



# NISUS DSV™

## Disinfectant • Sanitizer • Virucide

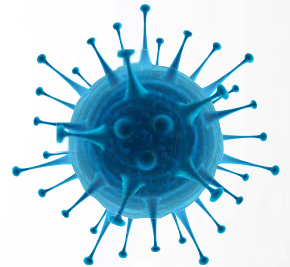
Nisus DSV is a broad spectrum disinfectant, sanitizer, virucide, mildewstat, fungicide and deodorizer that is labeled to kill dozens of strains of viruses and bacteria and as well as small flies. It effectively disinfects residential and commercial sites of possible labeled viruses and bacteria.

Nisus DSV comes in an economical concentrate that is diluted and applied by spraying, using a mop and bucket, heavy misting or by soaking. DSV can be used both for everyday cleaning as well as a wide variety of critical or emergency situations.

DSV is also labeled to kill the following pathogens on hard, nonporous surfaces:

- Human Coronavirus\*
- Hantavirus
- Hepatitis B Virus (HBV)
- Hepatitis C Virus (HCV Herpes Simplex) Type 1 Virus (ATCC VR260)
- HIV-1 (AIDS Virus)
- Influenza A/Brazil Virus
- Influenza A H1N1 Virus (Strain A/PR/8/34 and ATCC VR-1469)

Surfaces should remain wet with DSV for 10 minutes for effective control.



Eliminates harmful bacteria & viruses.

*\* EPA has determined that Nisus DSV is effective against SARS-CoV-2, the cause of COVID-19.*



# NISUS D | S | V

**disinfectant • sanitizer • virucide\***

**DISINFECTS AND SANITIZES HARD, NON-POROUS SURFACES  
HOME • INDUSTRIAL • HOSPITAL • FARM • FOOD HANDLING AND PROCESSING AREAS  
CONCENTRATE**

**ACTIVE INGREDIENTS:**

Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> )	
Dimethyl Benzyl Ammonium Chloride .....	2.20%
Octyl Decyl Dimethyl Ammonium Chloride .....	1.64%
Didecyl Dimethyl Ammonium Chloride .....	0.83%
Diocetyl Dimethyl Ammonium Chloride .....	0.83%
<b>OTHER INGREDIENTS:</b> .....	<b>94.50%</b>
<b>TOTAL</b> .....	<b>100.00%</b>

EPA Reg. No. 10324-80-64405 EPA Est. 64405-TN-1

MADE IN U.S.A.

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

**First Aid**

In case of emergency, call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**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.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**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.

**IF SWALLOWED:** 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. Call a poison control center or doctor immediately for treatment advice.

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

- Enterobacter aerogenes*
- Enterobacter cloacae*
- Enterococcus faecalis*
- Enterococcus faecium* VRE
- Escherichia coli*
- Klebsiella pneumoniae*
- Legionella pneumophila*
- Listeria monocytogenes*
- Pseudomonas aeruginosa*
- Salmonella enterica*
- Salmonella enterica subspecies enterica serovar Paratyphi B*
- Salmonella enterica subspecies enterica serovar Typhi*
- Serratia marcescens*
- Shigella dysenteriae*
- Shigella flexneri serotype 2B*
- Shigella sonnei*
- Staphylococcus aureus*
- Staphylococcus aureus* CA-MRSA
- Staphylococcus aureus* HA-MRSA
- Streptococcus pyogenes*

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not breathe spray mist. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and chemical-resistant gloves and protective clothing when handling. 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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, oysters, and shrimp.

**ORGANISM LIST**

**DISINFECTION PERFORMANCE:** This product kills the following bacteria in 10 minutes at 2 oz. per gal. of 400 ppm hard water (850 ppm active) and 5% soil on hard, non-porous surfaces:

- Acinetobacter baumannii*
- Burkholderia cepacia*
- Campylobacter jejuni*
- Corynebacterium ammoniagenes*

**MILDEWSTATIC PERFORMANCE:** This product controls the following mold/ mildew at 1.25 oz. per gal. of 400 ppm hard water (525 ppm active) and 5% soil on hard, non-porous surfaces for up to 7 days:  
*Aspergillus niger*

**VIRUCIDAL\* PERFORMANCE:** This product kills the following viruses in 10 minutes at 3 oz. per gal. of 400 ppm hard water (1275 ppm active) and 5% soil on hard, non-porous surfaces:

- Avian influenza A Virus
- Coronavirus
- Herpes Simplex Virus Type 1
- Herpes Simplex Virus Type 2
- Hepatitis B Virus
- Hepatitis C Virus
- Human Coronavirus
- HIV-1
- Influenza A
- Influenza A Virus
- Respiratory Syncytial Virus
- Rotavirus
- Vaccinia Virus

This product kills the following viruses in 10 minutes at 6oz. per gal. of 400 ppm hard water (2550 ppm active) and 5% soil on hard, non-porous surfaces:

- \*\*Hantavirus
- \*\*Norovirus

**ANIMAL PREMISE VIRUCIDAL\* PERFORMANCE:** This product kills the following viruses in 10 minutes at 3 oz. per gal. of 400 ppm hard water (1275 ppm active) and 5% soil on hard, non-porous surfaces:

- Avian influenza A Virus
- Canine Distemper Virus
- Canine Coronavirus
- Infectious Bovine Rhinotracheitis Virus
- Newcastle disease Virus
- Porcine Respiratory & Reproductive Virus
- Porcine Rotavirus
- Pseudorabies Virus
- Transmissible Gastroenteritis Virus

This product kills the following viruses in 10 minutes at 6 oz. per gal. of 400 ppm hard water (2550 ppm active) and 5% soil on hard, non-porous surfaces: \*\*Avian Infectious Bronchitis Virus

**NON-FOOD CONTACT SANITIZING PERFORMANCE:** This product is an effective one-step sanitizer in 1 minute at 3 oz. per gal. of 400 ppm water (1275 ppm active) and 5% soil on hard, non-porous surfaces: *Klebsiella pneumoniae*, *Staphylococcus aureus*

**FUNGICIDAL PERFORMANCE:** This product kills the following fungi in 10 minutes at 4 oz. per gal. of 200 ppm hard water (1700 ppm active) and 5% soil on hard, non-porous surfaces: *Candida albicans*, *Trichophyton interdigitale*

### LOCATIONS/SURFACES

This product is for use on hard, non-porous surfaces in:

- Airline terminals, airports, bus stations, train stations, transportation terminals, public facilities, shipping terminals, travel rest areas, waysides
- Automobiles, cars, trucks, campers, RVs, trailers, automotive garages, auto repair centers, bicycle shops
- Boats, ships, barges, cruise lines, cruise ships, watercraft
- Boxcars, tankers, and tank trucks
- Buses, public transportation, trains, taxis, airplanes, helicopters
- Delivery trucks, garbage trucks, maintenance vehicles
- EMS & fire facilities, emergency vehicles, ambulances, police cars, fire trucks
- Police stations, crime scenes, courthouses, correctional facilities, municipal government buildings, prisons, jails, penitentiaries, correctional institutions
- Recycling centers
- Athletic facilities, locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, field houses
- Banks, churches, libraries, post offices
- Campgrounds, playgrounds, recreational facilities, picnic facilities
- Day care centers, children's nurseries, kindergartens, and preschools
- Funeral homes, morgues, mortuaries, burial vaults, mausoleums, cadaver processing areas
- Health clubs, spas, tanning salons, tanning spas, tanning beds, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, foot spas, tattoo parlors. (Not for use on needles or other skin piercing instruments.)
- Hotels, motels
- Laundry, laundry facilities, washing machines, clothes washing machines, commercial laundries, coin-operated laundries, laundry cleaning facilities
- Museums, art galleries, performance/theater centers, movie houses, bowling alleys
- Schools, colleges, dormitories, classrooms, community colleges, universities
- Sports arenas, sports complexes
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms, photocopy centers
- Restaurants, bars, kitchens, taverns, cafeterias, institutional kitchens, fast food operations, food storage areas, catering, bakeries

