

# CC-632



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**DIN # 02294842**

For use in laundry, laundry facilities, washing machines, clothes washing machines, commercial laundries, coin-operated laundries, laundry cleaning facilities.

This product is for use on hard, non-porous surfaces in food processing plants, federally 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.

For use on 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.

This product is a one-step disinfectant that is effective against a broad spectrum of bacteria, is virucidal including HIV-1 and inhibits the growth of mold and mildew and their odors when used as directed.

This product is for use as a disinfectant on hard, non-porous, non-food contact surfaces at 454 ppm active and as a sanitizer on dishes, glassware and utensils, public eating places, dairy processing equipment, and food processing equipment at 148 - 395 ppm active.

Use this product to sanitize hard, non-porous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage areas, display equipment, and other hard surfaces.

## ORGANISM LIST

**DISINFECTION PERFORMANCE:** This product kills the following bacteria in 10 minutes at 46 mL per 7.6 L of 200 ppm hard water (454 ppm active) and 5% soil on hard, non-porous surfaces: *Burkholderia cepacia*, *Campylobacter jejuni*, *Corynebacterium ammoniagenes*, *Enterococcus faecalis* Vancomycin Resistant, *Escherichia coli* O157:H7, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Pseudomonas*

*aeruginosa*, *Rhodococcus equi*, *Salmonella enterica*, *Salmonella enterica* serovar *typhimurium*, *Salmonella typhi*, *Staphylococcus aureus*, *Staphylococcus aureus* Community Associated Methicillin Resistant (CA MRSA), *Staphylococcus aureus* Hospital Acquired Methicillin Resistant (HA-MRSA), *Streptococcus equi*

**VIRUCIDAL PERFORMANCE:** This product kills the following viruses in 10 minutes at 46 mL per 7.6 L of 200 ppm hard water (454 ppm active) and 5% soil on hard, non-porous surfaces: Avian Influenza A (H5N1) Virus, Herpes Simplex Type 1 Virus, Herpes Simplex Type 2 Virus, Human Coronavirus, Human Immunodeficiency Virus Type 1<sup>†</sup> (HIV-1), Influenza A (H1N1) Virus, Influenza A<sub>2</sub>/Hong Kong Virus (H3N2), Vaccinia Virus

<sup>†</sup> Indicates a 2 minute contact time is required for this claim.

This product kills the following viruses in 10 minutes at 119 mL per 7.6 L of 200 ppm hard water (1174 ppm active) and 5% soil on hard, non-porous surfaces: \*\*Norovirus (Norwalk-like Virus)

**MILDEWSTATIC PERFORMANCE** This product controls the following mold/mildew at 46 mL per 7.6 L of 200 ppm hard water (454 ppm active) on hard, non-porous surfaces for up to 7 days: *Aspergillus niger*

**ANIMAL PREMISE VIRUCIDAL PERFORMANCE:** This product kills the following viruses in 10 minutes at 46 mL per 7.6 L of 200 ppm hard water (454 ppm active) and 5% soil on hard, non-porous surfaces: Avian Influenza A (H5N1) Virus, Canine Coronavirus, Canine Distemper Virus, Equine Herpes Virus Type 1, Infectious Bovine Rhinotracheitis Virus (IBR), Infectious Laryngotracheitis Virus, Newcastle Disease Virus, Porcine Reproductive and Respiratory Syndrome Virus, Porcine Rotavirus, Pseudorabies Virus, Transmissible Gastroenteritis Virus (TGE)

**NON-FOOD CONTACT SANITIZING PERFORMANCE:** This product is an effective one-step sanitizer in 3 minutes at 46 mL per 7.6 L of 200 ppm hard water (454 ppm active) and 5% soil on hard, non-porous surfaces against: *Klebsiella pneumoniae*, *Staphylococcus aureus*

