

DIRECTIONS FOR USE

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

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

DISINFECTION – To disinfect inanimate, hard surfaces add 2 ounces of this product per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

To disinfect toilet bowls: flush toilet, add 2 ounces of this product directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush.

To disinfect food processing premises: Before using this product, food products and packaging materials must be removed from the area or carefully protected. For floors, walls, and storage areas, add 2 ounces of this product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

To disinfect food service establishment food contact surfaces: Before using this product, food products and packaging materials must be removed from the area or carefully protected. For countertops, appliances, tables, add 2 ounces of this product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. This product cannot be used to clean the following food contact surfaces: utensils, glassware and dishes.

For use on non-food contact surfaces as a general disinfectant in the brewery industry: Use 2 ounces of this product per gallon of water (or equivalent use dilution) (703 ppm active quat). Follow the Disinfectant directions above.

BACTERICIDAL ACTIVITY – When diluted at the rate of 2 ounces per gallon of water, this product exhibits effective disinfectant activity against the organisms: *Pseudomonas aeruginosa* PRD 10, *Escherichia coli*, *Klebsiella pneumoniae*, *Salmoneilla (schottmuelleri) enterica*, *Salmonella (choleraesuis) enterica*, *Streptococcus salivarius*, *Brevibacterium ammoniagenes*, *Streptococcus faecalis*, *Shigella dysenteriae*, *Enterobacter aerogenes*, *Staphylococcus aureus*, *Methicillin resistant Staphylococcus aureus (MRSA)*, *Vancomycin intermediate resistant Staphylococcus aureus (VISA)*, *Streptococcus pyogenes (Clinical–Flesh Eating Strain, BIRD M3)*, and *Listeria monocytogenes*, and meets all requirements for hospital use.

FUNGICIDAL ACTIVITY – At the 2 ounce per gallon dilution, this product is also fungicidal against the pathogenic fungi, *Trichophyton mentagrophytes (Athlete's Foot Fungus)* (a cause of ringworm) (a cause of ringworm of the foot), when used as directed on hard surfaces found in bathrooms, shower stalls, locker rooms, exercise facilities or other clean, hard, non-porous, surfaces commonly contacted by bare feet.

***VIRUCIDAL ACTIVITY** – This product, when used on environmental, inanimate, hard, non-porous surfaces at 2 ounces per gallon of water, exhibits effective virucidal activity against Influenza A2/Japan (representative of the common flu virus), Herpes Simplex Type 1 (causative agent of fever blisters), Adenovirus Type 2 (causative agent of upper respiratory infections), Vaccinia virus (representative of the Pox virus group), Human Immunodeficiency Virus Type 1 (HIV-1), Human Coronavirus (ATCC VR-740, Strain 229E), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Norovirus (Norwalk Virus), Bovine Viral Diarrhea Virus (BVDV), Feline calicivirus (FCV), SARS Associated Coronavirus, Avian Influenza A and Porcine Respiratory & Reproductive Syndrome Virus (PRRSV) (Strain NVSL).

At 8 ounces per gallon or equivalent dilution rate (2812 ppm (mg/L) active quat), this product is effective against the following viruses on hard non-porous environmental surfaces: Canine Parvovirus (CPV), Canine Adenovirus (causative agent of Infectious Canine Hepatitis), Canine Coronavirus (causative agent of Canine Coronavirus Disease, Canine Gastroenteritis), Canine Parainfluenza Virus (causative agent of viral Kennel Cough), Feline Panleukopenia (Feline Parvovirus), Feline Rhinotracheitis (causative agent of Feline Herpes virus infection), Feline Coronavirus (causative agent of Feline Infectious Peritonitis), Feline Picornavirus and Porcine Parvovirus. **Canine Parvovirus (CPV) Activity:** At 8 ounces per gallon of water or equivalent dilution, this product inactivates Canine Parvovirus (CPV) on hard, non-porous, environmental surfaces in the presence of 5% blood serum with a 10 minute contact time.

KILLS HIV-1, HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS in health care settings (Hospitals, Nursing Homes) 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), 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: When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

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

CONTACT TIME: Allow surface to remain wet for 10 minutes.

