhalation Toxicity			Cite All
Primary Eye Irritation	444063-03	IV	Acceptable
Primary Skin Irritation	444063-04	IV	Acceptable
Dermal Sensitization	469456-07	Nonsensitizer	Acceptable

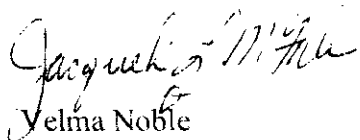
### **GENERAL COMMENTS**

A Stamped copy of the accepted labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

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Should you have any questions or comments concerning this letter, please contact Zenobia Jones at 703-308-6198.

Sincerely,

A handwritten signature in cursive script, appearing to read "Velma Noble".

Velma Noble

Product manager 31

Regulatory Management Branch 1

Antimicrobial Division (7510C)



**MASON CHEMICAL COMPANY**  
**"The Quaternary Specialists"**

1721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

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

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

**MAQUAT 86-M**

Net Contents:

Batch No:

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

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

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

**ENVIRONMENTAL HAZARD**

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

**PHYSICAL OR CHEMICAL HAZARDS**

Do not mix with oxidizers, anionic soaps and detergents.

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

**STORAGE AND DISPOSAL**

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

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

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

**CONTAINER DISPOSAL** (Larger than 1 gal.): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

**STORAGE AND DISPOSAL**

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

*(Storage and Disposal for Households)*

**STORAGE AND DISPOSAL**

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

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

Disinfectant, Cleaner, Mildewstat, Fungicide, Sanitizer (non-food contact surfaces), Virucide\*, Deodorizer for Hospitals, Nursing Homes, Whirlpools, Home, Institutional, Industrial, Schools, Dairy, Equine, Poultry/Turkey, Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use and for Harvesting & Handling Equipment.

Non-Acid Bathroom Cleaner.

Formulated for effective Poultry Sanitation.

Formulated for effective Swine Premise Sanitation.

Formulated for effective Mushroom Farm Sanitation.

**ACTIVE INGREDIENTS:**

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

**INERT INGREDIENTS:** ..... 99.914%

**TOTAL** ..... 100.000%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See left panel for additional precautionary statements.

**First Aid**

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

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

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

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

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This product contains no phosphorous.

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

This product maximizes labor results by effectively controlling odors.

This product 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. (\*1)

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). (\*1)

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

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

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

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

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

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

This product will not leave a grit or soap scum.

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

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 a clear solution.

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 for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors. (Not for use in California) (\*1)

This product is for use as a disinfectant on hard, non-porous surfaces. A potable water rinse is required after application on food contact surfaces. (\*1)

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

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

Use this product to disinfect non-porous salon/barber tools and instruments: (such as) combs, clippers, brushes, trimmers, razors, scissors, blades, tweezers, and manicure/pedicure instruments and footbath surfaces. (\*1)

Use this product to disinfect/sanitize non-porous salon/barber tools and instruments: (such as) combs, clippers, brushes, trimmers, razors, scissors, blades, tweezers, and manicure/pedicure instruments. (\*1)

This product is a one-step 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. (\*1)

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

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

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew.

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

This product is effective against household bacteria and odors caused by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors. (\*1)

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

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

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

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

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

This product is for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls. (\*1)

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

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

Use this product to clean, sanitize and disinfectant non-porous personal protective safety equipment, protective headgear, 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 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.) (\*1)

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. (Caution: Cleaning at 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.) (\*1)

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses.

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.

This product may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop.

Use this product to clean, disinfect and deodorize flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors may develop.

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

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips.
2. Production of ethylene gas, which may injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria.

Floor cleaner.

One-step cleaner.

Cleans everyday kitchen messes.

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

Cleans and shines.

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

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

Will not harm sealed stone, sealed grout, or glazed tile.

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

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

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

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

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

Hospital use Disinfectant. Institutional Disinfectant (Sanitizer).

