



# VANQUISH

## One-Step Disinfectant<sup>2,5</sup> - Cleaner - Sanitizer - Fungicide - Mildewstat - Virucide\* - Deodorizer

- FOR HOMES, RESTAURANTS, HOSPITALS, INSTITUTIONAL AND INDUSTRIAL USE
- FORMULATED FOR VETERINARY PRACTICE/ANIMAL CARE/ANIMAL LABORATORY DISINFECTION
- FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS
- KILLS SARS-COV-2, WHICH CAUSES COVID-19

**ACTIVE INGREDIENTS:**

Octyl decyl dimethyl ammonium chloride.....	1.65%
Diocyl dimethyl ammonium chloride .....	0.66%
Dicycyl dimethyl ammonium chloride.....	0.99%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride.....	2.20%
<b>OTHER INGREDIENTS:</b>	94.50%
<b>TOTAL</b>	<b>100.00%</b>

# KEEP OUT OF REACH OF CHILDREN DANGER

See side panel for Precautionary Statements

## 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 first 5 minutes, then continue rinsing eye. **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 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.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling poison control center or doctor or going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-3388. You may also contact the poison control center at 1-800-222-1222 for emergency medical treatment information.

EPA Reg. No. 6836-140-68562 EPA Est. No. 10088-WI-2

Net Contents: One Gallon

Distributed By: Total Solutions®  
PO Box 240014 • Milwaukee, WI 53224

## 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. Wear protective eyewear (goggles, face shield or safety glasses), protective (rubber or chemical resistant) gloves and protective clothing. Harmful if swallowed or absorbed through the skin. 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.

Use this product in federally inspected Meat & Poultry Plants as a food contact surface sanitizer and/or disinfectant. This product was authorized by USDA as category D1 under the prior authorization program and its formula has not been changed – a sanitizer for all surfaces not always requiring a rinse.

Use this product in: Bathrooms, Homes, Kitchens, Clinics, Dental Offices, Health Care Facilities, Hospitals, Medical Offices, Medical Related Facilities, Nursing homes, Sick Rooms, Day care centers, Nurseries, Bars, Cafeterias, Conventions, Food Preparation Areas, Food processing plants, food storage areas, Institutional kitchens, Restaurants (Front of house), USDA inspected food processing facilities, Athletic facilities, Barber shops, Business and office buildings, Colleges, Correctional facilities, Dressing rooms, Exercise facilities, Factories, Hotels, Institutional facilities, Institutions, Locker rooms, Motels, Pools, Public facilities, Public rest rooms, Schools, Shower and bath areas, Universities, Camp grounds, Play ground equipment, Animal laboratories, Dairy farms, Farms, Kennels, Pet animal quarters, Pet shops, Zoos, Airplanes, Airports, Ambulances, Boats, Buses, Campers, Cars, Emergency vehicles, Mobile homes, Ships, Taxis, Trailers, Trains, Transportation terminals.

Use this product to clean and disinfect nonporous fire fighting bunker/turnout gear; trousers; overcoats; gloves; boots; hoods, helmets, and air masks.

Use this product on washable hard, nonporous surfaces of: Appliances, exteriors, Bathroom fixtures, Bathtubs, Cabinets, Gages, Chairs, Coils and drain pans of air conditioning and refrigeration equipment and heat pumps, Conductive flooring, Counters, Countertop laminates, Desks, Doorknobs, Floors, Garage cars, Highchairs, Kennel runs, Microwave ovens, exteriors, Outdoor furniture except cushions and wood frames, Refrigerators, exteriors, Refrigerated storage and display equipment<sup>10</sup>, Showers, Shower stalls, Sinks, Stoves<sup>10</sup>, Tables, Telephones, Toilet exteriors, Toilet bowl surfaces, Tubs, Tiles, glazed, Urinals, Walls, Other hard nonporous surfaces made of: Glazed ceramic, Glazed enameled surfaces, Glazed porcelain, Laminated surfaces, Metal, Plastic (such as polystyrene or polypropylene), Sealed stone, Stainless steel, Upholstery, vinyl and plastic, Woodwork, finished, Soft (household) surfaces, Upholstery, Upholstered couches, Sofa Chairs, seat cushions, cushions, furniture, Window treatments, Curtains, Draperies, Shower curtains, Bags, back packs, Fabric Hampers, Pet Bedding, Blankets, car seats, stuffed animals, toys.

This product is consistent with 40 CFR §180.940 (a), when used per the food-contact sanitization instructions, for use on food-contact articles in public eating places, dairy-processing equipment, food processing equipment, utensils and other food-contact articles.