DISPOSAL OF INFECTIOUS MATERIALS: Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

MILDEWSTAT – To control mold and mildew on pre-cleaned, hard, non-porous surfaces, add 2 ounces of this product per gallon of water. Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or low pressure coarse sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE, FUNGICIDE, AND VIRUCIDE IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).

APPLICATIONS AND USE DILUTION

Poultry And Swine Premise Disinfection (Special Instructions for Inactivating Avian Influenza A): Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water. Saturate surfaces with the disinfecting solution for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

Veterinary Practice/Animal Care/Animal Laboratory/Zoos/Pet Shop/Kennels Disinfection Directions: For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals and feed from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 ounces of this product per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

Disinfection/Fungicide/Virucide of Poultry/Turkey Equipment, Equine Quarters, Swine Quarters, Animal Quarters and Kennels Directions: Remove all animals and feeds from premises, vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls, and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water (or equivalent use dilution) (703 ppm active quat). Saturate surfaces with the use-solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings, coops and other closed spaces. Do not house poultry or other animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent, then rinsed with potable water before reuse.

Hatcheries: Use 2 ounces of this product per gallon of water to treat the following hard non-porous surfaces: hatches, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

Shoe Bath Sanitizer Directions: Shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Change waterproof shoes and place in 2 ounces of this product per gallon of water solution for 60 seconds prior to entering area. Swap the use solution in the bath daily or sooner if solution appears dirty.

SANITIZATION – For use in restaurants, dairies, food processing plants, and bars. When used as directed, this product is an effective sanitizer against *Escherichia coli* and *Staphylococcus aureus*. Remove all gross food particles and soil from areas, which are to be sanitized, with a good detergent, pre-flush, pre-soak or pre-scrub treatment. Rinse with a potable water rinse. To sanitize previously cleaned and rinsed, non-porous food contact surfaces, prepare a 200 - 400 ppm active quaternary solution by adding 2 - 4 ounces of this product to 3.5 gallons of water (or equivalent use dilution).

From a closed loop dilution center: Apply 200 - 400 ppm active solution to the surface to be sanitized. Surfaces should remain wet for at least 1 minute, followed by adequate draining and air drying.

To sanitize immobile items such as tanks, chopping blocks, and counter tops, flood the area with a 200 - 400 ppm active quaternary solution or apply with a cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer making sure to wet all surfaces completely for at least 60 seconds. Let air dry. Prepare a fresh solution for each use.

To sanitize mobile items such as drinking glasses and eating utensils, immerse in a 200 - 400 ppm active quaternary solution for at least 60 seconds making sure to immerse completely. Remove and let air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

When used for sanitization of previously cleaned food equipment or food contact items, limit active quaternaries to 200 - 400 ppm. At this level, NO POTABLE WATER RINSE IS ALLOWED. This product is an effective sanitizer when diluted in water up to 250 ppm hardness (as CaCO₃).

At 2 - 4 ounces per 3.5 gallons of water, this product eliminates 99.999% of *Escherichia coli* and *Staphylococcus aureus* in 60 seconds in 250 ppm water hardness (as CaCO₃) in accordance with the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test.

DIRECTIONS FOR SANITIZING FOOD PROCESSING EQUIPMENT, UTENSILS, AND FOOD CONTACT ARTICLES REGULATED BY 40CFR sec 180.940.