Kills common kitchen (bathroom) bacteria (and viruses\*).(1)

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

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

This product is for use in Poultry Premise Sanitation (Hatcheries): (1)

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 for use in Swine Premise Sanitation: (1)

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

This product is a disinfectant and non-food contact sanitizer for Hospital Pharmacy Compounding, Cleanroom, and Laboratory areas to disinfect washable, hard, non-porous surfaces such as: Laminar-airflow equipment and BioSafety Cabinet work surfaces and exterior surfaces including countertops, sinks, plumbing fixture surfaces, incubators, Refrigerators and Centrifuge surfaces of metal, stainless steel, glass, plastic (such as polystyrene or polypropylene), Formica®, and vinyl. (New statement - 2)

Maquat® 86-M for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, isolation wards, and medical research facilities, hospices. (2)
- Patient care rooms & facilities, recovery rooms, anesthesia, Emergency Rooms, X-ray cat labs, newborn nurseries, orthopedics, whirlpools, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms. (1)
- EMS & fire facilities, emergency vehicles, ambulance(s), ambulance equipment/surfaces, carts, gurneys, stretchers, police cars. (10324-117 & 334-241)
- Day care centers and nurseries, sick rooms, kindergartens, and preschools. (2)
- 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, municipal government buildings, prisons, jails, penitentiaries, correctional institutions, bus stations, train stations. (1)
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals, maintenance vehicles, and maintenance equipment. (2)

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- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms.
  - Hotel, motels, dormitories.
  - Kitchens, bathrooms and other household areas.
  - Homes (households), condos, apartments, vacation cottages, summer homes. (\*2)
  - Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, fieldhouses. (\*2)
  - Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, warehouses. (\*2)
  - Heath clubs, spas, tanning spas, tanning beds, footbath surfaces, massage/ facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
  - Humidifier water tanks. (Not for use in California) (\*1)
  - 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, canneries, caterers, bakeries. (\*2)
  - Processing facilities for Fish, Milk, Citrus, Fruit, Vegetable, Ice Cream, Potatoes and beverage plants.
  - Tobacco plant premise and equipment. (\*1)
  - Veterinary clinics, animal life science laboratories, animal research centers, animal quarantine areas, animal breeding facilities, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities. (\*1)
- Farmhouses, barns, sheds, tool sheds, well houses, grain elevators, grain bins, silos, barns, cattle barns, swine barns, sheep barns, horse barns, brooder houses, bins, tractors, combines, harvesting equipment, and wagons. (\*2)
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, vans and trash containers, seed houses. (65020-12 & 334-241)
  - Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, delivery trucks, boxcars, tankers, tank trucks, buses, trains, taxis, helicopters and airplanes. (\*2)
  - 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:
- Food preparation and storage areas.

- Countertops (counters), stovetops (stoves), sinks (bathroom, kitchen), tub surfaces, non-food contact surfaces of Slurppy® machines, and exterior surfaces of appliances, refrigerators, 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 woodwork (finished), Formica®, vinyl and plastic upholstery.
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large, inflatable, non-porous plastic and rubber structures: animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.
- 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.). (\*1)
- Telephones and telephone booths.
- Highchairs.
- Drinking fountains.
- Commercial Florist and flower shops.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, glazed porcelain, glazed tile and restroom fixtures. (\*1)
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring. (\*1)

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants.

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

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

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

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

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Canine Coronavirus. (\*1)

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

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## ORGANISM GUIDE

**Disinfectant Performance:** This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces, modified in the presence of 5% organic serum against:

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

**Virucidal\* Performance:** This product was evaluated and found to be effective against the following viruses on inanimate hard non-porous environmental surfaces. Treated surfaces must remain wet for 10 minutes. For heavily soiled areas, a preliminary cleaning is required.

Herpes Simplex Type1	Hantavirus
Herpes Simplex Type2	Influenza A/Brazil Virus
Hepatitis C virus	Respiratory syncytial virus
Hepatitis B virus	Vaccinia virus
Human Coronavirus	

This product was evaluated and found to be effective against the following viruses on inanimate hard non-porous environmental surfaces. Treated surfaces must remain wet for 2 minutes.

HIV-1 (AIDS virus)

**Animal Virucidal\* Performance:** This product was evaluated and found to be effective against the following viruses on inanimate hard non-porous environmental surfaces. Treated surfaces must remain wet for 10 minutes. For heavily soiled areas, a preliminary cleaning is required.