- Veterinary, veterinary clinics, animal life science laboratories, animal laboratories, animal research centers, animal quarantine areas, animal holding areas, equine farms, kennels, animal breeding facilities, breeding establishments, animal husbandry establishments, grooming establishments, pet animal quarters, animal housing facilities, zoos, tack shops, pet shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities
- Businesses, office buildings, workstations, break rooms, public restrooms, housekeeping, janitorial rooms
- Commercial florist and flower shops
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities
- Factories, computer manufacturing sites, toy factories, warehouses
- Institutional, commercial, industrial, institutions, commercial sites, industrial sites, institutional facilities, public places
- Laboratories
- Basements, cellars, bedrooms, attics, garages, living rooms, and porches
- Bathrooms, restrooms, shower rooms, shower and bath areas
- Homes, households, condos, apartments, mobile homes, vacation cottages, summer homes
- Kitchens, bathrooms and other household areas
- Dairy, equine, poultry/turkey farms
- Farmhouses, barns, sheds, tool sheds, pens and stalls, swine quarters, livestock farms, equine quarters, brooder houses, seed houses and veal, calving, hog, cattle and horse operations, chick vans, egg trucks, hatchery and farm vehicles
- Federally inspected meat and poultry plants
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores, wineries
- Food handling and processing areas
- Food processing plants, USDA inspected food-processing facilities, federally inspected meat and poultry plants, egg processing plants, poultry and turkey farms, farms, dairy farms, hog farms, meat/poultry processing plants, mushroom farms, rendering plants, poultry and animal dressing plants, canneries, meat packing plants, hide and leather processing plants
- Poultry premises (Hatcheries):

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

- Processing facilities for fish, milk, citrus, wine, fruit, vegetable, ice cream and potato and beverage plants
- Swine premises:

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

- Tobacco plant premises
- Hospitals, nursing homes, medical and dental offices and clinics, healthcare facilities, physician offices, operating rooms/theaters, radiology rooms, isolation wards, quarantine areas, hospices, medical research facilities, washing areas, ICU areas, autopsy rooms, acute care institutions, alternate care institutions, home healthcare institutions, sick rooms
- Life care retirement communities, elder care centers, elder care facilities
- Patient care rooms & facilities, recovery rooms, Emergency Rooms, x-ray CAT labs, exam rooms, newborn nurseries, neonatal units, orthopedics, respiratory therapy, surgical centers, out-patient surgical centers, labs, blood collection rooms, central supply, housekeeping & janitorial rooms, ophthalmic/optometric facilities.

#### For use on:

- Countertops, counters, countertop laminates, stovetops, stoves, bathroom/kitchen sinks, tub surfaces, shelves, racks, carts, appliances, refrigerators, microwave ovens
- Floors, finished floors, high speed burnished floors, conductive flooring, walls, ceilings, fixtures

- Glass surfaces, aluminum, brass, copper, laminated surfaces, metal, plated steel, stainless steel, glazed porcelain, glazed tile; glazed ceramic, sealed granite, sealed marble, plastic such as polycarbonate, polyvinylchloride, polystyrene or polypropylene, sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome, Plexiglas®, enameled surfaces, painted/finished woodwork, Formica®, vinyl and plastic upholstery, washable wallpaper, windows, mirrors, painted surfaces
- Highchairs, baby cribs, diaper changing stations, infant bassinets/cribs/warmers/ incubators/care equipment, folding tables, hampers, laundry pails, empty diaper pails
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet seats, toilet bowls, toilet bowl surfaces, urinals, portable and chemical toilets and latrine buckets, vanity tops, and restroom fixtures, bathroom fixtures, bathroom bowls, basins, tubs
- Tables, chairs, desks, folding tables, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans/pails, trash barrels, trash cans, trash containers, industrial waste receptacles and garbage handling equipment, shelves, racks and carts, doorknobs and handles
- Sealed foundations, steps, plumbing fixtures, finished baseboards and windowsills
- And other hard, non-porous surfaces
- Automobile interiors, mats, crates, cabs, and wheels
- Commercial florist pots, flats and flower buckets, work areas and benches
- Crypton Barrier fabric
- Footbath surfaces
- Hair clippers, cutting implements, plastic rollers, washable nail files
- Hard hats, headphones
- Hard, non-porous surfaces of picnic tables and outdoor furniture
- Kennel runs, cages, kennel/cage floors, conductive flooring, examination tables, veterinary x-ray tables, loading platforms, animal equipment
- Large inflatable, non-porous plastic and rubber structures such as animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment
- Maintenance equipment
- Non-wooden picnic tables and outdoor furniture except cushions and wood frames
- Playground equipment
- Tanning spas/beds, tanning equipment
- Tattoo equipment (Not for use on needles or other skin piercing instruments)
- Telephones and telephone booths
- Ultrasonic baths, whirlpools, whirlpool bathtubs
- Waterbed conditioner (not for use in CA)
- Wrestling and gymnastic mats, athletic mats, athletic training tables, physical therapy tables, exercise equipment, athletic helmets, wrestling/boxing headgear, athletic shoe soles, and locker rooms
- Hard, non-porous non-food contact surfaces in food preparation and storage areas
- Hatchers, setters, trays, racks, egg flats, chick boxes, egg cases, vans and trash containers seed houses, poultry/turkey equipment, carts, sexing tables, and automated tray, rack and buggy washers, egg receiving and egg holding areas
- Harvesting & handling equipment
- Hide/leather processing surfaces such as hide storage bins, holding tanks, chill tanks, serpentine tanks and chains, machine and tannery equipment surfaces, conveyors and trolleys, hide press, grading and storage areas and scales
- Ice machines
- Meat packing plant surfaces such as livestock vehicles and holding pens, receiving areas and delivery chutes, slaughter areas and conveyors, hand, rub and guide rails, post knock cabinets, stands and flooring surfaces, chains and moving process lines, chutes, conveyors, tallow and animal feed production surfaces, processed product and offal equipment surfaces, fabrication and processing areas covering cold storage areas, stainless steel cut out and prep tables, and other stainless surfaces
- Tobacco plant equipment
- External lenses, vision correction devices including eyeglasses, protective eyewear, goggles, light lens covers, optical instruments/implements (Not for use on contact lenses.)
- Hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, hard, non-porous surfaces of cervical collars and neck braces, spine backboards, stretchers, unit stools, CPR training mannequins curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops, examination tables, x-ray tables, ambulance equipment/surfaces, medical equipment surfaces
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning, refrigeration equipment and heat pumps

## DISINFECTION MARKETING CLAIMS

- Can be used to disinfect, clean and deodorize terrarium and small animal cages, substrate and other hard, non-porous cage equipment. (Do not use on porous rocks, hot rocks, and driftwood.)
- Cleans, disinfects, and deodorizes hard, non-porous surfaces by killing odor-causing microorganisms and controlling mold and mildew.
- Cleans, disinfects and deodorizes hard, non-porous surfaces in one step with no rinsing required when use-directions for disinfection are followed.
- Disinfects hard, non-porous, non-food contact surfaces in one step with no rinsing required.
- Cleans, disinfects and deodorizes hard, non-porous surfaces such as flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails, design and packing benches, and countertops, and other areas where obnoxious odors develop.
- Cleans and disinfects non-medical (i.e., industrial and firefighting) respirators in industrial, commercial and institutional premises.
- Cleans, sanitizes and disinfects hard, non-porous surfaces of personal protective safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, hard hats, headphones, 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.)
- Cleans, sanitizes and disinfects hard, non-porous ambulance equipment and surfaces.
- Cleans, shines, deodorizes and disinfects all hard, non-porous non-food contact household surfaces.
- Delivers non-acid disinfection performance in an economical concentrate.
- Disinfects hard, non-porous athletic surfaces.
- Disinfects and sanitizes hard, non-porous non-food contact kitchen and bathroom surfaces.
- Has demonstrated effectiveness against Influenza A (H1N1) Virus.
- Is a concentrated hospital use disinfectant that is effective against a broad spectrum of bacteria, is virucidal\*, fungicidal and mildew static.
- Is a concentrated non-acid bowl and bathroom cleaner, which cleans, disinfects and deodorizes.
- Is a disinfectant and non-food contact surface sanitizer for cleanroom and laboratory areas to disinfect washable, hard, non-porous non-food contact surfaces such as: laminar-airflow equipment and BioSafety cabinet work surfaces and exterior surfaces of the following: countertops, sinks, plumbing fixture surfaces, and incubators, refrigerators and centrifuge surfaces of metal, stainless steel, glass, plastic, Formica®, and vinyl.
- Is a no-rinse disinfectant cleaner that disinfects, cleans, and deodorizes hard, non-porous, non-food contact surfaces in one labor-saving step.
- Is a one-step hospital-use germicidal disinfectant cleaner and deodorant odor neutralizer designed for general cleaning, and disinfecting, deodorizing and controlling mold and mildew on hard, non-porous non-food contact surfaces when use-directions for disinfection are followed.

