

**PRECAUTIONARY STATEMENTS**  
**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.

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

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

Use this product in federally inspected Meat & Poultry Plants as a food contact sanitizer and/or disinfectant. This product was authorized by USDA as category 02 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 homes, hospitals, medical and dental offices, nursing homes, day care centers, nurseries, restaurants, bars, cafeterias, institutional kitchens, food storage areas, convenience stores, public rest rooms, institutions, schools and colleges, athletic facilities, locker rooms, dressing rooms, shower and bath areas, exercise facilities, camp grounds, play ground equipment, institutional and public facilities, food processing plants, USDA inspected food processing facilities, kennels, pet animal quarters, shops, pet shops, animal laboratories, transportation terminals, hotels and motels, factories, business and office buildings, boats, ships, campers, trailers, mobile homes, cars, buses, trains, taxis, airplanes, emergency vehicles, prisons, and correctional facilities.

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: floors, walls, countertops, stovetops, sinks, appliances exteriors, refrigerators exteriors, microwaves ovens exteriors, cabinets, highchairs, garbage cans, refrigerated storage and display equipment, tables, non-wooden picnic tables, outdoor furniture except cushions and wood frames, chairs, desks, telephones, bookshelves, shower stalls, tubs and glazed tiles, bathtubs, toilet bowl surfaces, bathroom fixtures, kennel runs, cages, coils and drain pans of air conditioning and refrigeration equipment and heat pumps, conductive flooring and other hard nonporous surfaces made of: metal, stainless steel, glazed porcelain, glazed ceramic, sealed stone, plastic (such as polystyrene or polypropylene), glazed enameled surfaces, vinyl and plastic upholstery and laminated surfaces.

This product has been cleared by 40 CFR 180.940 (d) for use on Food-contact surfaces in public eating places, dairy-processing equipment, utensils and other food-contact articles.

This product is a one-step Hospital Use disinfectant, bactericidal according to the current AAOAC Use-Dilution Test Method, Fungicidal according to the AAOAC Fungicidal Test and Virucidal\* 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), Brevibacterium ammoniovoles (Brevibacterium), Campylobacter jejuni (Campylobacter), Staphylococcus aureus - Community Associated Methicillin-Resistant (CA-MRSA)(MRSA)(USA300), Staphylococcus aureus - Community Associated Methicillin-Resistant (CA-MRSA)(MRSE)(USA400), Enterobacter aerogenes, Enterococcus faecalis (Enterococcus), Enterococcus faecalis - Vancomycin resistant (VRE), Escherichia coli (E. coli), ESB, Escherichia coli - (Extended spectrum beta-lactamase producing E. coli), Klebsiella pneumoniae (Klebsiella), Legionella pneumophila, Listeria monocytogenes, Pseudomonas cepacia (Pseudomonas), Salmonella schottmulleri (Salmonella), Salmonella typhi (Salmonella), Serratia marcescens, Shigella dysenteriae (Shigella), Staphylococcus aureus - Methicillin-Resistant (MRSA), Staphylococcus aureus Multi-Drug Resistant (resistant to tetracycline, penicillin, streptomycin and erythromycin, and susceptible to chloramphenicol *in vitro*), Staphylococcus aureus - Vancomycin Intermediate Resistant - (VISA), Streptococcus pyogenes (Strep), Vibrio cholerae.

**Viruses:** Hepatitis B Virus (HBV), "Hepatitis C Virus (HCV), "Herpes Simplex Virus Type 2 (Herpes), "HIV-1 (the AIDS Virus), "Human Coronavirus, "Influenza Virus Type A/Brazil (Influenza), "Influenza Virus Type A/Hong Kong (Influenza), "Respiratory Syncytial Virus S (Rhinovirus), "Adenovirus Type 7 (Adenovirus), "Rotavirus.

**Animal Viruses:** Avian Infectious Bronchitis Virus, Avian Influenza Virus H5N2, Avian Influenza Virus H5N1, Canine Distemper Virus, Felim Calicivirus, Newcastle's Disease Virus, Pseudorabies Virus.

**Fungi:** Trichophyton mentagrophytes (the Athlete's Foot Fungus), Aspergillus niger.

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 eliminates 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds.