**FOOD CONTACT SURFACE SANITIZING PERFORMANCE:** This product is an effective food contact sanitizer in 30 seconds at 20 mL per 7.6 L of 500 ppm hard water (197 ppm active) on hard, non-porous surfaces against: *Aeromonas hydrophila*, *Campylobacter jejuni*, *Enterococcus faecalis* Vancomycin Resistant, *Escherichia coli*, *Escherichia coli* O26:H11, *Escherichia coli* O45:K:H-, *Escherichia coli* O103:K:H8, *Escherichia coli* O111:H8, *Escherichia coli* O121:K:H10, *Escherichia coli* O145:H28, *Escherichia coli* O157:H7, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Salmonella enterica*, *Salmonella enteritidis*, *Salmonella typhi*, *Shigella dysenteriae*, *Shigella sonnei*, *Staphylococcus aureus*, *Staphylococcus aureus* Methicillin Resistant (MRSA), *Streptococcus pyogenes*, *Yersinia enterocolitica*

This product is an effective food contact sanitizer in 30 seconds at 15 mL per 7.6 L of 300 ppm hard water (148 ppm active) on hard, non-porous surfaces against: *Escherichia coli*, *Staphylococcus aureus*

This product is an effective food contact sanitizer in 30 seconds at 40 mL per 7.6 L of 1000 ppm hard water (395 ppm active) on hard, non-porous surfaces against: *Escherichia coli*, *Staphylococcus aureus*

**LAUNDRY PRESOAK DISINFECTION PERFORMANCE:** This product is an effective laundry presoak disinfectant in 10 minutes at 103 mL per 17 L of 200 ppm hard water (454 ppm active) against the following organisms: *Burkholderia cepacia*, *Campylobacter jejuni*, *Corynebacterium ammoniagenes*, *Enterococcus faecium* Vancomycin Resistant, *Escherichia coli* O157:H7, *Klebsiella pneumoniae*, *Listeria monocytogenes*, *Pseudomonas aeruginosa*, *Rhodococcus equi*, *Salmonella enterica*, *Salmonella enterica* serovar *typhimurium*, *Salmonella typhi*, *Staphylococcus aureus*, *Staphylococcus aureus* Community Associated Methicillin Resistant (CA MRSA), *Staphylococcus aureus* Hospital Acquired Methicillin Resistant (HA-MRSA), *Streptococcus equi*, Avian Influenza A (H5N1) Virus, Herpes Simplex Type 1 Virus, Herpes Simplex Type 2 Virus, Human Coronavirus, Human Immunodeficiency Virus Type 1<sup>†</sup> (HIV-1), Influenza A (H1N1) Virus, Influenza A<sub>2</sub>/Hong Kong Virus (H3N2), Vaccinia Virus

<sup>†</sup> Indicates a 2-minute contact time is required for this claim.

**LAUNDRY PRESOAK SANITIZING PERFORMANCE:** This product is an effective laundry presoak sanitizer in 3 minutes at 23 mL per 3.8 L of 200 ppm hard water (454 ppm active) against the following organisms: *Klebsiella pneumoniae*, *Staphylococcus aureus*

## DIRECTIONS FOR USE

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.

### DILUTION TABLE:

Use	Dilution	Contact Time
For General Disinfectant claims	46 mL per 7.6 L of water	10 minutes
For Public Health Virucidal claims	46 mL per 7.6 L of water	10 minutes
For Norovirus claims	119 mL per 7.6 L of water	10 minutes
For Animal Virucidal claims	46 mL per 7.6 L of water	10 minutes
For Non-Food Contact Surface Sanitizing claims	46 mL per 7.6 L of water	3 minutes
For Food Contact Surface Sanitizing claims at 148 ppm	15 mL per 7.6 L of water	30 seconds
For Food Contact Surface Sanitizing claims at 197 ppm	20 mL per 7.6 L of water	30 seconds
For Food Contact Surface Sanitizing claims at 395 ppm	40 mL per 7.6 L of water	30 seconds
For Laundry Presoak Disinfection claims	1.4 L per 45 kg of dry fabric	10 minutes
For Laundry Presoak Sanitization claims	1.4 L per 45 kg of dry fabric	3 minutes
For Mold and Mildew claims	46 mL per 7.6 L of water	Up to 7 days

## HEALTH CARE/NON-MEDICAL

### FOR USE AS A ONE-STEP GENERAL DISINFECTANT, VIRUCIDE, DEODORIZER, CLEANER:

1. Pre-clean visibly soiled areas.
2. Apply use solution of 46 - 119 mL of this product per 7.6 L of water (or equivalent use dilution) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump trigger spray device. For spray applications, spray 15 - 20 cm 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.
5. Prepare a fresh solution daily or when visibly dirty.