- 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.
- 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 use-directions for disinfection are followed.
- Is a versatile cleaner, sanitizer and broad-spectrum disinfectant formulated for use on hard, non-porous bath and therapy equipment.
- Is a versatile disinfectant & sanitizer for veterinarian, veterinary practice, animal care, animal laboratory, and agricultural and farm premise applications.
- Is an effective fungicide against *Trichophyton interdigitale* (the athlete's foot fungus) when used on hard, non-porous surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities.
- Is for use in federally inspected meat and poultry plants on all hard, non-porous surfaces in inedible product processing areas, non-processing areas and/or exterior areas, federally inspected meat and poultry plants as a floor and wall cleaner for use in all departments, and federally inspected meat and poultry plants as a disinfectant agent for use in all departments.
- Is used to disinfect hard, non-porous salon/barber tools and instruments such as combs, clippers, plastic rollers, brushes, trimmers, razors, scissors, blades, tweezers, baths, manicure instruments, pedicure instruments, and footbath surfaces.
- Is a versatile sanitizer and broad-spectrum disinfectant formulated for use on hard, non-porous surfaces in Ultrasonic Baths.
- Kills Influenza A Virus.
- Kills bacteria and helps reduce cross-contamination on treated hard, non-porous non-food contact kitchen surfaces listed on this label.
- Kills germs†.
- Meets OSHA Bloodborne Pathogen Standard for HIV, HBV, and HCV.
- One-Step Non-Food Contact Surface Disinfectant
- Respiratory illnesses attributable Pandemic 2009 H1N1 (formerly called Swine Flu) are caused by Influenza A Virus. Is a broad-spectrum disinfectant that has been shown to be effective against Influenza A (H1N1) and other Influenza A viruses on hard, non-porous non-food contact surfaces.
- When used as directed, will disinfect metal clipper blades as well as many other hard, non-porous surfaces.

#### **SANITIZATION MARKETING CLAIMS**

- Is an effective one-step non-food contact sanitizer on hard, non-porous, non-food contact surfaces (150 ppm active)
- Kills 99.9% of household and institutional bacteria
- Sanitizes hard, non-porous kitchen and bathroom surfaces.

#### **HOUSEHOLD MARKETING CLAIMS**

- Is effective against household germs† and bacteria.
- Is great for use on kitchen, bathroom, floors and other household areas.
- For a cleaner, fresher household.

#### **GENERAL MARKETING CLAIMS**

- Antimicrobial
- Can be applied through foaming apparatus, and low-pressure sprayer systems. Follow manufacturers' instructions when using this equipment.
- Contains no phosphorous.
- Contains no abrasives, bleach, harsh acids, phosphates so it won't scratch surfaces.
- Formulated for use in mushroom farms.
- Formulated for use in poultry premises.
- Formulated for use in swine premises.
- Has been designed specifically for areas where housekeeping is of prime importance.
- Helps to maintain blades that operate with reduced friction and smoother clipping action.
- Is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

- Is designed for use in pet salons, animal hospitals, barber and beauty shops.
- Is effective against Citrus Canker and Bacterial Spot of Tomatoes through the treatment of handling, harvesting, storage, and transportation equipment.
- Is effective for the control of small flies on non-food contact surfaces such as 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.
- Is for larger areas such as operating rooms and patient care facilities.
- Is non-staining.
- Non-abrasive formula will not harm or scratch surfaces.
- Non-dulling formula eliminates the time and labor normally required for rinsing floors.
- Small fruit fly ovicidal treatment.
- Controls and prevents the growth of mold and mildew (*Aspergillus niger*) and the odors caused by them when applied to hard, non-porous surfaces.
- Use this product to treat hard, non-porous multi-touch surfaces that may be responsible for cross-contamination.
- Will not harm sealed stone, sealed grout, or glazed tile.
- Will not harm most surfaces.
- Will not leave grit or soap scum.

#### **CLEANING AND DEODORIZATION MARKETING CLAIMS**

- Eliminates odors leaving surfaces smelling clean and fresh.
- Cleans by removing dirt and food soils in food preparation and processing areas.
- 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.
- Cleans rodent soiled areas.
- Cleans without bleaching.
- Deodorizes moist hard, non-porous surfaces by killing microorganisms that cause offensive odors.
- Is a cleaner and odor-neutralizer designed for disinfecting, and controlling mold and mildew on hard, non-porous surfaces.
- Is a floor cleaner.
- Is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and greenhouses.
- Is for use as a cleaner/deodorizer on rugs, floors, walls, tile, cages, crates, mats, litter boxes, floor coverings, or any hard, non-porous surfaces soiled by a pet.
- Is formulated to provide effective cleaning strength that will not dull high gloss floor finishes with repeated use.
- Is for use in work areas such as tool rooms and garages for odor control and light duty cleaning.
- Is particularly effective in inhibiting the growth of ammonia producing organisms, such as *Corynebacterium ammoniagenes*, which acts on urine in the diapers to produce ammonia.
- Neutralizes musty odors and tough odors from smoke, pet accidents, and spills on contact.
- Provides effective cleaning strength that will not dull most metal-interlock floor finishes and does not require a rinse prior to recoat.
- Provides long lasting freshness against tough odors such as odors from litter boxes and pet accidents.

#### **PACKAGING CLAIMS**

- Concentrated
- Easy to use

† Kills **Escherichia coli**, *Salmonella enterica*, *Staphylococcus aureus*, Avian Influenza A Virus and Norovirus.

#### **DIRECTIONS FOR USE**

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

Please read entire label and use strictly in accordance with precautionary statements and directions.

Before using this product in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

This product is not for use on medical device surfaces.

Use	Dilution	Contact Time
For Bactericidal Hospital or Medical Environment Disinfectant claims	2 oz./gal. water	10 minutes
For General Bactericidal Disinfectant claims	2 oz./gal. water	10 minutes
For Public Health Virucidal* claims	3 oz./gal. water	10 minutes
**For Norovirus claims	6 oz./gal. water	10 minutes
**For Hantavirus claims	6 oz./gal. water	10 minutes
For Animal Virucidal* claims	3 oz./gal. water	10 minutes
**For Avian Infectious Bronchitis Virus claims	6 oz./gal. water	10 minutes
For Non-Food Contact Sanitizing claims	3 oz./gal. water	1 minute
For Fungicidal claims	4 oz./gal.	10 minutes
For Mildewstatic claims	1.25 oz./gal. water	7 days

**HOSPITAL/HEALTH CARE/MEDICAL/NON-MEDICAL FOR USE AS A GENERAL HOSPITAL, MEDICAL BACTERICIDAL DISINFECTANT, DEODOIZER:**

1. Pre-clean visibly soiled areas.
2. Apply use solution of 2 oz. of this product per gal. of water (850 ppm active) to disinfect hard, non-porous, non-food contact surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
3. Treated surfaces must remain wet for 10 minutes.
4. Wipe dry with a clean cloth or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.
5. Prepare a fresh solution daily or when visibly dirty.

**FOR USE AS A ONE-STEP NON-FOOD CONTACT SURFACE BACTERICIDAL DISINFECTANT:**

1. Pre-clean visibly soiled areas.
2. Apply use solution of 2 oz. of this product per gal. of water (850 ppm active) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
3. Treated surfaces must remain wet for 10 minutes. Rinse with potable water after use on surfaces that come in contact with food.
4. Wipe dry with a clean cloth or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.
5. Prepare a fresh solution daily or when visibly dirty.