1. Scrape, flush or pre-soak articles (whether mobile or stationary) to remove gross food particles and soil.
 2. Thoroughly wash articles with an appropriate detergent or cleaner.
 3. Rinse articles thoroughly with potable water.
 4. Sanitize articles using a solution of 2 - 4 ounces of this product per 3.5 gallons of water (or equivalent dilution) (200 - 400 ppm active quaternary). Articles to be immersed in use-solution must remain in solution for 60 seconds. Articles too large for immersion must be thoroughly wetted by rinsing, spraying or swabbing.
 5. Remove immersed items from use-solution to drain and then air dry. Non-immersed items must also be allowed to air dry.
- U.S. PUBLIC HEALTH SERVICE - FOOD SERVICE SANITIZATION RECOMMENDATIONS CLEANING AND SANITIZING:** Equipment and utensils shall be thoroughly pre-flushed or pre-scraped, and when necessary, pre-soaked to remove gross food particles and soil.
1. Thoroughly wash equipment and utensils in a hot detergent solution. Rinse utensils and equipment thoroughly with potable water.
 2. Sanitize equipment and utensils by immersing in 2 - 4 ounces of this product per 3.5 gallons (or equivalent dilution) of water (200 - 400 ppm active quaternary) for at least 60 seconds at a temperature of 75°F. This dilution is equivalent to a solution containing 50 ppm available chlorine.
 3. Allow sanitized surfaces to drain and air dry. Do not rinse.
 4. For equipment and utensils too large to sanitize by immersion, apply 2 - 4 ounces of this product per 3.5 gallons of water (or equivalent dilution) (200 - 400 ppm active quaternary) by rinsing, spraying or swabbing. Allow the items to remain thoroughly wet for at least 60 seconds, then let air dry. Do not rinse.

Sanitary Filling Equipment Sanitizer Directions: For use in sanitizing bottles or cans in the final rinse application. The product is to be proportioned into the final rinse water line of the container washer or riser in the concentration of 200 - 400 ppm active quaternary. Prepare a solution of 2 - 4 ounces of this product per 3.5 gallons of water (or equivalent use dilution) (200 - 400 ppm active quaternary) for the exterior application for the filler and closing machine. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse. No rinse is allowed.

Storage Tank Sanitizer Directions: For sanitizing beer fermentation and holding tanks, citrus and food processing storage and holding tanks. Thoroughly wash surfaces with a compatible detergent or cleaner, then rinse thoroughly with potable water. Prepare a solution of 2 - 4 ounces of this product per 3.5 gallons of water (or equivalent use dilution) (200 - 400 ppm active quaternary) for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse. No rinse allowed. For mechanical operations or automated systems, the use sanitizing solution must not be reused for sanitizing.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE – Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in an area inaccessible to children.

CONTAINER DISPOSAL – Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

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.



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S249-1



PDC

PLAIN DISINFECTANT CLEANER II

• Fragrance-Free • Dye-Free

Zep PDC Plain Disinfectant Cleaner II, when used as directed, is formulated to disinfect inanimate, hard, non-porous, surfaces: floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, vinyl, chrome, bathrooms, shower stalls, shower doors, bathtubs, toilets, bathroom fixtures, kitchens, countertops, sinks, exteriors of (microwaves, refrigerators, stoves, and other) kitchen appliances, stovetops, automobile interiors, cabinets, tables, chairs, desks, dining room surfaces, doorknobs, garbage cans, telephones, hospital beds, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs. For larger areas: operating rooms, patient care facilities and restrooms, this product is designed to provide both general cleaning and disinfecting.

Zep PDC Plain Disinfectant Cleaner II is for use on washable, hard, non-porous surfaces: • Food processing plants, USDA inspected food processing facilities, equine farms, hog farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms. • Beer fermentation equipment and holding tanks, bottling or pre-mix dispensing equipment. • Citrus processing equipment and holding tanks. This product has been cleared in 40CFR Section 180.940 for use as a sanitizer on food processing equipment, utensils, and other food contact articles at a concentration of 200 - 400 ppm active quaternary without requiring a Potable Water Rinse. This product is for use in sanitizing beer fermentation and holding tanks.

ACTIVE INGREDIENTS

n-Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈) dimethyl benzyl ammonium chlorides 2.25%

n-Alkyl (68% C₁₂, 32% C₁₄) dimethyl ethylbenzyl ammonium chlorides 2.25%

INERT INGREDIENTS 95.50%

Total 100.00%

EPA Reg. No. 1839-79-1270

EPA Est. No. 1270-GA-1(1), 1270-TX-1(2) or 40849-GA-1(E)

Postscript is first letter of number of batch code on container.

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

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. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

If swallowed: Call 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

You may contact 1-877-541-2016 for emergency medical treatment information.

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

NET CONTENTS: 1 U.S. GALLON (3.78 L)