### BLOODBORNE PATHOGEN INSTRUCTIONS:

**KILLS HIV 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).

### SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 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 must be thoroughly cleaned from hard, non-porous surfaces and objects before application of this product.

**Disposal of Infectious Materials:** Any material used in the cleaning process that may contain blood or other body fluids must be disposed of immediately in accordance with local regulations for infectious materials disposal.

**Contact Time:** Allow hard, non-porous surface to remain wet for 2 minutes to kill HIV and for 10 minutes to kill all other viruses and bacteria listed on the label.

**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 use

solution of 46 mL of this product per 7.6 L of water (or equivalent use dilution) (454 ppm active) directly into bath chamber. Place objects into unit and operate for a minimum of 10 minutes. Remove objects and rinse with sterile water. Allow to air dry. Prepare a fresh solution daily or when visibly dirty.

**CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS):** Pre-clean equipment if visibly soiled to ensure proper surface contact. Prepare a use solution by adding 46 - 119 mL of this product per 7.6 L of water (or equivalent use dilution) (454 - 1174 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. For spray applications, spray 15 - 20 cm 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. Prepare a fresh solution daily or when visibly dirty.

## FOOD CONTACT SURFACE SANITIZING DIRECTIONS

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

**FOOD CONTACT SURFACE SANITIZING DILUTION TABLE FOR FOOD CONTACT SURFACES, PUBLIC EATING PLACES, DAIRY PROCESSING EQUIPMENT, FOOD PROCESSING EQUIPMENT, AND UTENSILS:** To prepare a 148, 197, or 395 ppm active solution use the following dilution table. Prepare the correct dilution rate based upon the appropriate use site.

### FOOD CONTACT SANITIZING DILUTION TABLE

Active solution	3.8 L	7.6 L	15.2 L	30.4 L
148 ppm	7.5 mL	15 mL	30 mL	60 mL
197 ppm	10 mL	20 mL	40 mL	80 mL
395 ppm	20 mL	40 mL	80 mL	160 mL

### FOOD CONTACT SURFACE SANITIZING PERFORMANCE FOR PUBLIC EATING PLACES, DAIRY PROCESSING EQUIPMENT AND FOOD PROCESSING EQUIPMENT, UTENSILS, AND OTHER HARD, NON-POROUS FOOD CONTACT SURFACES IN FOOD PROCESSING LOCATIONS, MEAT PLANTS, DAIRIES, BAKERIES, CANNERIES, BEVERAGE PLANTS, RESTAURANTS, AND BARS DIRECTIONS:

Immerse pre-cleaned glassware, dishes, silverware, cooking utensils and other similar size food processing equipment in a solution of 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution) for at least 30 seconds. Allow sanitized surfaces to adequately drain before contact with food so that little or no residue remains. Do not rinse.

For articles too large for immersing, apply a use solution of 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution) to sanitize hard, non-porous food contact surfaces with a brush, cloth, mop, sponge, auto scrubber, mechanical spray device, hand pump trigger spray device. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Surfaces must remain wet for at least 30 seconds. Allow sanitized surfaces to adequately drain before contact with food so that little or no residue remains. Do not rinse.

Prepare a fresh solution daily or when visibly dirty. For mechanical application, use solution must not be reused for sanitizing applications.

### CLOSED LOOP CIRCULATION SANITIZING – FOOD PROCESSING EQUIPMENT FLOW/PRESSURE METHOD:

1. Disassemble equipment and thoroughly clean after use.
2. Assemble equipment into operational position prior to sanitizing.
3. Prepare a sanitizing solution equal to 110% of the volume capacity of the equipment by diluting 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution).
4. Pump the solution through the system until full flow is obtained at all extremities and the system is completely filled with sanitizer and all air is removed. Surfaces must remain wet for at least 30 seconds.