**TO KILL VIRUSES\*:** Pre-clean visibly soiled surfaces. Prepare use solution by adding 3 oz. of this product per gal. of water (1275 ppm active). Apply use solution to hard, non-porous surfaces. Allow surface to remain wet for 10 minutes. Wipe surfaces (and let air dry).

**TO KILL NOROVIRUS\*\*:** Pre-clean visibly soiled surfaces. Prepare use solution by adding 6 oz. of this product per gal. of water (2550 ppm active). Apply use solution to hard, non-porous surfaces. Allow surface to remain wet for 10 minutes. Wipe surfaces (and let air dry).

**BLOODBORNE PATHOGEN INSTRUCTIONS:**

**\*KILLS HIV, HBV AND HCV ON PRE-CLEANED HARD, NON-POROUS 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 hard, non-porous surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1)(associated with AIDS), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV).

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

**Personal Protection:** Wear protective latex gloves, gowns, masks and eye protection.

**Cleaning Procedure:** Blood and other body fluids containing HIV-1, HBV & HCV must be thoroughly cleaned from hard, non-porous 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:** Allow hard, non-porous surface to remain wet for 10 minutes to kill all viruses and bacteria listed on the label.

**SURGICAL INSTRUMENT DISINFECTANT PRESOAK:** Mix 2 oz. of this product per gal. of water (850 ppm active). Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure.

**Note:** Plastic instruments can remain immersed until sterilization procedure. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle until sterilization procedure. Prolonged soaking will cause damage to metal instruments. Surgical instruments must be sterilized before use. Prepare a fresh solution daily or when visibly dirty.

**ULTRASONIC BATH DISINFECTANT DIRECTIONS:** Pre-clean visibly soiled areas. Use this product to disinfect hard, non-porous non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 2 oz. of this product per gal. of water (850 ppm active) directly into bath chamber. Place objects into unit and operate according to manufacturers' use directions for a minimum of 10 minutes. Remove objects and rinse with water. Allow to air dry. Prepare a fresh solution daily or when visibly dirty.

**FOR DISINFECTING USE ON HARD, NON-POROUS BATH AND THERAPY EQUIPMENT:** Drain the water from the unit. Pre-clean visibly soiled surfaces. Prepare a use solution by adding 2 oz. of this product per every gal. of water (850 ppm active). Refill the unit with the use solution to just cover the intake valve. Briefly start the pump to circulate the solution. Turn off pump. Wash down the unit sides, seat of the chair lift, and all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solution from the unit and rinse surfaces with fresh water. The unit is ready for reuse.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT:** Pre-clean equipment if visibly soiled to ensure proper surface contact. Prepare a use solution by adding 2 oz. of this product per gal. of water (850 ppm active). Gently mix for uniform use solution. Apply use solution to surfaces of the respirator with a sponge, brush, cloth, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. Treated surfaces must remain wet for 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). Prepare a fresh solution daily or when visibly dirty.

**GENERAL DISINFECTION**

**FOR USE AS A GENERAL DISINFECTANT AGAINST BACTERIA ON HARD, NON-POROUS SURFACES:**

1. Pre-clean visibly soiled areas.
2. Apply use solution of 2 oz. of this product per gal. of water (850 ppm active) to hard, non-porous, non-food contact surfaces using a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray

- device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
- Treated surfaces must remain wet for 10 minutes.
  - Wipe dry with a clean cloth or allow to air dry.
  - Prepare a fresh solution daily or when visibly dirty.

**FOR USE AS A ONE-STEP NON-FOOD CONTACT GENERAL DISINFECTANT AGAINST BACTERIA ON HARD, NON-POROUS SURFACES:**

- Pre-clean visibly soiled areas.
- Apply use solution of 2 oz. of this product per gal. of water (850 ppm active) to hard, non-porous surfaces using a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
- Treated surfaces must remain wet for 10 minutes. Rinse with potable water after use on surfaces that come in contact with food.
- Wipe dry with a clean cloth or allow to air dry.
- Prepare a fresh solution daily or when visibly dirty.

**SANITIZING**

**NON-FOOD CONTACT SURFACE SANITIZING DIRECTIONS**

**NON-FOOD CONTACT SURFACE SANITIZING DILUTION TABLE:**  
To prepare a 150 ppm or 1275 ppm solution use the following dilution table. Prepare the correct dilution rate based upon the appropriate use site.

**NON-FOOD CONTACT SANITIZING DILUTION TABLE**

Use	Dilution	Contact Time
For Non-Food Contact Surface Sanitizing claims at	3 oz./gal. water	1 minute

**NON-FOOD CONTACT SURFACE SANITIZING:** Pre-clean visibly soiled surfaces. Add 3 oz./ gal. water. Apply solution to hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 1 minute. Prepare a fresh solution daily or when visibly dirty.

**ULTRASONIC BATH SANITIZER DIRECTIONS:** Pre-clean visibly soiled surfaces. Use this product to sanitize hard, non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 3 oz./gal. water directly into bath chamber. Place objects into unit and operate for a minimum of 1 minute. Remove objects and rinse with water. Allow to air dry. Prepare a fresh solution daily or when visibly dirty.

**Note:** This product in its use solution is compatible with stainless steel, aluminum and most other hard, non-porous surfaces. Before product use, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

**SANITIZATION OF HARD, NON-POROUS SURFACES ON**

**PERSONAL PROTECTIVE EQUIPMENT:** Add 3 oz./gal. water. Gently mix for uniform solution. Apply solution to surfaces of the respirator with a sponge, brush, cloth, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Thoroughly wet surfaces to be sanitized. Treated surfaces must remain wet for 1 minute. Remove excess solution from equipment prior to storage. Prepare a fresh solution daily or when visibly dirty.

**SHOE BATH SANITIZER DIRECTIONS:** To reduce cross-contamination on treated surfaces from area to area, shoe baths containing one inch of freshly made sanitizing solution must 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 a solution of 3 oz./gal. water allow to remain wet for 1 minute prior to entering area. Prepare a fresh solution daily or when visibly dirty.

**SHOE FOAM DIRECTIONS:** To reduce cross-contamination on treated surfaces from area to area supply a foam layer approximately 0.5 to 2 inches thick made from a solution of 3 oz./gal. water 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 manufacturer of the

foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area or allow to remain wet for 1 minute prior to entering area. Foam area must be washed and replaced daily or when it appears visibly soiled or dirty.

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

**ENTRYWAY SANITIZING SYSTEMS:** To reduce cross contamination from area to area, set the system to deliver a use solution of 3 oz./gal. water. The spray/foam must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives with the sanitizing solution.

**FOOD PROCESSING PREMISES**

**FOR USE AS A BACTERICIDAL DISINFECTANT IN FOOD PROCESSING PLANTS/PREM-ISES, TOBACCO PREMISES, FOOD SERVICE ESTABLISHMENTS AND FOOD STORAGE AREAS AND EQUIPMENT:**

- Pre-clean visibly soiled areas.
- Apply use solution of 2 - 3 oz. of this product per gal. of water to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray.
- Treated surfaces must remain wet for 10 minutes.
- Wipe dry with a clean cloth or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.
- When disinfecting surfaces that come in contact with food, rinse surfaces thoroughly with potable water. This product must not be used to clean the following surfaces: utensils, glassware, dishes or interior surfaces of processing equipment.

**Note:** All surfaces that come in contact with food, such as appliances and kitchen countertops, must be rinsed with potable water after treatment. Do not use this product to clean or disinfect glassware, utensils, dishes, or interior surfaces of appliances.

**FOR DISINFECTING POTATO STORAGE AREAS:** Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean visibly soiled surfaces prior to application. Saturate surfaces with a solution of 2 - 3 oz. of this product per gal. of water and scrub to loosen all soils. Surfaces must remain wet for 10 minutes, and then be thoroughly rinsed with potable water before operations are resumed.

**FOR DISINFECTING RENDERING PLANTS:** To disinfect hard, non-porous equipment, utensils, walls and floors in poultry and animal rendering plants. Remove all heavy soils prior to application. Saturate surfaces with a solution of 2 - 3 oz. of this product per gal. of water and scrub to loosen all soils. Surfaces must remain wet for 10 minutes, and then be thoroughly rinsed with potable water before operations are resumed.

