



FLO-QUAT SANITIZER
DISINFECTANT – SANITIZER – VIRUCIDE\*

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

EMERGING VIRAL PATHOGEN – 2019 Novel Coronavirus (2019-nCoV) – Wuhan

FLO-QUAT SANITIZER (EPA Reg. No. 10324-117-10693) has demonstrated effectiveness against viruses similar to 2019 novel coronavirus (SARS-CoV-2) on hard non-porous surfaces. Therefore, this product can be used against 2019 novel coronavirus (SARS-CoV-2) when used in accordance with the directions for use against Norovirus (Feline Calicivirus) on hard, non-porous surfaces. Refer to the CDC website at (https://www.cdc.gov/coronavirus/2019-ncov/index.html) for additional information.

ACTIVE INGREDIENTS:

Table listing active ingredients: Octyl Decyl Dimethyl Ammonium Chloride (3.0%), Didecyl Dimethyl Ammonium Chloride (1.5%), Dioctyl Dimethyl Ammonium Chloride (1.5%), Alkyl (C14, 50%; C12, 40%; C16, 10%) dimethyl benzyl ammonium chloride (4.0%), and INERT INGREDIENTS (90.0%). TOTAL 100.0%

SPECIFICATIONS:

Table listing specifications: Color (Clear to Straw Colored Liquid), Fragrance (Mild), pH (6.0 - 9.0), and Specific Gravity (0.981 - 1.001).

FOOD CONTACT SANITIZING DIRECTIONS: Before use as a sanitizer in public eating places and dairies, food products and packaging materials must be removed from the room or carefully protected. Prior to application, remove gross food particles and soil by a pre-flush or pre-scrape and when necessary, pre-soak. Thoroughly wash or flush objects with a good detergent or compatible cleaner, followed by a potable water rinse before application of the sanitizing solution.

FOOD CONTACT SANITIZING PERFORMANCE: At 1 ounce of FLO-QUAT SANITIZER per 4 gallons of water (200 ppm active), FLO-QUAT eliminates 99.999% of the following bacteria in 60 seconds in 500 ppm hard water calculated as CaCO3 according to the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test:

Table listing bacteria: Aeromonas hydrophila, Campylobacter jejuni, Clostridium perfringens-vegetative, Escherichia coli 0157:H7, Escherichia coli 0111:H8, Enterococcus faecalis Vancomycin resistant, Staphylococcus aureus Methicillin resistant, Enterobacter sakazakii, Listeria monocytogenes, Klebsiella pneumoniae, Salmonella enterica, Salmonella enteritidis, Shigella dysenteriae, Shigella sonnei, Staphylococcus aureus, Streptococcus pyogenes, and Yersinia enterocolitica.

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The information contained herein is based on our experience and sources we believe to be accurate. Since use of the product is normally beyond our control, no warranty is implied and we assume no liability for damage of any kind. This PRODUCT BULLETIN further shall not be considered as permission or a recommendation to use the product in violation of any existing patent.

At 0.75 ounces per 4 gallons (150 ppm active) **FLO-QUAT SANITIZER** is effective with a 1 minute contact time as a food-contact surface sanitizer in water up to 500 ppm hardness against Escherichia coli and Staphylococcus aureus. At 0.75 ounces per 4 gallons (150 ppm active), **FLO-QUAT SANITIZER** fulfills the criteria of Appendix F of the Grade A Pasteurized Milk, Ordinance 1978 Recommendations of the U.S. Public Health Services in water up to 500 ppm of hardness calculated as CaCO<sub>3</sub> when evaluated by the AOAC Germicidal and Detergent Sanitizer Method against Escherichia coli and Staphylococcus aureus.

**FOOD CONTACT DILUTION GUIDE:** To prepare a 150, 200, 300, or 400 ppm active solution, use the following dilution table. Prepare the correct dilution rate based upon the appropriate use site:

Active Solution	1 gallon	4 gallons	10 gallons	20 gallons
150 ppm	0.19 ounce	0.75 ounce	1.92 ounces	3.84 ounces
200 ppm	¼ ounce	1.0 ounce	2½ ounces	5.0 ounces
300 ppm	0.375 ounce	1½ ounce	3¾ ounces	7½ ounces
400 ppm	½ ounce	2.0 ounces	5.0 ounces	10.0 ounces

**SANITATION:** When used for sanitation of previously cleaned hard, non-porous food equipment or food contact items, limit active to 200 – 400 ppm active. At this level, NO POTABLE WATER RINSE is allowed.

