DIRECTIONS FOR USE

PRECAUTIONARY STATEMENTS

Hazardous to humans and domestic animals. Harmful if swallowed. May cause irritation of the skin, eyes, or respiratory tract. Avoid contact with clothing, shoes, or work surfaces by using protective gear. Avoid contamination of personal clothing with this product.

FIRST AID:

Immediately after exposure, flush the eyes with water. If contact occurs in the eye, wash out with water. If there is no obstructing foreign material, wash the eyes with water continuously for 15 to 20 minutes. Remove any contact lenses and continue to wash out the eye. Call a poison control center or doctor immediately for further treatment advice. Do not give anything by mouth to an unconscious person. Inhaled material: Provide fresh air. If effects continue, call a poison control center or doctor immediately. In case of contact with clothing, wash clothing immediately before reuse.

Other Precautions:

Do not store on or near heating or cooling equipment. Do not mix with other substances. Do not store near food, feed, or water sources. Do not store on or in contact with the floor, countertops, sinks, or any other area exposed to possible contamination. Do not store in or on windowsills or other areas susceptible to direct sunlight. Keep out of the reach of children.

Storage:

Store in a cool, dry place. Protect from sunlight. Do not store in the presence of water. Do not allow to freeze. Avoid contamination of personal clothing with this product.

Disposal:

Do not dispose of empty containers in toilets or sewers unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES). 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 Quality Control Board or Regional Office of the EPA, PESTICAL Disposal. Do not use or store near open flame or fire.

STORAGE and DISPOSAL

STORAGE

Do not store at temperatures extremes or in sunlight. Avoid shipping or storing below freezing. If product freezes, thaw at room temperature and shake gently to remix.

Do not store open or beneath floors or walls. Avoid creasing or impacting on 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.

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 are disposed of according to the instructions on the label, no pesticide registration or Environmental Control Agency, or the Hawaii State Vectoral representative at the nearest Regional Office of the EPA, PESTICAL Disposal. Do not use or store near open flame or fire. Do not store in the presence of water. Do not store on or near heating or cooling equipment. Avoid mixing with other substances. Avoid contamination of personal clothing with this product.

SYNOPSIS

This product is toxic to fish and aquatic invertebrates. This product can be used in locations where application into lakes, ponds, streams, brooks, ditches, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permit and the person applying the pesticide are in compliance with the NPDES permit.

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 the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but requires only a 30 second contact time. This product, in the presence of a 6% organic soil load, diluted 1:24 (4 ounces per gallon) in 700 ppm hard water, demonstrated efficacy within 10 minutes against the following organisms: Staphylococcus aureus, Salmonella enterica.

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 the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but requires only a 30 second contact time. This product, in the presence of a 6% organic soil load, diluted 1:24 (4 ounces per gallon) in 700 ppm hard water, demonstrated efficacy within 10 minutes against the following organisms: Staphylococcus aureus, Salmonella enterica.

This product, in the presence of a 66% organic soil load, diluted 1:14 (2 ounces per gallon) in 700 ppm hard water, demonstrated efficacy within 10 minutes against the following organisms: Staphylococcus aureus, Salmonella enterica.

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.

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 immediately for treatment advice. Be sure to wash any clothing or work uniforms used. Do not use for more than 30 minutes. Discard Rinsate. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Nonrefillable container. Do not reopen or return this container. For other uses see label for additional directions.

STATEMENT OF PRACTICAL TREATMENT - FIRST AID

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 poison control center or doctor for further treatment advice.

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.

STATEMENT OF PRACTICAL TREATMENT - FIRST AID

IF INHALED: Move to fresh air. Remove person to fresh air if breathing difficulties continue. Call a poison control center or doctor immediately for further treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

DANGER

Contains a corrosive, irritant, and vesicant agent. Do not get on or in eyes, on skin, or on clothing. Harmful if inhaled. Wear protective eyewear (goggles, face shield or safety glasses). Wear protective clothing and rubber gloves. Avoid contact of clothing with this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

DIRECTIONS FOR USE

This product is intended for use 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, facilities, and veterinary clinics. This product can be used on washable non-porous surfaces such as countertops, tables, chairs, beds, frames, partitions, sinks, faucets, showers, toilets, bathtubs, and sinks. All non-porous surfaces and equipment and hard surfaces: telephones, typewriters, bed rails, band aids, patient charting, shower chairs, stools, bath tubs, and toilet room facilities.