This product is a one-step<sup>2</sup> hospital use disinfectant<sup>5</sup>. Bactericidal tested according to the current AOAC Use-Dilution Test Method, Fungicidal according to the AOAC Fungicidal Test and Virucidal<sup>4</sup> tested according to the virucidal qualification modified in the presence of 200 ppm hard water plus 5% organic serum against:

**Bacteria:** Pseudomonas aeruginosa (Pseudomonas), Staphylococcus aureus (Staph), Salmonella enterica (Salmonella), Acinetobacter baumannii (Acinetobacter), Burkholderia cepacia, Campylobacter jejuni (Campylobacter), Corynebacterium aminogenes, Enterobacter aerogenes, Enterobacter cloacae NDM-1, Enterococcus faecalis (Enterococcus), Enterococcus faecalis-Vancomycin resistant (VRE), Escherichia coli (E. coli), Escherichia coli, New Delhi Metallo-β-lactamase (NDM-1), ESKA Escherichia coli - (Extended spectrum beta-lactamase producing E. coli), Klebsiella pneumoniae (Klebsiella), Klebsiella pneumoniae – NDM-1 positive, Legionella pneumophila, Listeria monocytogenes (Listeria), Salmonella scottmulleri (Salmonella), Salmoneilla typhimurium (Salmonella), Serratia marcescens, Shigella dysenteriae (Shigella), Staphylococcus aureus - Community Associated Methicillin-Resistant (CA-MRSA), Serratia marcescens (Serratia), Staphylococcus aureus - Community Associated Methicillin-Resistant (CA-MRSA), Staphylococcus aureus - Multi-Drug Resistant (resistant to tetracycline [Tc], penicillins [Pn], streptomycin [Sm] and erythromycin [Ery] and susceptible to chloramphenicol [Cm] in vitro), Staphylococcus aureus - Vancomycin Intermediate Resistant (VISA), Streptococcus pyogenes (Strep), Vibrio cholerae.

**Viruses:** Herpes B Virus (HBV), Herpes B Virus (HCV), Herpes Simplex Virus Type 1 (Herpes), Herpes Simplex Virus Type 2 (Herpes), HIV-1 (the AIDS Virus), Human Coronavirus, Influenza Virus Type A / H1N1 (Influenza), Influenza Virus Type A / H3N2 (Influenza), 2019 Influenza A Virus (H7N9), Respiratory Syncytial Virus (RSV), SARS Associated Coronavirus (SARS) (cause of Severe Acute Respiratory Syndrome), SARS-Related Coronavirus 2 (SARS-CoV-2) (cause of COVID-19), Vaccinia Virus, Adenovirus Type 5 (Adenovirus), Adenovirus Type 7 (Adenovirus), Norwalk Virus (Norovirus), Rotavirus.

**Fungi:** Aspergillus niger, Aspergillus fumigatus, Trichophyton interdigitale (the Athlete's Foot Fungus).  
**This product kills the following animal viruses:** Avian Infectious Bronchitis virus, Avian Influenza Virus (H5N2), Avian Influenza Virus (H5N1), Canine Distemper Virus, Feline calicivirus, Feline Panleukopenia Virus, Murine Norovirus<sup>3</sup>, Newcastle's Disease virus, Pseudorabies Virus.

This product is an effective sanitizer for use on pre-cleaned food contact surfaces at 150-200 ppm in waters up to 500 ppm hardness in 60 seconds against: Campylobacter jejuni, Escherichia coli, Staphylococcus aureus.

This product is a sanitizer for hard, non-porous non-food contact surfaces according to the method for Sanitizers - Non-Food Contact Surfaces, modified in the presence of 500 ppm hard water plus 5% organic serum in 60 seconds against: Klebsiella pneumoniae, Staphylococcus aureus.

This product sanitizes<sup>2</sup> 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds.

This product is a proven soft surface spot sanitizer treatment against:

- Staphylococcus aureus
- Enterobacter aerogenes

### DILUTION

Disinfection/Soft Surface Sanitization (1:64).....	2 oz. per gallon of water
Sanitizer (1:256).....	2 oz. per 4 gallons of water
Sanitizer (1:352).....	2 oz. per 5 1/2 gallons of water

Footnotes:

<sup>2</sup>On hard, non-porous, non-food surfaces

<sup>5</sup>When used according to the disinfection directions.

<sup>3</sup>Tested in deionized water

<sup>10</sup>Allow the surface to adjust to room temperature before disinfection.