To sanitize previously cleaned and rinsed hard, non-porous food contact surfaces, prepare a 150 – 400 ppm active solution by adding 0.75 to 2 ounces to 4 gallons of water.

**TO SANITIZE IMMOBILE HARD, NON-POROUS ITEMS** such as tanks, chopping blocks, countertops, refrigerated storage and display equipment, food processing equipment, tables, picnic tables, appliances, stove tops, and food work areas: Flood the area with appropriate ppm active quaternary solution of **FLO-QUAT SANITIZER** for at least 1 minute, making sure to wet all surfaces completely. Allow sanitized surfaces to adequately drain before contact with food and then air dry. **NO POTABLE WATER RINSE IS ALLOWED.** Prepare a fresh solution at least daily or when use solution becomes visibly dirty. For mechanical operations, this solution can be used once for sanitizing and re-used for cleaning.

**TO SANITIZE MOBILE HARD, NON-POROUS ITEMS** such as glassware, utensils, cookware, dishware, glasses, and eating utensils: Scrape and pre-wash utensils, glassware, cookware, dishware, and other mobile hard, non-porous items. Immerse in appropriate ppm active quaternary solution of **FLO-QUAT SANITIZER** for at least 1 minute, making sure to immerse completely. Remove immersed items from solution. Thoroughly drain all sanitized articles and then air dry. **NO POTABLE WATER RINSE IS ALLOWED.** Prepare a fresh solution at least daily or when use solution becomes visible dirty. For mechanical operations, this solution can be used once for sanitizing and re-used for cleaning.

**DIRECTIONS FOR SANITIZING FOOD CONTACT SURFACES OF FOOD PROCESSING EQUIPMENT AND UTENSILS, AS REGULATED BY 40 Code Federal Regulations, Section 180.940(c):**

1. Sanitize articles using a solution of 0.19 to ½ ounce of **FLO-QUAT SANITIZER** per 1 gallon of water (150 - 400 ppm active). Articles that can be immersed in solution must remain in the solution for 1 minute. Articles too large for immersing must be thoroughly wetted by rinsing, spraying, or swabbing for 60 seconds.
2. Remove the immersed items from the solution followed by adequate draining.
3. Allow the sanitized surfaces to adequately drain before contact with food and then air dry.
4. NO POTABLE RINSE IS ALLOWED.
5. Change cloth, sponge, or towels frequently to avoid re-deposition of soil. Prepare a fresh solution at least daily or when the use solution becomes visibly dirty. For mechanical application, use solution must not be used for sanitizing applications.

**BEVERAGE DISPENSING EQUIPMENT SANITIZER DIRECTIONS:** For sanitizing of hard, non-porous bottling or pre-mix dispensing equipment. After cleaning thoroughly, rinse equipment with cold or lukewarm potable water. Fill equipment with a solution of 0.75 - 2 ounce(s) of **FLO-QUAT SANITIZER** per 4 gallons of water (150 - 400 ppm active). Surfaces must remain wet for at least 1 minute or until operations resume, at which time the sanitizing solution must be drained from the system. To insure the removal of flavors during changeover between products, the system must be cleaned, rinsed, and flushed with the sanitizing solution for at least 60 seconds. Allow sanitized surfaces to adequately drain before contact with liquid and then air dry. **NO POTABLE WATER RINSE IS ALLOWED.** For mechanical application, use solution must not be re-used for sanitizing applications.