Avian influenza A/Turkey/Wisconsin	Porcine Respiratory & Reproductive Virus (PRRSV)
Canine Distemper	Porcine Rotavirus
Canine Coronavirus	Pseudorabies virus
Infectious Bovine Rhinotracheitis virus (IBR)	Transmissible Gastroenteritis (TGE)
Newcastle disease virus	

**Non-Food Contact Sanitizing Performance:** This product is an effective sanitizer on hard, non-porous environmental surfaces. Treated surfaces must remain wet for 5 minutes. Allow to air dry.

<i>Staphylococcus aureus</i>	<i>Klebsiella pneumoniae</i>
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**Fungicidal Performance:** This product is effective on hard, non-porous surfaces against the following. Treated surfaces must remain wet for 10 minutes

<i>Candida albicans</i>	<i>Trichophyton mentagrophytes</i>
<i>Aspergillus niger</i>	

## DIRECTIONS FOR USE

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

(Note for reviewer: For labels that list medical premises and metal and/or stainless steel surfaces, one of the following statements must be used:\*) (\*1)

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

(Or use the following language if not used on medical devices or medical equipment)

Not for use on medical devices or medical equipment surfaces.

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

### Disinfection, Virucidal\* and Fungicidal Control

This is a proven one-step disinfectant, cleaner, sanitizer, fungicide, mildewstat, and virucide\*.

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

**NOTE:** With spray applications cover or remove all food products. Apply product undiluted and replace if product becomes soiled.

For heavily soiled areas, a preliminary cleaning is required. Then wipe excess with sponge, mop or cloth or allow to air dry.

Fungicidal against *Candida albicans* and *Trichophyton mentagrophytes* (the agent that causes athlete's foot fungus) on inanimate surfaces in locker rooms, dressing rooms and shower and bath areas and exercise facilities. Apply this product undiluted and follow the directions under "Disinfection, Virucidal\* and Fungicidal Control".

**Hepatitis B Virus:** This product was proven to be effective against (Duck) Hepatitis B Virus with a contact time of 10 minutes.

**HIV (AIDS virus):** With a 2 minute contact time, this product was found to be effective against HIV-1 (AIDS virus).

**Hepatitis C Virus:** With a 10 minute contact time, this product was found to be effective against Bovine viral diarrhea virus (BVDV) (Surrogate for human Hepatitis C virus).

**For Schools, Industry and Non-Medical Institutional Uses:** This product delivers cleaning and germicidal effectiveness. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. For heavily soiled areas, a preliminary cleaning is required. Apply product undiluted and replace if product becomes soiled. It is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Escherichia coli* and *Serratia*

marcescens. The same AOAC tests used to confirm performance for hospitals were used.

**\*KILLS HIV, HCV AND HBV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings 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 B virus (HBV) and Hepatitis C virus (HCV).

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

**PERSONAL PROTECTION:** Clean up must always be done wearing protective latex gloves, gowns, masks and eye protection. (Alternate statement: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.) *(Please note the alternate statement has been previously approved on this label.)*

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

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

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

(OR)

For HIV, leave surfaces wet for two minutes. This contact time will not control other common types of viruses and bacteria. For HBV, leave surfaces wet for 10 minutes. For HCV, leave surfaces wet for 10 minutes.

**Special Instructions for Cleaning and Decontaminating areas which may be fested with Hantavirus**

Infection with Hantavirus occurs by inhalation of infectious materials. Persons involved with cleanup must wear coveralls, (disposable, if possible), rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air (HEPA) filter respirator or a powered air-purifying respirator (PAPR) with HEPA filter. Decontaminate Personal Protective gear upon removal at the end of the day. If the coveralls are not disposable, they must be laundered on site. If no laundry facilities are available, the coveralls must be immersed in liquid disinfectant until they can be washed.

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

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

1. Air out the building for at least 30 minutes by opening windows and doors.

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

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

**For Use on Finished Floors:** To limit gloss reduction, use this product undiluted. Apply with a damp mop or auto scrubber. Allow to air dry. (\*1)

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

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

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

**Fungicidal Activity:** This product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) and Candida albicans on inanimate, hard, non-porous surfaces in locker rooms, dressing rooms and shower and bath areas and exercise facilities. Apply this product undiluted and follow the directions under "Disinfection, Virucidal and Fungicidal Control".