**FUNGICIDAL/MOLD/MILDEW**

**TO KILL FUNGI:** Pre-clean visibly soiled hard, non-porous surfaces. Prepare use solution by adding 4 oz. of this product per gal. of water. Apply use solution to hard, non-porous surfaces. Allow surface to remain wet for 10 minutes. Wipe surfaces (and let air dry).

**TO CONTROL MOLD/MILDEW:** Pre-clean visibly soiled hard, non-porous surfaces. Pre- pare use solution by adding 1.25 oz. of this product per gal. of water. Apply use solution to hard, non-porous surfaces which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every seven days, or more often if new growth appears.

**TO CONTROL THE GROWTH OF MOLD AND MILDEW ON HARD, 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, and other hard, non-porous surfaces. Thoroughly clean surfaces with soap or detergent and rinse with water. Prepare a use solution of 1.25 oz. of this product per gal. of water. Apply use solution by sponge, brush, cloth, mop, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Do not use equipment until treatment

has been absorbed, set or dried. Repeat treatment every seven days, or more often if new growth appears.

#### **TO CONTROL THE GROWTH OF MOLD AND MILDEW ON LARGE, INFLATABLE, NON-POROUS PLASTIC AND RUBBER STRUCTURES:**

For use on non-porous plastic and rubber surfaces such as inflatable animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment. Thoroughly clean surfaces with soap or detergent and rinse with water. Apply a use solution of 1.25 oz. of this product per gal. of water by sponge, brush, cloth, mop, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Do not use equipment until treatment has dried. Repeat treatment every seven days, or more often if new growth appears.

### **ANIMAL PREMISES**

Prior to use of this product, remove all animals and feeds from areas to be treated, animal transportation vehicles and enclosures. 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 surfaces with soap or detergent and rinse with water.

**FOR USE AS AN ANIMAL PREMISE DISINFECTANT/VIRUCIDE\*:** Prepare a use solution of 3 oz. of this product per gal. of water (1275 ppm active).

**FOR USE AVIAN INFECTIOUS BRONCHITIS VIRUS\*\*:** Prepare a use solution of 6 oz. of this product per gal. of water (2550 ppm active).

**FOR USE AS AN ANIMAL PREMISE FUNGICIDE:** Prepare a use solution of 4 oz. of this product per gal. of water (1700 ppm active).

Apply use solution to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Immerse all halters and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in the use solution. Treated surfaces must remain wet for 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 treated equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

**FOR HATCHERY DISINFECTION/VIRUCIDE\*:** Use to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard, non-porous surfaces. Use 3 oz. of this product per gal. of water. Leave all treated surfaces wet for 10 minutes or more. Allow to air dry.

**FOR VEHICLE DISINFECTION/VIRUCIDE\*:** To clean hard, non-porous surfaces on vehicles including mats, crates, cabs, and wheels, use 3 oz. of this product per gal. of water. Apply use solution to hard, non-porous surfaces on vehicles. Leave treated surfaces wet for 10 minutes. Allow to air dry.

**TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION/VIRUCIDE\*:** Animals frequently defecate on rocks and other hard, non-porous 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. (Do not use on porous rocks, hot rocks, and driftwood.)

1. Remove all animals.
2. Thoroughly clean surfaces and objects including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all hard, non-porous surfaces with the disinfecting and virucidal\* solution of 3 oz. of this product per gal. of water (1275 ppm active) so as to wet thoroughly.
4. Apply by cloth, mop, brush, sponge, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. For smaller surfaces, use a trigger spray bottle to spray surfaces with solution.
5. Allow surfaces to remain wet for a period of 10 minutes.

6. 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.
7. Thoroughly scrub all treated surfaces (except gravel) with soap or detergent and rinse with potable water before reuse.
8. Do not return animals to the habitat until it is dry and ventilated.
9. Clean terrarium at least once weekly or more as needed. Change cloth, sponge or towels frequently to avoid redeposition of soil.
10. Prepare a fresh solution daily or more often if use solution becomes visibly soiled or dirty.

**Note:** Substrates for desert terrariums (i.e., gravel) must be completely dry before re- turning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists. Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately.

#### **REPTILE TANK CLEANING AND DISINFECTION/VIRUCIDE\***

**DIRECTIONS:** Remove all reptiles from the enclosure prior to cleaning and disinfecting. Remove all litter or drip- pings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean surfaces with soap or detergent and rinse with water. Apply disinfecting and virucidal\* solution of 3 oz. of this product per gal. of water (1275 ppm active) to hard, non-porous surfaces of the enclosure. Apply by cloth, mop, brush, sponge, by immersion, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Allow surfaces to remain wet for 10 minutes. Wipe dry. Rinse surfaces that come in contact with food with potable water before reuse. Allow the enclosure to ventilate for a minimum of 10-15 minutes before replacing the reptiles. Prepare a fresh solution daily or when visibly dirty.

**Note:** Do not apply this product directly onto the reptile. If this product comes into contact with the reptile's skin, then immediately wash the material off of the animal with lukewarm water. If the reptile ingests this product, contact your veterinarian immediately.

#### **SANITIZER DIRECTIONS FOR HARD, NON-POROUS NON-FOOD CONTACT SURFACES IN ANIMAL PREMISES**

**TO SANITIZE HOOF TRIMMING EQUIPMENT:** Prior to application, pre-clean hoof trimming equipment before and after use on each animal with detergent and warm water or compatible cleaner to remove soil using a pre-scrape, pre-flush, or when necessary, pre-soak followed by a potable water rinse. To sanitize, add 3 oz. of this product per gal. of water (1275 ppm active) and apply to hard, non-porous trimmer surfaces with a sponge, brush, cloth, by immersion, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Treated surfaces must remain wet for 1 minute. Prepare a fresh solution daily or when visibly dirty.

### **FOGGING**

#### **FOGGING IN FOOD PREMISES ALL SURFACES MUST BE CLEANED AND DISINFECTED IN ACCORDANCE WITH LABEL DIRECTIONS PRIOR TO FOGGING.**

**CLEANING IN DAIRIES, BEVERAGE AND FOOD PROCESSING PLANTS USING FOGGING DEVICES:** Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After disinfecting, fog desired areas using 0.5 quart per 1,000 cubic feet of room area with a solution containing 3 oz. of product per gal. of water (1275 ppm active). Do not breathe spray mist. Wear a minimum of NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter when mixing the use solution and pouring it into the fogging apparatus. Higher level respirators that are NIOSH approved for particulates can also be used. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. When fogging is complete, ventilate buildings and other closed spaces. All surfaces that come in contact with food must be rinsed with potable water and then sanitized with an EPA approved food contact sanitizer solution prior to use.

**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 minimum of a filtering face piece NIOSH approved respirator (TC-84A) with any N filter, goggles, long sleeves, gloves and long pants. Higher level respirators that are NIOSH approved for particulates can also be used.

#### FOGGING IN POULTRY HOUSES

##### ALL SURFACES MUST BE CLEANED AND DISINFECTED IN ACCORDANCE WITH LABEL DIRECTIONS PRIOR TO FOGGING.

#### CLEANING OF INCUBATORS AND HATCHERS USING FOGGING DEVICES:

Only for fogging of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs. Mix 36 oz. of this product per gal. of water. Do not breathe spray mist. Wear a minimum of NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter when mixing the use solution and pouring it into the fogging apparatus. Higher level respirators that are NIOSH approved for particulates can also be used. Fog 3-8 oz. of this solution 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. Do not allow people to contact or breathe this fog. It is acceptable to fog setters and hatchers with a 4 oz. of this product per gal. of water solution 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. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. When fogging is complete, ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers, and other fogged equipment with soap or detergent, and rinse with potable water before reuse.

**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 Do not breathe spray mist. Wear a minimum of NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter, goggles, gloves, long sleeves and long pants. Higher level respirators that are NIOSH approved for particulates can also be used.