**SANITARY FILLING EQUIPMENT SANITIZER DIRECTIONS:** For use in sanitizing hard, non-porous 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 rinser in the concentration of 150 - 400 ppm active. Prepare a solution of 0.75 to 2 ounce(s) of **FLO-QUAT SANITIZER** per 4 gallons of water (150 - 400 ppm active) for the exterior application for the filler and closing machine. Allow surfaces to remain wet for at least 60 seconds. Allow sanitized surfaces to adequately drain before contact with food. **NO POTABLE WATER RINSE IS ALLOWED.** For mechanical application, use solution must not be re-used for sanitizing applications.

**STORAGE TANK SANITIZER DIRECTIONS:** For sanitizing hard, non-porous beer fermentation and holding tanks, wine, citrus, and food processing storage and holding tanks. Prepare a solution of 0.75 - 2 ounce(s) of **FLO-QUAT SANITIZER** per 4 gallons of water (150 - 400 ppm active) for mechanical or automated systems. Follow manufacturer's directions for use for application equipment. Allow surfaces to remain wet for at least 60 seconds. Allow sanitized surfaces to adequately drain before contact with food. **NO POTABLE WATER RINSE IS ALLOWED.** For mechanical operations or automated systems, the used sanitizing solution must not be re-used for sanitizing, but can be re-used 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 0.75 - 1 ounce of **FLO-QUAT SANITIZER** per 4 gallons of warm water (150 - 200 ppm active). The solution must be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow solution to drain. Eggs sanitized with **FLO-QUAT SANITIZER** must be subjected to 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. Do not re-use the solution 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 CONVEYORS:** To sanitize the equipment line, apply **FLO-QUAT SANITIZER** at a 150 - 400 ppm active level, 0.75 - 2 ounce(s) of **FLO-QUAT SANITIZER** per 4 gallons to conveyors with suitable feeding equipment. Do not allow this solution to spray 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 60 seconds. Conveyor equipment must be free of product when applying this coarse spray.

**GLOVE DIP SANITIZER DIRECTIONS:** To prevent cross-contamination from area-to-area in animal areas and the packaging and storage areas of food plants, soak pre-washed plastic, latex, or other synthetic rubber non-porous gloved hands into a suitable clean container that contains enough freshly made sanitizing solution to cover the gloved area for at least 1 minute. Make up the sanitizing solution by adding 0.75 - 2 ounce(s) of **FLO-QUAT SANITIZER** per 4 gallons of water (150 - 400 ppm active). **NO POTABLE WATER RINSE IS ALLOWED.** Change the sanitizing solution in the bath at least daily or when solution appears visibly dirty. Do not let sanitizing solution come into contact with exposed skin.

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

**DISINFECTION PERFORMANCE IN INSTITUTIONS** (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions) and **NON-MEDICAL FACILITIES** (Schools, Restaurants, Food Services, Dairies, Farms, Beverage and Food Processing Plants, and other Non-Medical Facilities): At 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water use level (450 ppm active) and with a 10 minute contact time, **FLO-QUAT SANITIZER** is bactericidal according to the AOAC Use Dilution Test method on hard, non-porous surfaces modified in the presence of 5% organic serum against:

Burkholderia cepacia	Salmonella enterica
Campylobacter jejuni	Salmonella enterica serovar agona
Clostridium perfringens-vegetative	Salmonella enterica serovar anatum
Corynebacterium ammoniagenes	Salmonella enterica serovar Newport
Escherichia coli 0157:H7	Salmonella enterica serovar typhimurium
Enterococcus faecium Vancomycin resistant	Salmonella enterica serovar infantis
Enterococcus faecium Ciprofloxacin resistant (not for use in CA)	Salmonella typhi
Enterococcus faecium Penicillin-G resistant (not for use in CA)	Shigell sonnei
Klebsiella pneumoniae	Community Acquired Methicillin resistant Staphylococcus aureus
Listeria monocytogenes	Staphylococcus aureus Methicillin resistant
Pseudomonas aeruginosa	Staphylococcus aureus
Rhodococcus equi	Streptococcus equi

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**VIRUCIDAL\* PERFORMANCE:** At 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water use level (450 ppm active), **FLO-QUAT SANITIZER** was evaluated with a 10 minute contact time in the presence of 5% blood serum and found to be effective against the following viruses on hard, non-porous surfaces:

Avian Influenza A (H5N1) virus

Avian Influenza/Turkey/Wisconsin virus

Hepatitis B Virus (HBV)

Hepatitis C Virus (HCV)

Herpes Simplex Type 1 virus

Herpes Simplex Type 2 virus

Human Coronavirus

Influenza A (H1N1) virus

Influenza A2/Hong Kong virus (H3N2)

Influenza A<sub>2</sub>/J305 virus

Vaccinia virus

At 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water (450 ppm active) use level, evaluated in the presence of 5% blood serum for a 2 minute contact time, **FLO-QUAT SANITIZER** was found to be effective against the following viruses on hard, non-porous surfaces: HIV-1 AIDS Virus

At 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water use level (450 ppm active), in the presence of 5% organic load, **FLO-QUAT SANITIZER** was proven to be effective against (*Duck*) Hepatitis B Virus (HBV) and Bovine Viral Diarrhea Virus (BVDV) surrogate for human Hepatitis C Virus (HCV) with a contact time of 10 minutes.

**\*FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A (H5N1) VIRUS:** For use in hospitals, hotels, motels, schools, and other non-animal use sites, follow the **Institutional Disinfectant Directions**. This product is not for use on medical device surfaces.

**INSTITUTIONAL DISINFECTANT DIRECTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions):** For heavily soiled areas, a preliminary cleaning is required. For disinfecting hard, non-porous surfaces such as floors, walls, countertops, bathing areas, lavatories, tables, chairs, garbage pails, add 3 ounces of **FLO-QUAT SANITIZER** with 5 gallons of water (450 ppm active) to disinfect hard, non-porous surfaces. Apply use solution to surfaces, thoroughly wetting surfaces with a brush, cloth, mop, sponge, auto scrubber, mechanical spray device, hand pump, coarse pump, or trigger spray device or by immersion. For sprayer applications, spray 6" – 8" inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. Treated surfaces must remain wet for 10 minutes. Wipe up excess liquid. Change cloth, sponge, or towels frequently to avoid re-deposition of soil. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**KILLS HIV, 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 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), 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:** Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, and eye protection.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from hard, non-porous surfaces and objects before application of **FLO-QUAT SANITIZER**.

**Disposal of Infectious Materials:** Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to Federal, State, and Local regulations for infectious waste disposal.

**Contact Time:** For HIV, leave hard, non-porous surfaces wet for 2 minutes with a 3 ounce to 5 gallons of water (450 ppm active) solution of **FLO-QUAT SANITIZER**. This contact time will not control other common types of viruses and bacteria. For HBV and HCV, leave hard, non-porous surfaces wet for 10 minutes with a 3 ounce to 5 gallons of water (450 ppm active) use solution of **FLO-QUAT SANITIZER**.

**CLEANING DIRECTIONS:** Add 1.75 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water to clean windows, mirrors, and other surfaces. Apply solution with a brush, mop, cloth, sponge, auto scrubber, or trigger spray device so as to wet all surfaces thoroughly. For sprayer applications, spray 6" - 8" inches from the surface. Rub with sponge or cloth. Wipe up excess liquid. Do not breathe spray. Change cloth, sponge, or towels frequently to avoid re-deposition of soil.

**MOLD AND MILDEW PERFORMANCE:** At 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water use level (450 ppm active) and with a 10 minute contact time, **FLO-QUAT SANITIZER** was evaluated in the presence of 5% serum and found to be effective against the following on hard, non-porous surfaces: *Aspergillus niger*.

**MOLD AND MILDEW CONTROL:** To control the growth of mold and mildew and their odors on hard, non-porous surfaces, apply use solution of 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water. Apply by cloth, sponge, mop, brush, auto scrubber, mechanical spray device, or trigger spray device to thoroughly wet all treated surfaces completely. For spray applications, spray 6"- 8" inches from surface. Do not breathe spray. Saturate surfaces with use solution. Allow surface to remain wet for 10 minutes. Allow solution to dry on surface and repeat treatment every 7 days or when new growth appears. Change cloth, sponge, or towels frequently to avoid re-deposition of soil. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**DIRECTIONS FOR FOGGING IN DAIRIES, BEVERAGE AND FOOD PROCESSING PLANTS:** Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1,000 cubic feet of room area with a solution containing 1.5 ounces of **FLO-QUAT SANITIZER** to 1 gallon of water (1,200 ppm active). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. 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. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution of 0.75 - 2 ounces to 4 gallons of water prior to use. All food contact surfaces must be thoroughly rinsed prior to re-use with potable water. Allow food contact surfaces to drain thoroughly before operations are resumed. 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 self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves, and long pants.