**DILUTION**  
Disinfection (1:64) 2 oz. per gallon of water.  
Sanitizer (1:25) 2 oz. per 4 gallons of water. (200 ppm active)  
Sanitizer (1:35) 2 oz. per 5 1/2 gallons of water. (150 ppm active)

**DIRECTIONS FOR USE**  
It is a 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 (mix) 2 oz. per gallon of water (1:64).  
For heavy duty use, add (mix) 8 oz. per gallon of water (1:16).

**VETERINARY PRACTICE/ANIMAL CARE/ANIMAL LABORATORY/ZOOS/PETS/SHOP/KENNELS DISINFECTION/VIRUCIDAL\* DIRECTIONS:** For cleaning and disinfecting hard nonporous surfaces: equipment used for feeding or watering animals, utensils, instruments, cages, kennels, stables, catteries, pens, stalls, etc. Remove all animals and feeds from premises, animal transportation vehicles, crates, 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 a 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. 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 for removing litter and manure. Thoroughly rinse all treated surfaces, then rinse all surfaces that come in contact with food, including equipment used for

*Directions for Use Continues on side panel.*

# TOTAL SOLUTIONS®

## VANQUISH

**One-Step Disinfectant - Cleaner - Sanitizer  
Fungicide - Mildewstat - Virucide\* - Deodorizer**

- FOR HOMES, HOSPITALS, INSTITUTIONAL AND INDUSTRIAL USE
- FORMULATED FOR VETERINARY PRACTICE/ANIMAL CARE/ANIMAL LABORATORY DISINFECTION
- FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS

**KILLS PANDEMIC 2009 H1N1 INFLUENZA A VIRUS (FORMERLY CALLED SWINE FLU)**

**ACTIVE INGREDIENTS**

Dicyl decyl dimethyl ammonium chloride	1.65%
Dioctyl dimethyl ammonium chloride	0.85%
Dibetyl dimethyl ammonium chloride	0.50%
Alkyl (C <sub>12</sub> , 50%; C <sub>14</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride	2.20%
<b>OTHER INGREDIENTS</b>	94.20%
<b>TOTAL</b>	100.00%

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

See side panel for Precautionary Statements and First Aid.

EPA Reg. No. 6836-140-68562  
EPA Est. No. 10088-WI-1  
**Net Contents**  
5 6 20 30 35 55 Gallons

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

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.

**DISINFECTION/VIRUCIDAL\*/FUNGICIDAL/MILD AND MILDEW CONTROL DIRECTIONS:** Apply use-solution to hard, nonporous surfaces, thoroughly wetting the surfaces, with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface; rub with brush, sponge or cloth. Avoid breathing spray.

**For fungicidal activity,** this product is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities. This product is a one-step 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 diluted.

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 surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

**\*KILLS HIV AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOLED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with 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 wet for 1 minute (60 seconds) for HIV-1 and 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.

**TO SANITIZE NON-FOOD CONTACT SURFACES:** Add (mix) 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 wet for 60 seconds. Wipe dry with a sponge, mop or cloth or allow to air dry.

**TO SANITIZE FOOD CONTACT SURFACES:** Use this product to sanitize hard nonporous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard surfaces.

Prior to application, remove gross food particles and soil by a pre-rush, 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- 2 3/4 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 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 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 stationary hard size food processing equipment by immersion.

**WISCONSIN STATE BOARD OF HEALTH DIRECTIONS FOR EATING ESTABLISHMENTS.**

1. Scrape and pre-wash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with potable water.
4. Sanitize in a use-solution of 0.4 ounces per gallon of water (50-200 ppm active quat). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
5. Prepare a fresh sanitizing solution at least daily or when visibly soiled or diluted.

**NOTE:** A clean potable water rinse following sanitization is not permitted under Section HFS 196, Appendix 7-204.11 of the Wisconsin Administrative Code (reference CR 180.940 (d)).

**Carpets, Carpet Cushions and Other Porous Materials such as Subfloors, Drywall, Concrete, Brick, Trim and Frame Lumber, Tackles 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 gross filth or debris soil. Saturate all affected areas with a coarse spray device. Roll, brush or agitate into the materials and allow materials to remain wet for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

**Shoe Bath Sanitizer Directions:** To prevent cross contamination into animal areas, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings and hatcheries. 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.

**(For Household and Residential Use)**  
**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children. Nonrefillable container. Do not reuse or refill this container. Wrap container and put in trash or offer for recycling if available.

**(For commercial, institutional, and institutional use)**

**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 representative 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 reclose the container. Agitate vigorously, and dispose of rinsate 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.

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