#### BARBER/SALON

**FOR USE AS A DISINFECTANT, VIRUCIDE\*, FUNGICIDE OF GROOMING CLIPPERS, HAIR CLIPPERS, ELECTRIC SHEARS, BARBER/SALON SHEARS AND OTHER IMPLEMENTS:** Remove hair, dandruff and dust particles prior to disinfecting the blades. While clipper/shear is running, hold in the downward position and spray with a use solution of 4 oz. of this product per gal. of water. Do not spray on the clipper case or drip into clipper housing. Immerse pre-cleaned barber/salon tools such as combs, brushes, razors, clipper and/or trimmer, manicure/pedicure tools, scissors, and other salon instruments and tools in a use solution of 4 oz. of this product per gal. of water for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution daily or when visibly dirty.

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

#### RESTROOM/BATHROOM

##### NON-ACID TOILET BOWL AND URINAL DISINFECTANT/CLEANING DIRECTIONS:

Remove heavy soil prior to disinfection.

**From a Concentrate:** Add 2 oz. of this product directly into the water in the toilet bowl. Brush thoroughly over exposed surfaces and under the rim with a toilet brush, mop, cloth, or sponge. Allow solution to stand for 10 minutes and flush.

**From a Use Solution:** Empty water out of toilet bowl or urinal and apply a use solution prepared by adding 2 oz. of this product per gal. of water (850 ppm active) to exposed surfaces, including under the rim

with a toilet brush, mop, cloth, or sponge, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Brush or swab thoroughly, then allow solution to stand for 10 minutes and flush.

#### FOR HEAVY DUTY CLEANING OF TOILET BOWLS AND URINALS:

Pre-clean visibly soiled areas. Empty toilet bowl or urinal and apply a use solution of 4 oz. of this product per gal. of water to exposed surfaces including under the rim with toilet brush, mop, cloth, or sponge, or mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For sprayer application, spray 6-8 inches from surface. Do not breathe spray. To aid in soil removal, allow to soak. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush.

**CLEANING/DISINFECTING URINALS:** Pre-clean visibly soiled surfaces. Remove and properly dispose of cartridge according to manufacturer's directions. Deep clean or disinfect the entire urinal by applying a use solution of 2 oz. of this product per gal. of water directly onto surface. Brush or Scrub surfaces and let solution stand for 10 minutes. Wipe surface to clean. Change cartridge as needed. The unit is ready for use.

**TO CLEAN WATERFREE URINALS:** Remove any debris from the urinal. Spray 0.5 to 1 oz. of use solution onto urinal surface. To prepare use solution: Add 2 oz. of this product per gal. of water (850 ppm active). DO NOT spray product directly onto cartridge. Wipe surface to clean. Change cartridge as needed. The unit is ready for use.

**TO DISINFECT TUBS, SHOWER STALLS, SINKS, AND FAUCETS:** Pre-clean visibly soiled area. Apply a use solution of 2 oz. of this product per gal. of water on all hard, non-porous surfaces with a brush, cloth, mop, sponge, hand pump trigger spray device, coarse trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Allow surface to remain wet for at least 10 minutes. Wipe up excess liquid on surfaces or allow to air dry. Change cloth, sponge or towels frequently to avoid redeposition of soil. Prepare a fresh solution daily or when visibly dirty.

#### FOR USE TO CLEAN AND DISINFECT SHOWER ROOMS, LOCKER ROOMS AND OTHER LARGE, OPEN AREAS WITH FLOOR DRAINS:

1. Pre-clean visibly soiled areas.
2. Apply a use solution of 2 oz. of this product per gal. of water (850 ppm active) to hard, non-porous surfaces including floors, walls and ceilings making sure not to over spray. To disinfect, hard, non-porous surfaces must remain wet for 10 minutes.
3. Scrub using a deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.
5. Prepare a fresh solution daily or when visibly dirty.

#### DEODORIZATION/CLEANING

**FOR USE AS A CLEANER AND/OR DEODORIZER:** Prepare use solution of 1.25 - 4 oz. of this product per gal. of water and apply to hard, non-porous surfaces. Wipe up excess liquid and and/or allow to air dry. For heavy-duty use, apply 4 oz. of this product per gal. of water to clean hard, non-porous surfaces.

**GENERAL DEODORIZATION:** To deodorize, apply 1.25 - 4 oz. of this product per gal. of water to hard, non-porous surfaces. Wipe up excess liquid and or allow to air dry.

**FOR DEODORIZING SEPTIC STORAGE TANKS:** Pre-clean visibly soiled areas. When tanks are empty, pour 1.25 oz. of this product for every gal. of water in tank on recreational vehicles, campers and boats to control odors. As tank fills with sewage and the vehicle is moving, this solution will mix and provide an adequate deodorizing solution for this use. This product is to be used on gray and black water tanks only. Check with local, state, or federal authorities before disposing of sewage in accordance to federal, state and local regulations for waste disposal. (Not for use in CA.)

**RV HOLDING TANKS/RECREATIONAL VEHICLES:** For toilet waste and holding tanks, cover bottom of holding tank with water and add 1.25 - 2 oz. of this product per gal. of water to deodorize. If odors return before time to empty, add another 1.25 - 2 oz. of this product per gal. of water to the tank. For kitchen waste, add 1.25 - 2 oz. of this product per gal. of water to gray water tank as needed to control malodors created by dirty dish- water. (Not for use in CA.)

**AUTOMOTIVE USES:** A solution of 1.25 oz. of this product per gal. of water will effectively neutralize odors. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from

tobacco, food, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Wipe up excess liquid or allow to air dry. (Not for use in CA.)

**AIR FRESHENER:** A solution of 1.25 oz. of this product per gal. of water will effectively neutralize odors caused by mildew in storage areas, basements, closets, bathrooms and A/C filters. Spray to eliminate odors from tobacco, food, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Wipe up excess liquid or allow surface to air dry. (Not for use in CA.)

**WATERBED CONDITIONER** (not for use in CA): When used as a waterbed conditioner, this product eliminates odor. If bed has not been treated properly, drain bed completely. Add 15 gal. of water, mix vigorously, drain bed again. Fill bed with water and follow dosage directions.

**Dosage:** To eliminate odor, add 10 oz. of this product in a waterbed of 90 to 180 gal. capacity. Repeat application every 4 to 6 months.

**GLASS CLEANING/DEODORIZING DIRECTIONS:** Use a use solution of 1.25 – 4 oz. of this product per gal. of water to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Rub with sponge or cloth. Change cloth, sponge or towels frequently to avoid re-deposition of soil.

**FOR ODORS CAUSED BY PETS:** Use a solution of 1.25 - 4 oz. of this product per gal. of water on rugs, floors, walls, tile, cages, crates, litter boxes, mats, floor coverings, or any surface soiled by a pet. Spray to eliminate odors from pets using a coarse spray device. Do not breathe spray. Wipe up excess liquid or allow surface to air dry. (Not for use in CA.)

**FOR USE AS A CLEANER ON FINISHED FLOORS:** To limit gloss reduction, use 1.25 – 4 oz. of this product per gal. of water. Apply with a damp mop or auto scrubber. Allow surface to air dry.

#### CARPET CLEANING

**SPECIAL INSTRUCTIONS FOR CLEANING CARPETS:** This product can be used to clean carpets in industrial, institutional, commercial and residential areas such as homes, motel & hotel chains, nursing homes, schools and hospitals. 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 2 oz. of this product per gal. of water.

**For Truck Mounted Extraction Machines:** Mix 2 - 4 oz. of this product per gal. of water and meter at 4 gal. per hour.

**For Rotary Floor Machines:** Mix 4 oz. of this product per gal. of water and apply at the rate of 300-500 sq. ft. per gal. 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 CLEANING/DEODORIZING (Not for use in CA.) FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE:** This product cleans and deodorizes the carpet. It can be used in industrial, institutional, commercial and residential areas such as homes, motels, hotel chains, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 2 oz. of this product per gal. of water. Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 4 oz. of this product per gal. of water and spray on carpet at a rate of 300-500 sq. ft. per gal.

Use this product on washable synthetic fibers. Do not use on wool. Test color fastness of carpet before use. Apply diluted product to a small concealed spot, then rub with a clean white cloth. If color changes or transfers to the cloth, a water-based product must 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 must not be mixed with other cleaning products.