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES**

**MUSHROOM FARM INDUSTRY USE DIRECTIONS:** Site Preparation: The first step in any ongoing sanitation program must be the removal of gross contamination and debris. This may be accomplished by using a shovel, broom, or vacuum depending on the area to be disinfected. Disinfection: For heavily soiled areas, pre-clean first. Use 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water use solution. Wet all hard, non-porous surfaces thoroughly. Treated surfaces must remain wet for 10 minutes. Let air-dry. Prepare a fresh solution for each use. For Heavy Duty Cleaning: When greater cleaning is desired, use 0.60 ounces of **FLO-QUAT SANITIZER** per 1 gallon of water use solution. Heavily soiled areas will require repeated cleaning before treatment. **DO NOT APPLY TO THE MUSHROOM CROP, COMPOST, OR CASING.** Rinse treated surfaces with potable water before they contact the crop, compost, or casing.

**ANIMAL PREMISES:** Prior to use of **FLO-QUAT SANITIZER**, cover or remove all food and packaging material before disinfection and remove all animals and feeds from areas to be treated, animal transportation vehicles, and enclosures. Remove all litter, droppings, and manure from floors, walls, and surfaces of barns, pens, stalls, chutes, and other surfaces of facilities and fixtures occupied or traversed by 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.

**ANIMAL PREMISE VIRUCIDAL\* PERFORMANCE:** At a 3 ounce of **FLO-QUAT SANITIZER** per 5 gallons of water use level (450 ppm active), this product was evaluated and found to be effective in the presence of 5% blood serum and with a 10 minute contact time against the following viruses on hard, non-porous surfaces:

Canine Distemper virus  
Canine Coronavirus  
Equine Influenza A H3N8 virus  
Equine Herpes Virus Type 1  
Infectious Bovine Rhinotracheitis virus (IBR)  
Infectious Laryngotracheitis virus

Newcastle disease virus  
Porcine Respiratory & Reproductive Virus (PRRSV)  
Porcine Rotavirus  
Pseudorabies virus  
Transmissible Gastroenteritis virus (TGE)

**SITE PREPARATION:** The first step in any on-going sanitation program must be the removal of gross contamination and debris. This can be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, thoroughly clean all surfaces with soap or detergent and rinse with water.

**DISINFECTION/VIRUCIDE\* OF POULTRY/TURKEY EQUIPMENT, SWINE QUARTERS, LIVESTOCK FARMS, EQUINE QUARTERS, ANIMAL QUARTERS, AND KENNELS DIRECTIONS:** Apply 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water (450 ppm active) to hard, non-porous inanimate surfaces. Apply by cloth, mop, brush, sponge, auto scrubber, or

mechanical spray device, hand pump, coarse pump, or trigger spray device or be immersion. For spray applications, spray 6" - 8" inches from surface. Do not breathe spray. Allow surface to remain wet for 10 minutes. Immerse all halters and other types of hard, non-porous 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. Thoroughly scrub feed racks, mangers, troughs, automatic feeders, fountains and waterers, and other treated equipment, which may contact food and water with soap or detergent. Rinse with potable water before re-use. Change cloth, sponge, or towels frequently to avoid re-deposition of soil. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**VETERINARY CLINICS/ANIMAL LIFE SCIENCE LABORATORY/ANIMAL CARE FACILITIES/ANIMAL RESEARCH CENTERS/ANIMAL BREEDING FACILITIES/ZOOS/PET SHOP/ANIMAL HUSBANDRY/KENNELS/BREEDING AND GROOMING ESTABLISHMENTS/TACK SHOPS**