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

**To Control the Growth of Mold and Mildew on Non-Porous Athletic Equipment:** For use on wrestling and gymnastic mats, athletic mats, exercise equipment, 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 undiluted solution for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried. (\*3)

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply undiluted solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces should remain wet for ten (10) minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134). (\*3)

**Cleansing of Body Surfaces and Body Orifices of Human Remains:** To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, apply this product undiluted to the surfaces and body openings, natural or artificial. 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

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results. Prepare a fresh solution for application of each remains. (Alternate statement: Use fresh undiluted product for application of each remains.) (\*1)

**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 undiluted solution for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

**For Use To Clean and Disinfect Barber and Beauty/Manicure Instruments and Tools: (\*3)**

1. Pre-clean heavily soiled items.
2. Completely immerse pre-cleaned combs, scissors, clipper blades, razors, manicure implements and other non-porous instruments in undiluted solution so that surfaces remain wet for ten (10) minutes.
3. Rinse surfaces thoroughly and let air dry before reuse.
4. Change solution at least daily or sooner if visibly dirty.

(OR)

**Disinfection/Fungicide/Virucide for Barber/Salon Tools Directions:** Immerse pre-cleaned barber/salon tools, such as combs, brushes, razors, manicure/pedicure tools, clippers, tweezers, clipper and trimmer blades, and scissors, in undiluted solution. Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Use product undiluted and replace if product becomes 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. Using undiluted solution to saturate 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 breathe spray. Do not use equipment until treatment has been absorbed, set or dried.

#### **PUBLIC RESTROOMS (\*3)**

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

This product cleans, disinfects and deodorizes surfaces by killing odor causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use on (restroom surfaces): glazed ceramic (restroom) tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms, and locker rooms.

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

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

(OR)

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

Remove gross filth prior to disinfection.

Remove water from the toilet bowl. Apply 1-2 ounces of undiluted solution to the toilet bowl. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Allow to stand for 10 minutes and flush.

(Or use alternate Use directions)

**For Use as a Non-Acid Bowl Cleaner/Disinfectant in Toilet Bowls from Concentrate: (\*3)**

1. Pre-clean heavily soiled areas.
2. Remove water from toilet bowl.
3. Add 1-2 ounces of undiluted solution into toilet bowl.
4. Swab entire surface area especially under the rim.
5. Allow entire surface to remain wet for ten (10) minutes.
6. Flush toilet and rinse swab applicator thoroughly.

(Or use alternate Use directions)

**Toilet Bowls/Urinals:** Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting. Clean by applying undiluted solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first pre-clean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in 1-2 oz. of undiluted solution. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush. (\*3)

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

**Glass Cleaning/Deodorizing Directions:** Use undiluted solution to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray. (\*3)

**For Use To Clean and Disinfect Shower Rooms, Locker Rooms and Other Large, Open Areas with Floor Drains: (\*3)**

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

**For Use as a One-Step Cleaner/Disinfectant: (\*3)**

1. Pre-clean heavily soiled areas.
2. Apply undiluted solution to hard, non-porous environmental surfaces.
3. To disinfect, all surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces (and let air dry).

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

**Cleaning/Deodorizing Directions:** Apply undiluted solution with a mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. If mechanical spray device is used, spray should be coarse. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray. Allow to air dry or wipe up excess liquid. (\*1)

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

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

**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 unit, drain the water from the unit. Apply this product undiluted. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain any solution from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse. (\*1)

#### **FOOD SERVICE (\*3)**

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

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

**Directions for Food Processing Plants:** For use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Follow Disinfection directions. (\*3)

**Directions for Food Storage Areas:** For use on non-food contact surfaces such as shelves, floors, walls and tables. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Then follow Disinfection directions. (\*3)

**For Use as a Cleaner/Disinfectant in Food Processing Plants: (\*3)**

1. Before using this product in food processing areas, food products and packaging materials must be removed from the room or carefully protected.
2. Apply undiluted solution evenly over surface using a cloth, mop, sponge or coarse spray device. Be sure to wet all surfaces thoroughly. Do not breathe spray.

3. Allow product to remain on surface for ten (10) minutes.
4. Wipe with clean cloth, sponge or paper towel.
5. For heavily soiled areas, thoroughly clean surface prior to disinfecting.
6. When disinfecting food contact surfaces used for food preparation, rinse surfaces thoroughly with potable water. This product must not be used to clean the following surfaces: utensils, glassware and dishes.