### DIRECTIONS FOR USE

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

Before use 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.

#### Preparation of Disinfectant Use-Solution:

- Add 2 oz. per gallon of water (1:64).
- For heavy duty use, add 8 oz. per gallon of water (1:16).
- Use 8 oz. per gallon of water to kill Feline Panleukopenia Virus Type 5 and Type 7.
- Use 32 oz. per gallon of water to kill Killine Panleukopenia Virus.

#### DISINFECTION/VIRUCIDAL/FUNGICIDAL/MOLD AND MILDEW CONTROL DIRECTIONS:

Apply use-solution to hard, nonporous surfaces, thoroughly wetting the surfaces, with a cloth, mop, sponge, sprayer or by immersion. Treatment surfaces must remain visibly wet for 10 minutes. **For Influenza Virus Type A, Human Coronavirus and SARS-CoV-2**, treated surfaces must remain visibly wet for 1 minute. Wipe dry with a clean, spongy or mop or allow to air dry. For visible areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6 - 8 feet from surface. Avoid breathing spray.

**For fungicidal activity**, this product is an effective fungicide against *Trichophyton interdigitale* (the athlete's foot fungus) on shoes and locker rooms, dressing rooms, shower and bath areas and exercise facilities. Dilute at 2 oz. per gallon of water and allow surface to remain visibly wet for 10 minutes. This product is a one-step<sup>2</sup> fungicide at 2 oz. per gallon in 200 ppm hard water and 5% serum.

**For mold and mildew** At 2 oz. per gallon, this product will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow disinfection instructions. Repeat treatment every seven days, or more often if new growth appears.

Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes as a disinfectant. Prepare a fresh solution daily or more often if the solution becomes visibly dirty or clouded.

This product is not for use on medical device surfaces.

**TO CLEAN AND DEODORIZE:** Mix 2 oz. per gallon of water to clean and deodorize hard, non-porous non-food surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry. Rinse all surfaces that come in contact with food such as countertops/exteriors of appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes.

**KILLS HIV AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surface/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) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

**Special Instructions for Cleaning And Decontamination Against HIV-1 or HBV or HCV on Surfaces/Objects Soiled With Blood/Body Fluids.**

**Personal Protection:** Clean up must always be done wearing protective gloves, gowns, masks and eye protection.

**Cleaning Procedure:** Blood and other body fluids containing HIV-1 or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of this product.

**Contact Time:** Leave surface visibly wet for 1 minute for HIV-1 or 10 minutes for HBV and HCV with a 2 oz. per gallon use-solution. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and Type 7. Use a 10-minute contact time for disinfection against all other viruses, bacteria and fungi cleaned.

**Disposal of Infectious Material:** Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to local regulations for infectious waste disposal.

**VETERINARY PRACTICE/ANIMAL CARE/ANIMAL LABORATORY/ZOO/PEP SHOPS/KENNELS DISINFECTION/VIRUCIDAL DIRECTIONS:** For cleaning and disinfecting hard, nonporous surfaces; equipment used for feeding or watering animals, utensils, instruments, cages, kennels, stables, crates, pens, stalls and etc. Remove all animal and feeds from premises, animal transportation vehicles, carrier, pens, stalls and etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with use-solution of 2 oz. of this product per gallon of water (or equivalent dilution) for a period of 10 minutes. Use 8 oz. per gallon of water to kill Adenovirus Type 5 and Type 7. Use 32 oz. per gallon of water to kill Feline Panleukopenia Virus. For Murine norovirus, use dilution must be made with deionized water. Wipe or allow to air dry, Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers used to remove litter and manure. Thoroughly scrub all treated surfaces, then rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings, animal enclosures, vehicles and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

**FOR USE AS A ONE-STEP CLEANER AND DISINFECTANT BY ELECTROSTATIC SPRAYING<sup>2</sup>:** Electrostatic spray application is for efficacy claims with a 10 minute contact time and 1:64 dilution. This application method is not to be used to treat surfaces for sanitization or fungicidal claims.

•Ensure bystanders and pets are not present in the room during application.

•Clean visibly dirty surfaces prior to spraying.

•Wear a N95 filtering facepiece respirator or half face respirator with a N95 filter and eye protection (goggles, face shield or safety glasses) when spraying.

•Select a spray nozzle that produces spray droplet particles with a volume median diameter (VMD) ≥80 µm.

•Place the electrostatic spray function in the ON position for electrostatic spray models that have the functionality to toggle ON/OFF.