DISPOSAL

Do not pour drainage onto soil. Do not apply to soil. Do not apply to trees, shrubs, lawns, or crops. Do not apply to surface waters or to land that drains to surface waters. Do not apply to surface waters or to surface waters that drain to surface waters. Do not apply on or near aquifers, wildlife refuges, or other wetlands. Do not apply to areas adjacent to Phase I waters or other critical or sensitive human or biological habitats. Do not apply to areas adjacent to aquatic habitats, wetlands, or other aquatic areas, or to areas with lakes, ponds, streams, brooks, ditches, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the person applying the pesticide are in compliance with the NPDES permit.

Do not apply to or near aquifers, wildlife refuges, or other wetlands. Do not apply to surface waters or to surface waters that drain to surface waters. Do not apply to areas adjacent to aquatic habitats, wetlands, or other aquatic areas, or to areas with lakes, ponds, streams, brooks, ditches, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the person applying the pesticide are in compliance with the NPDES permit.

PRECAUTIONARY STATEMENTS

Hazard to humans and domestic animals. Harmful if swallowed. May cause irritation of the skin, eyes, or respiratory tract. Avoid contact with clothing, shoes, or work surfaces by using protective gear. Avoid contamination of personal clothing with this product. This product can be used in locations where application into lakes, ponds, streams, brooks, ditches, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the person applying the pesticide are in compliance with the NPDES permit.
SANTASTIC

Cleaner • Disinfectant • Sanitizer • Detergent
Fungicide • Deodorizer • Virucide* • Mildewstat

Broad Spectrum Disinfectant, Hospital Disinfectant, Antimicrobial, Broad Spectrum Cleaner & Disinfectant, Germicidal, Germicide, Germicidal Cleaner, Cleans As It Disinfects, Antibacterial, Bactericide, Pseudomonacidal, HIV & HBV Virucide*, Kills Common Household Germs, Hospital Virucidal* Disinfectant, Concentrated Disinfectant Cleaner, Concentrated Formula, Claims Against 140+ Organisms

ACTIVE INGREDIENTS:
Alkyl (60% C_{14}, 30% C_{16}, 5% C_{18}, 5% C_{20}) dimethyl benzyl ammonium chloride ................... 2.37%
Alkyl (68% C_{12}, 32% C_{14}) dimethyl ethylbenzyl ammonium chloride ........................................... 2.37%
INERT INGREDIENTS
TOTAL ................................................................................................................................ 100.00%

EPA Reg. No. 61178-1-13051 EPA Est. No. 13051-GA-01

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER. 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 and before eating, drinking, chewing gum, using tobacco or using the toilet. 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: 1-800-255-3924.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish and aquatic invertebrates. 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
Combustible. Do not use or store near heat or open flame.

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 1/4 full with water and recap. Shake for 10 seconds. Discard Rinsate. 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.

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 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.

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

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

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 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 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 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.

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

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.)

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.


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 enterica* (*Salmonella*), and *Staphylococcus aureus* (*Staph*) are common bacteria and are found where food is prepared and stored. This product kills these microorganisms and helps prevent the spread of food borne contamination on kitchen surfaces listed on this label.


Antibacterial.

Kills *Trichophyton mentagrophytes*, agent which causes Athlete’s Foot fungus, in the bathroom.

Hospital use Disinfectant. Institutional Disinfectant.

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

Effective non-food contact sanitizer in the presence of 5% serum contamination.

Effective non-food contact sanitizer in the presence of soils.