**To Disinfect Food-Processing and Tobacco Premise:** Before using this product, food products and packaging materials must be removed from area or carefully protected. (For) floors, walls and storage areas. For heavily soiled areas, a pre-cleaning step is required. Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water. (\*1)

**To Disinfect Food Service Establishment Food Contact Surfaces:** (For) countertops, exterior surfaces of appliances, and tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. For heavily soiled areas, a pre-cleaning step is required. Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. After use, all surfaces in the area must be thoroughly rinsed with potable water. This product is not for use on dishes, glassware, interior surfaces of appliances or eating utensils.

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

#### **ANIMAL HOUSING FACILITIES (\*3)**

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

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

#### **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.

**Application:** Remove all animals and feeds from premises, vehicles (trucks, cars), and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure

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from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with undiluted solution for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which may contact food or water with soap or detergent, and rinse with potable water before reuse. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. (\*1)

**Disinfection of Poultry/Turkey Equipment, Swine Quarters, Livestock Farms, Equine Quarters, Animal Quarters and Kennels:** Prior to disinfection, remove all poultry, other animals and their feed from premises, vehicles (trucks and cars), and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. (\*1)

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

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

**Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Swine Quarters, Livestock Farms, Equine Quarters, Animal Quarters and Kennels Directions:** Remove all animals and feeds from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply undiluted solution with a mop, cloth, sponge or hand pump trigger sprayer. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. (\*1)

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:** Use this product undiluted to treat the following hard, non-porous surfaces: hatching, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, trash containers, carts, sexing tables, delivery trucks, vans and other hard

surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry. (\*1)

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray device. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Allow to air dry. (\*1)

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

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

**VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS (\*1):** Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles, and other environmental surfaces may be required. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with undiluted solution and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse. (65020-12)

**FARM PREMISE USE:** Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, stables, chutes and other facilities and fixtures occupied or transversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with undiluted product and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse. (\*1)

(OR)

#### **FARM PREMISE DISINFECTION DIRECTIONS**

**For use in Equine, Dairy and Hog Farms: (\*1)**

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, stables, chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.



4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with undiluted product 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.

**For Use in Livestock, Poultry and Turkey Houses: (\*3)**

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

**For Use For Treatment of Animal Housing Facilities: (\*1)**

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, stables, chutes and other facilities and fixtures occupied or transversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with undiluted solution 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 (\*1):** 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 undiluted solution 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.

**Disinfecting Potato Storage Area and Equipment (\*1):** 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.

**Veterinary Practice/Animal Care Facilities/Animal Laboratory/Animal Research Centers/Animal Quarantine Areas/Animal Breeding Facilities/Animal Life Science Laboratory/Zoos/Pet Shop/Kennels/Breeding and Grooming Establishment/Tack Shops Disinfection Directions:** For cleaning and disinfecting the following hard, non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals 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 undiluted product and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, chovels, scrappers used in removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment that dispenses food or water with soap or detergent and rinse with potable water before reuse. (\*1)

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

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

**For Control of the Drosophila spp. and Phoridae Family of Flies on Non-Food Contact Surfaces:** 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 undiluted solution 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. (\*1)

**FOR CONTROL OF SMALL FLIES IN DRAINS:** For control of small flies: *Drosophila* spp. and the *Phoridae* family. Spray or pour undiluted solution 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. (\*1)

### SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS

**To Sanitize (and Deodorize):** Apply undiluted use solution to hard, inanimate, non-porous surfaces, thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. Let stand for 5 minutes. Then wipe. Allow to air dry.

**SHOE BATH SANITIZER DIRECTIONS:** To prevent cross contamination into treated animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of fresh undiluted solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in solution for 5 minutes prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears dirty.

**SHOE FOAM DIRECTIONS:** To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants. Apply a foam layer approximately 0.5 to 2 inches thick of undiluted solution 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 5 minutes prior to entering area. Foam area should be ashed and replaced at least daily or when it appears dirty. (\*1)

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

**ENTRYWAY SANITIZING SYSTEMS:** To prevent cross contamination from area to area, set the system to deliver undiluted 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. (\*1)

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 undiluted solution of this product for at least 5 minutes. Rinse thoroughly and dry before use. Apply product undiluted and replace if product becomes 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.