**CLEAN-IN-PLACE (CIP) METHOD FOR DAIRY, DAIRY FARM AND FOOD PROCESSING FACILITIES:**

1. Thoroughly flush, clean, and potable water rinse the system.
2. Prepare required volume of sanitizer solution needed by diluting 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution).
3. To sanitize entire system by circulation methods, run pumps for at least 2 minutes to thoroughly wet and sanitize all parts of the system.

**SANITIZING OF REFRIGERATED FOOD PROCESSING EQUIPMENT AND OTHER HARD, NON-POROUS SURFACES IN FOOD CONTACT LOCATIONS:** For sanitizing food processing equipment, dairy equipment, refrigerated storage and display equipment and other hard, non-porous food contact surfaces, surfaces must be thoroughly pre-flushed or pre-scraped and, when necessary, presoaked to remove gross food particles.

1. Turn off refrigeration. Allow surfaces to come to room temperature. (**Note:** Use this direction only if applicable.)
2. Unit must be washed with a compatible detergent and rinsed with potable water before sanitizing. (**Note:** Use this direction only if applicable.)
3. Apply a solution of 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution) by direct pouring, by circulating through the system, or by hand pump trigger spray device. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Surfaces must remain wet for at least 30 seconds.
4. Allow sanitized surfaces to adequately drain before contact with food/liquid. Do not rinse. Return machine to service.
5. Prepare a fresh solution daily or when visibly dirty.

**BEVERAGE DISPENSING AND SANITARY FILLING EQUIPMENT SANITIZER DIRECTIONS:** For sanitizing hard, non-porous bottling or pre-mix dispensing equipment and bottles or cans in the final rinse application. This product is to be proportioned into the final rinse water line of the container washer or rinser. Fill equipment with a solution of 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution). Surfaces must remain wet for at least 30 seconds or until operations resume, at which time the sanitizing solution must be drained from the system. Allow sanitized surfaces to adequately drain before contact with liquid. Do not rinse.

**STORAGE TANK SANITIZER DIRECTIONS:** For sanitizing hard, non-porous beer fermentation and holding tanks, and wine, citrus, and food processing storage and holding tanks. Prepare a solution of 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution) for mechanical or automated systems. Surfaces must remain wet for at least 30 seconds. Allow sanitized surfaces to adequately drain before contact with food/liquid. Do not rinse. For mechanical operations or automated systems, the used sanitizing solution must not be reused for sanitizing but can be reused for other purposes such as cleaning.

**SANITIZING EGG SHELLS INTENDED FOR FOOD DIRECTIONS:** To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a solution of 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution). The solution must be warmer than the eggs, but not to exceed 54°C. Wet eggs thoroughly and allow solution to drain. Eggs sanitized with this product must be subjected to a potable water rinse only if they are to be broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. The solution must not be re-used for sanitizing eggs. **Note:** Only clean, whole eggs can be sanitized. Dirty, cracked, or punctured eggs cannot be sanitized.

**FOR TREATMENT OF MEAT AND POULTRY OR FRUIT AND VEGETABLE CONVEYOR(S) BELTS:** Remove gross food particles and excess soil by a pre-flush or pre-scrape. Wash with a good detergent or compatible cleaner. Rinse equipment thoroughly with potable water and then rinse with a sanitizing solution. During processing apply 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution) to conveyors with suitable feeding equipment. Do not allow this solution to be sprayed directly on food. Controlled volumes of sanitizer are applied to return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer from equipment and to prevent puddles on top of belt. During interruptions in operation, apply solution using coarse spray equipment to peelers, collators, slicers and saws, and other non-porous conveyor equipment. Allow

surfaces to remain wet for at least 30 seconds. Conveyors and other equipment must be free of product when applying this coarse spray.