**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 preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

SANTASTIC 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, 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, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, dressing rooms and laundries, auto repair centers.
- 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, travel rest areas, shower rooms, shower stalls, bathrooms.
- Hotel, motels, dormitories.
- Kitchens, bathrooms and other household areas.
- Institutions, schools and colleges, churches, classrooms, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms.
- Heath clubs, spas, tanning spas, tanning beds, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons.
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, rendering plants.
- Processing facilities for Fish, Wine, Milk, Citrus, Fruits, Vegetable, Ice Cream, and Potatoes, and beverage plants.
- Tobacco plant premises.
- Veterinary clinics, animal life science laboratories, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops and other animal care facilities.
- Household and automotive garages, boats, ships, barges, campers, trailers, mobile homes, cars, trucks, buses, trains, taxis and airplanes.
- Cruise lines, airline terminals, airports, shipping terminals, public transportation.
- Basements, cellars, bedrooms, attics, living rooms and porches.

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

- Countertops (Counters), non-food contact surfaces of 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, vinyl and plastic upholstery.
- Examination tables, X ray tables, washing areas.
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Hard, non-porous surfaces of picnic tables and outdoor furniture.
- 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.
- 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.
- Whirlpools, whirlpool bathtubs.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables.
Use this product to clean 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.)

Use this product to clean, sanitize and disinfect 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 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.)

This product is for use in Poultry Premise Sanitation (Hatcheries)
- Egg Receiving Area
- Tray Dumping Area
- Chick Processing Area
- Egg Holding Area
- Hatchery Area
- Chick Holding Area
- Chick Loading Area
- Setter Room
- Hatchery Room
- Poultry Buildings

This product is for use in 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 300 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.

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)

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.

**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]. 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. SANTASTIC 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 enterica*.

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 CaCO3) and in the presence of organic soil (5% blood serum) for a contact time of 10 minutes. Remove gross filth or heavy soil. For heavily soiled areas, a pre-cleaning step is required.

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:
SANTASTIC - Microorganism List

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:

**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**
1. Enterococcus faecalis
2. Micrococcus luteus
3. Staphylococcus aureus
4. Staphylococcus aureus (Toxic shock)
5. Staphylococcus epidermidis
6. Staphylococcus saprophyticus
7. Streptococcus haemoiyticus
8. Streptococcus pyogenes
9. Acinetobacter calcoaceticus var. anitratus
10. Acinetobacter calcoaceticus var. lwoffii
11. Bordetella bronchiseptica
12. Brevundimonas diminuta
13. Burkholderia cepacia
14. Enterobacter agglomerans
15. Enterobacter cloacae
16. Enterobacter gergoviae
17. Enterobacter liquefaciens
18. Escherichia coli (Urinary)
19. Escherichia coli (Wound)
20. Flavobacterium meningosepticum
21. Hafnia alvei
22. Klebsiella oxytoca
23. Klebsiella pneumoniae
24. Morganella morganii
25. Proteus mirabilis
26. Proteus vulgaris
27. Pseudomonas aeruginosa
28. Pseudomonas fluorescens
29. Pseudomonas pseudomallei
30. Pseudomonas putida
31. Pseudomonas stutzeri
32. Serratia marcescens
33. Sphingomonas paucimobilis

**Gram Negative Clinical Isolates**
34. Actinobacillus pleuropneumoniae
35. Actinomyces pyogenes
36. Bacillus cereus
37. Bacteroides fragilis
38. Corynebacterium ammoniagenes (Brevibacterium ammoniagenes)
39. Bordetella bronchiseptica
40. Burkholderia pickettii
41. Campylobacter jejuni
42. Chryseomonas luteola
43. Corynebacterium pseudotuberculosis
44. Enterobacter aerogenes
45. Enterococcus faealis
46. Enterococcus faecium
47. Enterococcus hirae
48. Escherichia coli
49. Escherichia coli strain 0157:H7
50. Escherichia vulneris