## WATER AND SMOKE DAMAGE RESTORATION

**SEWER BACKUP & RIVER FLOODING:** To use as a deodorizer, dilute 2 - 4 oz. of this product per gal. of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a mechanical spray device, hand pump trigger spray device, coarse trigger spray device before and after cleaning and extraction. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Use proper ventilation; open windows. (Not for use in CA.)

**CARPETS, CARPET CUSHIONS, UPHOLSTERY, DRAPES AND OTHER POROUS MATERIALS, SUB FLOORS, DRYWALL, TRIM AND FRAME LUMBER, TACKLESS STRIP AND PANELING:** To use as a deodorizer against water damage, extract the excess water. Test hidden area for colorfastness. Dilute 2 - 4 oz. of this product per gal. of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a mechanical spray device, hand pump trigger spray device, coarse trigger spray device to fully saturate affected materials. For spray applications, spray 6-8 inches from surface. Do not breathe spray. Roll, brush or agitate into materials. Follow with a thorough extraction. Dry rapidly and thoroughly. (Not for use in CA.)

**WATER AND SMOKE DAMAGE RESTORATION:** Effective against odor caused by smoke and water damage for home, institutional, industrial and hospital use. This product is particularly suitable for use in water damage restoration. Dilute 2 - 4 oz. of this product per gal. of water, allowing for the diluting effect of absorbed water within saturated materials. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation. (Not for use in CA.)

## OTHER USES

**DISINFECTION/VIRUCIDE\* OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:** After using the whirlpool unit, drain unit. Prepare a use solution of 3 oz. of the product per gal. of water and refill with use 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 other 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 disinfected surfaces with fresh water. Wipe dry with a clean sponge or cloth or allow to air dry. Repeat for heavy soiled units.

**SANITIZATION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:** To remove body oils, dead tissue, soil and all other buildups or organic matter on surfaces after using the whirlpool unit, drain and refill with a solution of 3 oz. of this product per gal. of water (1275 ppm active) 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 other related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 1 minute. After the unit has been thoroughly sanitized, drain the solution from the unit and rinse all with fresh water. Repeat for heavy soiled units. Then the unit is ready for reuse.

**FOR DISINFECTING BAGLESS VACUUM CLEANERS:** Turn off and unplug vacuum cleaner. Remove the hard, non-porous container that houses collected material from the vacuum cleaner. Empty contents into a waste receptacle. Rinse collection container with water and wipe clean to remove any additional collected material. Prepare a use solution of 2 oz. of this product per gal. of water and apply use solution to collection container with a brush, cloth, mop, sponge, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For sprayer applications, spray 6-8 inches from surface. Do not breathe spray. Allow surfaces to remain wet for 10 minutes. Wipe up excess liquid with a clean cloth or sponge or allow to air dry. Reattach container to vacuum cleaner.

**FOR DISINFECTING NON-POROUS VACUUM CLEANER BRUSHES:** Turn off and unplug vacuum cleaner. Remove the non-porous brushes from vacuum cleaner. Prepare a use solution of 2 oz. of this product per gal. of water and submerge brush in use solution so as to wet surfaces thoroughly. Allow surfaces to remain wet for 10 minutes. Wipe up excess liquid with a clean cloth or sponge or allow to air dry. Reattach brushes to vacuum cleaner.

**FOR CONTROL OF DROSOPHILA SPP. AND PHORIDAE FAMILY OF FLIES ON NON-FOOD CONTACT SURFACES:** To control flies on

hard, non-porous non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, bars, kitchens, dishwashing areas, and bar and wait station areas and other food storage areas. After removing gross filth, apply a solution of 1.1 oz. of this product per gal. of water to surfaces and locations where flies breed. Spray surfaces thoroughly or apply by pouring, mopping or sponging onto the surface. Allow surface to remain wet for 10 minutes. 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 1.1 oz. of this product per gal. of water (450 ppm active) into the drain during time of lowest level of drain use. Add 14 oz. of use solution daily to each drain to maintain fly control. Apply product around the edge of the drain and thoroughly coat inside of drain. Repeat application 1-2 times per week or as needed. Do not contaminate food and food packaging.

#### MUSHROOM FARM INDUSTRY USE DIRECTIONS

**Site Preparation:** The first step in any ongoing sanitation program must 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:** For visibly soiled areas, pre-clean first. Use 2 oz. of this product per gal. of water use solution. Wet all hard, non-porous surfaces thoroughly. Treated surfaces must remain wet for 10 minutes. Let air-dry. Prepare a fresh solution for each use.

**For Heavy Duty Cleaning:** When heavy duty cleaning is desired, use 4 oz. of this product per gal. of water. Heavily soiled areas will 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.

**WORK AREAS AND BENCHES, POTS, FLATS AND FLOWER BUCKETS, CUTTING TOOLS:** Pre-clean surfaces. Spray hard, non-porous working surfaces or soak cutting edge of tool with a solution of 2 oz. of this product per gal. of water before each work period and again after each plant is completed to help control transfer of diseases such as *Botrytis*, crown rot, downy mildew, *Erwinia* and root rot†. Allow surface to remain wet for 10 minutes. To apply solution as a sprayer application, use as a coarse spray only and spray 6-8 inches from surface. Do not breathe spray. Wipe up excess liquid or allow to air dry. Dry and oil tools at the end of each workday. Prepare a fresh solution daily or when visibly dirty. (†Not for use in CA.)

**FLORIST USE DIRECTIONS:** To clean, disinfect and deodorize hard, non-porous surfaces, prepare use solution of 2 oz. of this product per gal. of water. For heavy-duty use, add 4 oz. of this product per gal. of water. Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard, non-porous surfaces, thoroughly wetting surfaces as required, with a cloth, mop, brush, sponge, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For sprayer applications, spray 6-8 inches from surface. Do not breathe spray. Rub with brush, sponge, mop or cloth. Treated surfaces must remain wet for 10 minutes. Wipe up excess or allow to air dry. Change cloth, sponge or towels frequently to avoid re-deposition of soil. Prepare a fresh solution daily or when visibly dirty.

#### SPECIAL INSTRUCTIONS FOR CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES WHICH MAY BE

**CONTAMINATED WITH HANTAVIRUS\*\*:** Infection with Hantavirus occurs by inhalation of infectious materials. CDC recommends that persons involved with cleanup wear coveralls, rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air HEPA filter or a powered air-purifying respirator with HEPA filter. Disinfect personal protective gear upon removal at the end of the day. If 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 potential infective waste material 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 wastes. Rodent droppings and visible dust can 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 surfaces with a use solution prepared by adding 6 oz. of this product per gal. of water (2550 ppm active) and allow to stand undisturbed for 10 minutes.
5. Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.

Treat the surface again following the label directions and allow solution to stand undisturbed for 10 minutes.

#### RESIDENTIAL/HOUSEHOLD USE

**CLEAN/DISINFECT/DEODORIZE HOUSEHOLD HARD, NON-POROUS NON-FOOD CONTACT SURFACES:** Pre-clean visibly soiled areas. Apply a solution of 2 oz. of this product per gal. of water to hard, non-porous non-food contact surfaces with a brush, cloth, mop, sponge, mechanical spray device, hand pump trigger spray device, coarse trigger spray device. For spray applications, hold container 6 to 8 inches from surface. Do not breathe spray. For disinfection, treated surfaces must remain wet for 10 minutes. Rinse with potable water after use on surfaces that come in contact with food. Wipe up excess liquid or allow to air dry. Prepare a fresh solution daily or when visibly dirty.

#### SANITIZATION OF EXTERIOR HOUSEHOLD SURFACES DIRECTIONS

**PREPARATION OF USE SOLUTION:** Apply a use solution of 3 oz. of this product per gal. of water (1275 ppm active) to sanitize hard, non-porous exterior surfaces such as vinyl, plastic, sealed concrete, painted or sealed woodwork, and sealed stucco. Surfaces to be treated include house siding, decks, patios, walkways and driveways. One-half gal. of diluted product will treat 200-300 sq. ft. of hard, non-porous surfaces.