•Hold the sprayer nozzle 12 inches away from the target surface. Starting at the highest point and working down to the lowest point, spray target surfaces using a smooth methodical “S” pattern. To avoid leaving gaps in

covered surfaces, overlap previously treated surfaces when moving onto subsequent sections.

•The target surface must remain visibly wet for 10 minutes. Re-apply product as necessary to keep surface visibly wet for the duration of the contact time. Wipe surfaces dry (or rinse) (or allow to air dry).

•Allow the treated room to remain unoccupied for 15 minutes before reentering.

**•TO SANITIZE NON-FOOD CONTACT SURFACES:** Add 2 oz. of this product per 4 gallons of water (1/2 oz. of this product per gallon of water) to sanitize hard, nonporous surfaces. Treated surfaces must remain visibly wet for 60 seconds. Wipe dry with a sponge, mop or cloth or allow to air dry.

**•TO SANITIZE FOOD PROCESSING EQUIPMENT AND OTHER HARD SURFACES IN FOOD PROCESSING LOCATIONS, DAIRIES, RESTAURANTS AND BARS:** Use this product to sanitize hard, nonporous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage<sup>10</sup> and display equipment and other hard surfaces.

Prior to application, remove visible food particles and soil by a pre-rinse, or pre-scrub and, when necessary pre-soak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution.

Apply a use-solution of 1 oz. of this product per 2 1/2-gallons of water (150-200 ppm active quat) (or equivalent dilution) to pre-cleaned hard surfaces thoroughly wetting surfaces with a cloth, mop, sponge, coarse sprayer or by immersion. Surfaces must remain visibly wet for at least 60 seconds (one minute) followed by adequate draining and air drying. Do not rinse. Prepare a fresh solution for each use. For mechanical application, use-solution may not be reused for sanitizing applications but may be reused for other purposes such as cleaning. Apply to sink tops, countertops, refrigerated storage<sup>10</sup> and display equipment and other stationary hard, nonporous surfaces by cloth, sponge or brush or coarse spray. Sanitize dishes, silverware, glasses, cooking utensils and other similar size food processing equipment by immersion.

**TO SANITIZE SPT SURFACES:** For spot treatment only. Add 2 oz. per gallon of water. Apply use solution with a sprayer. Hold bottle 6” – 8” from surface and spray until fabric is wet. Fabric must remain visibly wet for 5 minutes. Allow fabric to air dry. Visibly soiled areas must be cleaned prior to sanitizing.

**WATER DAMAGE RESTORATION AGAINST ODOR-CAUSING BACTERIA AND FUNGI FOR HOME, INSTITUTIONAL, AND INDUSTRIAL 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 cushions, subfloors, drywall, concrete, brick, trim and frame lumber, tackless strip and paneling. Using appropriate dilution, saturate the affected materials with enough product to remain visibly wet for at least 10 minutes.

**Sewer Backup and River Flooding:** During mitigation procedures, dilute 2 – 4 oz. of the concentrate per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove visibly filthy or heavy soil along with non-salvageable materials. Saturate all affected areas with a coarse spray device before and after cleaning and extraction.

**Carpets, Carpet Cushions and Other Porous Materials such as Subfloors, Drywall, Concrete, Brick, Trim and Frame Lumber, Tackless Strip and Paneling:** For water damage from a clean source, extract excess water. Test hidden area for colorfastness. Dilute 2 – 4 oz. of the concentrate per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove visible filthy or heavy soil. Saturate all affected areas with a coarse spray device. Roll, brush or agitate into the materials and allow materials to remain visibly wet for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

**Special instructions for Cleaning Carpet against Odor Causing Bacteria:** Use this product in industrial and institutional areas such as motels, hotels, and schools. Use on wet-cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for colorfastness. **For portable extraction units:** Mix 2 oz. of concentrate per gallon of water. For **truck mounted extraction machines:** Mix 2 – 4 oz. of concentrate per gallon of water and meter at 4 gallons per hour. For **rotary floor machines:** Mix 2 oz. of concentrate per gallon of water and apply at the rate for 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 the 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 manufacturer's directions.

**Shoe Bath Sanitizer Directions:** To reduce cross contamination between treated surfaces in animal areas, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings and hatches. Scrape waterproof work boots and place in 2 oz. per 4 gallons of water solution for 60 seconds prior to entering area. Change the solution in the bath daily or more often if solution appears diluted or soiled.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Open dumping is prohibited. Store in original container in areas 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 by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

**Container Disposal:** Nonrefillable container: Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and reduce the container. Agitate vigorously, and dispose of rinse consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.



Nonfood Compounds  
Program Listed D2  
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