**GLOVE DIP/SPRAY SANITIZER DIRECTIONS:** To reduce cross-contamination on treated surfaces from area to area in animals' areas and the packaging and storage areas of food plants, dip, soak or spray pre-washed plastic, latex, or other synthetic rubber non-porous gloves thoroughly to ensure sanitizing solution covers the exterior surfaces of the gloves prior to usage. For spray applications, use a coarse spray device. Do not let sanitizing solution come into contact with exposed skin. After applying solution, allow gloves to remain wet for at least 30 seconds. Let air dry thoroughly before wearing gloves. Do not rinse. Prepare sanitizing solution by adding 15 - 40 mL of this product per 7.6 L of water (148 - 395 ppm active quat) (or equivalent use dilution). Prepare a fresh solution daily or when visibly dirty.

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## NON-FOOD CONTACT SURFACE SANITIZING DIRECTIONS

**NON-FOOD CONTACT SURFACE SANITIZING:** Pre-clean visibly soiled surfaces. Add 46 mL of this product per 7.6 L of water (or equivalent use dilution) (454 ppm active). 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. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Treated surfaces must remain wet for 3 minutes. 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. Prepare a use solution of 46 mL of this product per 7.6 L of water (or equivalent use dilution) (454 ppm active) directly into bath chamber. Place objects into unit and operate for a minimum of 3 minutes. Remove objects and rinse with water. 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 (RESPIRATORS):** Add 46 mL of this product per 7.6 L of water (or equivalent use dilution) (454 ppm active). 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. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Thoroughly wet surfaces to be sanitized. Treated surfaces must remain wet for 3 minutes. 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 in animal areas entryways and the packaging and storage areas of food plants, shoe baths containing 2.5 cm 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 use solution of 46 - 82 mL of this product per 7.6 L of water (or equivalent use dilution) (454 - 809 ppm active) or allow to remain wet for 3 minutes prior to entering area. Prepare a fresh solution daily or when visibly dirty.

**FOR FOOT DIP OF WATERPROOF FOOTWEAR:** Use this product at 46 - 82 mL per 7.6 L of water (or equivalent use dilution) (454-809 ppm active) in foot dip tray. Shoe baths must contain at least 2.5 cm of freshly made solution and be placed at the entrances to buildings. Scrape shoes and place in diluted solution for 3 minutes before entering building or in entryways. Prepare a fresh solution daily or when visibly dirty.

**SHOE FOAM DIRECTIONS:** To reduce cross-contamination on treated surfaces from area to area in animal areas entryways and the packaging and storage areas of food plants, apply a foam layer approximately 1.25 - 5 cm thick made from a solution of 82 -122 mL of this product per 7.6 L of water (or equivalent use dilution) (809 - 1204 ppm active) at all entrances to buildings, hatcheries, and 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 for 3 minutes prior to entering area. Foam area must be washed and replaced daily or when it appears visibly soiled or dirty.

**SHOE SPRAY SANITIZING DIRECTIONS:** For visibly soiled exterior surfaces of footwear, scrape/wipe with brush, sponge, or cloth to remove excess dirt.

1. Prepare a spray bottle by adding 46 - 82 mL of this product per 7.6 L of water (or equivalent use dilution) (454 - 809 ppm active).
2. Spray sole of footwear 15 - 20 cm away from surface to thoroughly wet entire surface.
3. Repeat procedure on other sole.
4. Treated surfaces must remain wet for 3 minutes.
5. Absorb excess product with clean cloth.

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

**ENTRYWAY SANITIZING SYSTEMS:** To reduce cross-contamination on treated surfaces from area to area, set the system to deliver a sanitizing solution of 46 - 82 mL of this product per 7.6 L of water (or equivalent use dilution) (454 - 809 ppm active). 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.

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## MOLD/MILDEW

**TO CONTROL MOLD/MILDEW:** Pre-clean hard, non-porous surfaces. Prepare use solution by adding 46 mL of this product per 7.6 L of water (or equivalent use dilution). Apply use solution to hard, non-porous surfaces and allow to air dry, which will effectively inhibit the growth of mold and mildew and their odors. Repeat treatment every 7 days, or more often if new growth appears.

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## ANIMAL PREMISES

Prior to use of this product, remove all animals, poultry and feeds from premises, animal transportation vehicles and enclosures (coops, crates, kennels, stables). 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 poultry or other 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:** Apply a use solution of 46 mL of this product per 7.6 L of water (or equivalent use dilution) to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, mechanical spray device, hand pump trigger spray device. For spray applications, spray 15 - 20 cm 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, poultry, livestock or employ equipment until treatment has 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.