**APPLICATION:** Pre-clean visibly soiled areas. Apply solution with a brush, mop, cloth, sponge, auto scrubber, mechanical spray device, hand pump trigger spray device, coarse trigger spray device, or with a low-pressure (less than 60 psi) airless sprayer so as to wet surfaces thoroughly. For sprayer applications, spray 6 inches to 8 inches from surface. Do not breathe spray. If using a pressure washer with high-pressure spray to sanitize hard, non-porous surfaces, wear suitable respiratory protective equipment and protective eyewear to control exposure to spray. Treated surfaces must remain wet for 1 minute.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store only in original 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 HANDLING:** Non-Refillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

SPECIMEN  
LABEL



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# SAFETY DATA SHEET



**Health Emergencies: INFOTRAC® (800) 535-5053**

## 1. PRODUCT AND COMPANY INFORMATION

**Product Identity:** Nisus DSV™

**Recommended use:** Disinfectant, virucide, sanitizer.

**Manufacturer:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

**Telephone:** Phone: (800) 264-0870  
Fax: (865) 577-5825

**Emergency Phone:** 800-535-5053 (INFOTRAC)

**SDS Date of Preparation:** 11/01/17

## 2. HAZARDS IDENTIFICATION

**GHS Classification:**

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

**GHS Label Elements:**



**Signal Word:** Danger

**Statements of Hazard**

Causes severe burns and eye damage.

**Precautionary Statements**

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Alkyl (C <sub>12</sub> -C <sub>16</sub> ) dimethyl benzyl ammonium chloride	CAS 68424-85-1	2.200%
Octyl decyl dimethyl ammonium chloride	CAS 32426-11-2	1.650%
Diocetyl dimethyl ammonium chloride	CAS 5538-94-3	0.825%
Didecyl dimethyl ammonium chloride	CAS 7173-51-5	0.825%
Ethanol	CAS 64-17-5	<1%

## 4. FIRST AID MEASURES

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**Most important Symptoms:** Causes severe skin burns and eye damage.

**Indication of immediate medical attention/special treatment: Note to Physician:** Treat symptomatically

## 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Do not use water jet.  
**Specific hazards arising from the chemical:** Not determined.  
**Hazardous Combustion Products:** Toxic gases may be formed by fire.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment:** Isolate hazard area and restrict access. Eliminate all ignition sources. Ventilate affected area. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**Methods and Materials for Containment and Cleaning Up:** Prevent further leakage or spillage if safe to do so. A vapor suppressing foam may be used to reduce vapors. Spill area may be slippery. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dispose of contents/container to an approved waste disposal plant.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Strong oxidizers. Reducing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

**Engineering Controls:** Use explosion proof equipment. Mechanical Exhaust. Showers. Eyewash stations.

**Eye/Face Protection:** Splash proof chemical safety goggles. Face shield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection:** Wear rubber or neoprene gloves. Impervious apron. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection:** No protective equipment is needed under normal use conditions. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Appearance:** Colorless to light straw liquid

**Odor:** Benzaldehyde

**Odor Threshold:** Not determined

**pH:** 12.4

**Melting Point/Freezing Point:** Not determined

**Boiling Point/Boiling Range:** Not determined

**Flash Point:** >94°C / 201°F

**Evaporation Rate:** Not determined

**Flammability (Solid, Gas):** Not determined

**Upper Flammability Limits:** Not determined

**Lower Flammability Limit:** Not determined

**Vapor Pressure:** Not determined

**Vapor Density:** Not determined

**Specific Gravity:** Not determined

**Water Solubility:** Soluble in water

**Solubility in other solvents:** Not determined

**Partition Coefficient:** Not determined

**Auto-ignition Temperature:** Not determined

**Decomposition Temperature:** Not determined

**Kinematic Viscosity:** Not determined

**Dynamic Viscosity:** Not determined

**Explosive Properties:** Not determined

**Oxidizing Properties:** Not determined

**Density:** 8.4 lbs/gal (Water=1)

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** None under normal processing.

Hazardous polymerization does not occur.

**Conditions to Avoid:** Heat, flames and sparks.

**Incompatible Materials:** Strong oxidizers. Reducing agents.

**Hazardous Decomposition Products:** Hydrogen chloride. Carbon oxides. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Eye Contact:** Causes severe eye damage.

**Skin Contact:** Causes severe skin burns.

**Inhalation:** Do not inhale.

**Ingestion:** Do not ingest.

### Component information:

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Proprietary Chloride	= 426 mg/kg ( Rat )	-	-
Proprietary Alcohol	= 7060 mg/kg ( Rat )	-	= 124.7 mg/L ( Rat ) 4h
Proprietary Chloride	= 84 mg/kg ( Rat )	-	-

### Information on physical, chemical and toxicological effects

**Symptoms:** Please see Section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity:** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary Alcohol	A3	Group 1	Known	X

### Legend:

ACGIH (American Conference of Government Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity: Not determined

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Chemical Name:** Proprietary Alcohol

**Fish:** 12.0 - 16.0: 96 h *Oncorhynchus mykiss* mL/L LC<sub>50</sub> static 13400 - 15100: 96 h *Pimephales promelas* mg/L LC<sub>50</sub> flow-through 100: 96 h *Pimephales promelas* mg/L LC<sub>50</sub> static

**Toxicity to microorganisms:** EC<sub>50</sub> = 34634 mg/L 30 min, EC<sub>50</sub> = 35470 mg/L 5 min

**Crustacea:** 9268 - 14221: 48 h *Daphnia magna* mg/L LC<sub>50</sub> 2: 48 h *Daphnia magna* mg/L EC<sub>50</sub> Static 10800: 24 h *Daphnia magna* mg/L EC<sub>50</sub>

**Persistence and Degradability:** Not determined.

**Bioaccumulative:** Not determined.

**Mobility:** Not determined.

Chemical Name	Partition Coefficient
Proprietary Alcohol	-0.32

**Other Adverse Effects:** Not determined.

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

**Disposal of Wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Proprietary Alcohol	Toxic, ignitable

## 14. TRANSPORTATION INFORMATION

**Note:** Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

**DOT, IATA & IMDG:**

**UN/ID No.:** UN1903

**Proper Shipping Name:** Disinfectants, Liquid, Corrosive, n.o.s.  
(Quaternary Ammonium Compound)

**Hazard Class:** 8

**Packing Group:** III

## 15. REGULATORY INFORMATION

### International Inventories:

Chemical Name	Proprietary Chloride	Proprietary Chloride	Proprietary Alcohol	Proprietary Chloride
TSCA	Present	Present	Present	Present
DSL	X	X	X	X
NDSL				
EINECS	Present	Present	Present	Present
ELINCS				
ENCS	Present		Present	Present
IECSC	X	X	X	X
KECL	Present	Present	Present	Present
PICCS	X	X	X	X
AICS	X		X	X

**Legend:**

**TSCS** – United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** – Canadian Domestic substances List/Non-Domestic Substances List  
**EINECS/ELINCS** – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** – Japan Existing and New Chemical Substances  
**IECS** – China Inventory of Existing Chemical Substances  
**KECL** – Korean Existing and Evaluated Chemical Substances  
**PICCS** – Philippines Inventory of Chemicals and Chemical Substances  
**AICS** – Australian Inventory of Chemical Substances

**US Federal Regulations**

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act):** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations**

**California Proposition 65:** Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Proprietary Alcohol	Carcinogen Developmental

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary Alcohol	X	X	X

**EPA Pesticide Registration Number:** EPA Reg. No 10324-80-64405

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Signal Word: Danger

Hazardous to humans and domestic animals. Keep out of reach of children.

**Difference between SDS and EPA pesticide label**

	EPA	OSHA
Signal Word	Danger	Danger
Skin corrosion/irritation	N/A	Causes severe skin burns
Serious eye damage/eye irritation	N/A	Causes serious eye damage

**16. OTHER INFORMATION**

**NFPA Rating:**

Health = 3      Flammability = 0      Instability = 0  
Special Hazards = Not determined

**HMIS Rating:**

Health = 3      Flammability = 0      Physical Hazard = 0  
Personal Protection = B

**SDS Revision History:** 11/01/14: New SDS  
03/15/20: Revised

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