**Sanitization of Hard, Non-Porous Surfaces in Whirlpool Units:** After using the whirlpool unit, drain. Add undiluted solution to just cover the intake valve. 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 5 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. (\*1)

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

(OR)

**Humidifier Bacteria/Algae Treatment:** Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. Add 1 ounce of this product. When you refill the tank, add 1 ounce of this product. *(Not for use in California)*

Not for use in heat or atomizing type humidifiers. *(Not for use in California)*

### WATER/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 water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, frame lumber, tackless strip and paneling. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

**Sewer backup & river flooding:** During mitigation procedures, remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

**Carpets, Carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling:** For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

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

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

**CARPET SANITIZER (DEODORIZER) AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE** *(Use as a sanitizer is not allowed in California)* (\*1)

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

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

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

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

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

**SMOKE DAMAGE RESTORATION** (Not for use in California): Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use: This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Using solutions recommended, saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

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

**For Heavy Duty Cleaning:** When greater cleaning is desired, heavily soiled areas may require repeated cleaning before treatment.

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

#### **DIRECTIONS FOR HOUSEHOLD USE**

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

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

This product is used to protect treated articles from decay, mold or mildew.

#### **MOLD AND MILDEW CONTROL IN WOOD, WALLBOARD, CONCRETE, AND MASONRY (CINDER) BLOCK CONSTRUCTION MATERIAL IN BUILDINGS**

This product is used to treat wood, wallboard, concrete, and masonry (cinder) block building materials to inhibit or prevent the growth of mold organisms when the materials are subjected to moist or wet environments. Before applying this product, visible mold growth must be removed, and the conditions favorable to mold growth must be identified and corrected.

This product is compatible with, and may be mixed with wood protection products containing borates (such as BORA-CARE® and CELLU-TREAT®).

**DO NOT** use on food-contact surfaces, or on the interior of buildings engaged in food processing or food handling.

#### **PREVENTATIVE TREATMENT**

To inhibit surface mold and mildew growth on wood, wallboard, concrete, and masonry (cinder) block construction materials in new or renovated building construction apply undiluted solution evenly by paintbrush, airless sprayer, low pressure handwand, or backpack sprayer. Assure uniform coverage of surfaces to be protected and thoroughly wet all treated surfaces completely. Surfaces should be evenly wet without runoff or pooling. Permit treated surfaces to thoroughly dry before painting or affixing overlayment materials such as siding, wallboard or flooring.

Repeat the application of this product as necessary if mold growth appears, following directions provided below for **REMEDIAL TREATMENT**. Normally, infrequent application (once a year or longer) provide effective control. If regrowth occurs, investigate to determine the cause and correct the problem prior to reapplication of this product. Mold may occur in conditions of persistently high humidity, standing water, or hidden water leaks.

#### **REMEDIAL TREATMENT**

This product must be used as part of a comprehensive mold remediation or water damage restoration program, including:

- Periodic monitoring and inspection of conditions favorable to mold growth such as moisture ingress and high relative humidity.
- Effecting repairs as necessary to eliminate conditions favorable to mold growth
- Drying affected areas to below 20% moisture content.

Apply undiluted solution evenly by paintbrush, airless sprayer, low pressure handwand, or backpack sprayer. Assure uniform coverage of surfaces to be protected and thoroughly wet all treated surfaces completely. Surfaces should be evenly wet without runoff or pooling. Permit treated surfaces to thoroughly dry before painting or affixing overlayment materials such as siding, wallboard or flooring.

The following associations and internet sites should be consulted for information on standards and guidelines for remedial treatment of mold and mildew:

- IICRC-Institute of Inspection, Cleaning and Restoration Certification (<http://www.iicrc.org/>)
- IAQA-Indoor Air Quality Association ([www.iaqa.org](http://www.iaqa.org))
- EPA-Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))
- DOH-New York City Department of Health ([www.ci.nyc.ny.us/html/doh/html/epi/moldrpt1.html](http://www.ci.nyc.ny.us/html/doh/html/epi/moldrpt1.html))

**All Areas-Total Surface Area Affected Less Than 10 Square Feet**

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