**HATCHERIES:** Use to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard, non-porous surfaces. Use 46 mL of this product per 7.6 L of water. Leave all treated surfaces wet for 10 minutes or more. Allow to air dry.

**VEHICLES:** To clean and disinfect hard, non-porous surfaces on vehicles including mats, crates, cabs, and wheels, use 46 mL of this product per 7.6 L of water. Apply use solution to hard, non-porous surfaces on vehicles. Leave treated surfaces wet for 10 minutes. Allow to air dry.

**FOR DISINFECTING RENDERING PLANTS:** To disinfect hard, non-porous equipment, utensils, walls, and floors in poultry and animal rendering plants including offal rooms, exterior walls, and loading

platforms. Cover or remove all food and packaging materials. Remove all heavy soils prior to application. Saturate surfaces with a solution of 46 mL of this product per 7.6 L of water (or equivalent use dilution) 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.

## 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 46 mL of this product per 7.6 L of water (454 ppm active) (or equivalent use dilution) and apply to trimmer surfaces with a sponge, brush, cloth, by immersion, hand pump trigger spray device. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Treated surfaces must remain wet for 3 minutes. Prepare a fresh solution daily or when visibly dirty.

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## FOGGING

### FOGGING IN FOOD PREMISES

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

### DIRECTIONS FOR 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 946 mL per 28 m<sup>3</sup> of room area with a solution containing 17 mL of this product per L of water (1275 ppm active) (or equivalent use dilution). 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 food contact surfaces must be sanitized with an approved food contact sanitizer solution prior to use. All food contact surfaces must be thoroughly rinsed with potable water prior to sanitizing.

**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 2 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 facepiece NIOSH approved respirator (TC-84A) with any N, R, or P 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 HATCHERY ROOMS USING FOGGING DEVICES:** Remove all animals and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls, and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean surfaces with soap or detergent and rinse with water. Close off room so fog is confined to room to be treated. Mix 3.8 L of this product per 9.5 L of water (or equivalent use dilution). 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. Insert the nozzle of the fogger through a suitable opening into the room. With the fogger set on maximum output, fog for 1 minute for each 113 m<sup>3</sup> of space in the room. 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 completed, ventilate buildings and other

closed spaces. Do not house livestock, animals or employ equipment until treatment has dried. Thoroughly clean all fogged surfaces with soap or detergent and rinse with water.

**CLEANING OF INCUBATORS AND HATCHERS USING FOGGING DEVICES:** Only for use on setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs. Mix 107 mL of this product per L of water (or equivalent use dilution). 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 89 - 240 mL 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 solution of 11.5 mL of this product per L of water (or equivalent use dilution) on an hourly or every other hour basis. If this is done, fog for 30 - 90 seconds once per hour or once every 2 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 dried. Thoroughly scrub all fogged feed racks, mangers, troughs, automatic feeders, fountains, waterers, and other treated 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 2 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 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.

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## RESTROOM/BATHROOM

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

Remove visible soil prior to disinfection.

**From a Concentrate:** Add 23 mL 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 of 46 mL of this product per 7.6 L of water (or equivalent use dilution) (454 ppm active) to exposed surfaces, including under the rim with a toilet brush, mop, cloth, or sponge, hand pump trigger spray device. For spray applications, spray 15 - 20 cm 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 46 mL of this product per 3.8 L 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. For sprayer application, spray 15 - 20 cm 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.

**DEEP CLEANING/DISINFECTING WATERLESS 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 46 mL of this product per 7.6 L of water (or equivalent use dilution) directly onto surface. 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/WATERLESS URINALS:** Remove any debris from the urinal. Spray 15 - 30 mL of use solution onto urinal surface. To prepare use solution: Add 23 mL of this product per 3.8 L of water (or equivalent use dilution) (454 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 areas. Apply a use solution of 23 mL of this product per 3.8 L of water (or equivalent use dilution) on all hard, non-porous surfaces with a brush, cloth, mop, sponge, hand pump trigger spray device. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Allow surface to remain wet for at least 10 minutes. Wipe up excess liquid on surfaces with a paper towel and/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 46 mL of this product per 7.6 L of water (454 ppm active) (or equivalent use dilution) to hard, non-porous surfaces including floors, walls, and ceilings, making sure not to over spray. To disinfect, 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.