**Other Bacteria**
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. zooepidemicus
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* (Sulf, 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 choleraeus* (Antibiotic Resistant)
93. *Enterobacteriaca 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 Resistant)
99. *Staphylococcus aureus* (Vancomycin Resistant VRSA)
100. *Staphylococcus aureus* (Vancomycin Resistant Intermediate VISA)
101. *Staphylococcus epidermidis* (Ampicillin and Drug Resistant)

**Human Virus**
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
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 Virus
127. Feline Calicivirus
128. Norovirus
129. Feline Infectious Peritonitis Virus
130. Infectious Bovine Rhinotracheitis (IBR) Virus
131. Newcastle Disease Virus
132. Porcine Parvovirus
133. Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)
134. Porcine Rotavirus
135. Pseudorabies Virus
136. Transmissible Gastroenteritis (TGE) Virus
137. T1 bacteriophage
138. T4 bacteriophage
139. Vesicular Stomatitis Virus (VSV)
140. Bovine Viral Diarrhea Virus (BVDV)
141. Avian Influenza Virus (H5N1)

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 unless otherwise noted below and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. SANTASTIC is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

Kills Pandemic 2009 H1N1 influenza virus (formerly called swine flu).

Kills Pandemic 2009 H1N1 influenza A 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:

Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. SANTASTIC is a broad-spectrum hard surface disinfectant that has been shown to be effective against (influenza A virus tested and listed on label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

This product has demonstrated effectiveness against (influenza A virus tested and listed on the label) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

Kills Pandemic 2009 H1N1 influenza virus (formerly called swine flu).

Kills Pandemic 2009 H1N1 influenza A virus.
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.

Disinfection/Fungicidal/Virucidal Directions:

Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces 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.

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

<table>
<thead>
<tr>
<th>Ounces of Product</th>
<th>Amount of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>½ ounce</td>
<td>1 quart</td>
</tr>
<tr>
<td>1 ounce</td>
<td>½ gallon</td>
</tr>
<tr>
<td>2 ounces</td>
<td>1 gallon</td>
</tr>
<tr>
<td>5 ounces</td>
<td>2 ½ gallons</td>
</tr>
<tr>
<td>10.0 ounces</td>
<td>5 gallons</td>
</tr>
<tr>
<td>20.0 ounces</td>
<td>10 gallons</td>
</tr>
</tbody>
</table>

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 (CaCO₃) 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.

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 and eye coverings.

CLEANING PROCEDURE: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

DISPOSAL OF INFECTIOUS MATERIALS: Blood and other 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 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 visibly dirty.

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 CaCO₃ 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.

**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 preclean 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 a contact time of 10 minutes.

**For Odors Caused by Dogs, Cats and Other Domestic Animals:** Use on rugs, floors, walls, tile, cages, 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 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.

**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 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.

**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. 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.
To Disinfect Food Service Establishment Food Contact Surfaces: Before using this product, food products and packaging materials must be removed from area or carefully protected. For countertops, exterior surfaces of appliances, (and) tables, 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 and rinse the surface with potable water.

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 Foggling: 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 for a minimum of 2 hours after fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. 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. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or 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. 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.

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 surfaces of 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 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, ventiliate 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: 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 the 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.

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 disinfecting solution at 2 ounces per gallon of water for a period of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

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 disinfecting solution at 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.

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 1 ½ gallons of this product to 2 ½ 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. Vacate the area of all personnel for a minimum of 2 hours after fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. 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. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus.

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. 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. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or 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. 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.

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.

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:

* Klebsiella pneumoniae
* Staphylococcus aureus

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 1 minute, then wipe with sponge, mop or cloth or allow to air dry.

**To Sanitize (and Deodorize):** Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces 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 1 minute. 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.

**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 (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 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.

**Special Instructions for Cleaning Carpet Against Odor Causing Bacteria:** This product may be used in industrial, institutional, commercial and residential 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.

**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.

**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 10 minutes. Follow with a through extraction. Dry rapidly and thoroughly.

**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. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. 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 then sanitized with an EPA approved food contact sanitizer.

**NOTE:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or 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. 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.**