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## DEODORIZATION/CLEANING

**FOR USE AS A GENERAL CLEANER AND/OR DEODORIZER:** Prepare use solution of 59 - 89 mL of this product per 17 L of water (or equivalent use dilution) and apply to hard, non-porous surfaces. Wipe up excess liquid with a paper towel and/or allow to air dry. For heavy-duty use, apply 118 mL of this product per 17 L of water to clean hard, non-porous surfaces.

**GENERAL DEODORIZATION:** To deodorize, apply 59 - 89 mL of this product per 17 L of water (or equivalent use dilution) to hard, non-porous surfaces. Wipe up excess liquid with a paper towel and/or allow to air dry.

**AIR FRESHENER:** A solution of 59 mL of this product per 17 L of water will effectively neutralize damp, musty 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 with a paper towel and/or allow surface to air dry.

**GLASS CLEANING/DEODORIZING DIRECTIONS:** Use a solution of 59 - 89 mL of this product per 17 L of water to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. For spray applications, spray 15 - 20 cm from surface. Do not breathe spray. Rub with sponge or cloth. Change cloth, sponge, or towels frequently to avoid re-deposition of soil.

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## LAUNDRY USE

### LAUNDRY DEODORIZER

**LAUNDRY DEODORIZER AGAINST ODOR CAUSING BACTERIA:** For activity against odor causing bacteria caused by conditions of high relative humidity or wet contamination, use 393 mL of this product per 45 kg of dry weight fabric. Dilute the appropriate amount of this product in 3.8 - 7.6 L of water, and then add to the wash wheel in the final rinse. Re-treat fabric after each washing. Laundered fabric may also be treated by soaking.

### LAUNDRY MILDEWSTAT

**PRESERVATION AGAINST MILDEW BY SOAKING:** Use 393 mL of this product per 45 kg of fabric (dry weight). A minimum soaking time of 5 minutes is required.

### LAUNDRY PRESOAK DISINFECTION

**LAUNDRY PRESOAK DISINFECTION:** Remove gross filth from laundry prior to soaking. Add 1.4 L of this product to 228 L of water per 45 kg of dry laundry (or equivalent ratio) to the washer during presoak. Allow laundry to soak for at least 10 minutes to disinfect.

**LAUNDRY PRESOAK DISINFECTION:** Remove gross filth from laundry prior to soaking. Prepare a use solution of 103 mL of this product per 17 L of water (454 ppm active) (or equivalent use dilution). Completely immerse laundry in approximately 228 L of use solution per 45 kg of dry laundry for at least 10 minutes to disinfect.

**KILLS HIV-1 ON LAUNDRY IN COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL APPLICATIONS.** This product provides virucidal activity against HIV-1 on fabrics after a 2-minute soak.

**FOR USE IN SMALL COMMERCIAL WASHING MACHINES:** Use the chart below to determine the equivalent use dilution per wash load for use as a laundry presoak disinfectant in small commercial washing machines. This is based on 5 parts water to 1 part laundry.

Washer Capacity (kg dry laundry)	mL (per wash load)
11	360
23	720
34	1080

### LAUNDRY PRESOAK SANITIZATION

**LAUNDRY PRESOAK SANITIZATION:** Remove gross filth from laundry prior to soaking. Add 1.4 L of this product to 228 L of water per 45 kg of dry laundry (or equivalent ratio) to the washer during presoak. Allow laundry to soak for at least 3 minutes to sanitize.

**LAUNDRY PRESOAK SANITIZATION:** Remove gross filth from laundry prior to soaking. Prepare a use solution of 23 mL of this product per 3.8 L of water (454 ppm active) (or equivalent use dilution). Completely immerse laundry in approximately 228 L of use solution per 45 kg of dry laundry for at least 3 minutes to sanitize.

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