**DISINFECTION DIRECTIONS:** For cleaning and disinfecting hard, non-porous surfaces such as equipment, utensils, instruments, cages, kennels, stables, stalls and catteries, and other hard, non-porous surfaces, saturate with a use solution of 3 ounces of **FLO-QUAT SANITIZER** per 5 gallons of water (450 ppm active) so as to wet thoroughly. Apply by cloth, mop, brush, sponge, auto scrubber, mechanical spray device, hand pump, coarse pump, trigger spray device, or be immersion. For spray applications, spray 6" - 8" inches from surface. Do not breathe spray. Rub with brush, cloth, or sponge. Allow surfaces to remain wet for a period of 10 minutes. Immerse all halters and other types of hard, non-porous equipment used in handling and restraining animals, as well as forks, shovels, scrapers used in removing litter and manure in the use solution. Ventilates buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers, and other treated equipment that dispenses food or water with soap or detergent, and rinse with potable water before re-use. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**NON-FOOD CONTACT SANITIZING PERFORMANCE:** At 5 ounces of **FLO-QUAT SANITIZER** per 25 gallons of water use level (150 ppm active), **FLO-QUAT SANITIZER** is an effective one-step sanitizer with a 3 minute contact time against the following on hard, non-porous surfaces:

*Klebsiella pneumonia*

**SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN FOOD PROCESSING FACILITIES SHOE/BOOT BATH**  
**SANITIZER DIRECTIONS:** To prevent cross-contamination from area-to-area in animal areas, and the packaging and storage areas of food plants, shoe baths containing 1" inch of freshly made sanitizing solution must be placed at all entrances to buildings, hatcheries, and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a 1 ounce per 5 gallons of water (150 ppm active) **FLO-QUAT SANITIZER** use solution for 3 minutes prior to entering area. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

**FOR FOOT DIP OF WATER PROOF FOOTWEAR:** Use **FLO-QUAT SANITIZER** at 1 ounce per 5 gallons of water in foot dip tray. Shoe baths must contain at least 1" inch of freshly made solution and be placed at the entrances to buildings. Scrape shoes and place in diluted solution in bath daily or sooner if solution appears dirty.

**SHOE FOAM DIRECTIONS:** to prevent cross-contamination from area-to-area in animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5" - 2" inches thick made from a solution of 1 - 1.5 ounces of **FLO-QUAT SANITIZER** per 1 gallon of water (800 - 1,200 ppm active) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacturer of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 3 minutes prior to entering area. Foam area must be washed and replaced at least daily or when it appears visibly dirty.

**ENTRYWAY SANITIZING SYSTEMS:** To prevent cross contamination from area-to-area, set the system to deliver 1.25 - 2.5 ounces per 2.5 gallons of water (400 - 800 ppm active) of sanitizing solution. 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 to the sanitizing solution.

**LAUNDRY SANITIZER:** When added at the rate of 1 ounce of **FLO-QUAT SANITIZER** per 1 gallon of water, 12 ounces of this product per 100 lbs. of dry laundry (780 ppm active), this formulation provides sanitation against Staphylococcus aureus, Klebsiella pneumonia, Pseudomonas aeruginosa, and Methicillin resistant Staphylococcus aureus (MRSA) and is effective against HIV. **FLO-QUAT SANITIZER** is effective in rinse water up to 200 ppm hard water.

**LAUNDRY SANITIZING DIRECTIONS FOR USE:** **FLO-QUAT SANITIZER** is used in the final warm water rinse cycle at a low water level. Dilute the appropriate amount, 12 ounces per 100 lbs. of dry laundry (780 ppm active); then add to the wash in the final rinse or dispensing equipment. Run for a minimum of 5 minutes. Repeat as necessary. This product will not harm fabrics.

**DO NOT USE IN THE PRESENCE OF, OR MIX WITH OTHER CHEMICALS.**

**KILLS HIV-1 ON LAUNDRY IN INDUSTRIAL AND INSTITUTIONAL APPLICATIONS.** **FLO-QUAT SANITIZER** provides virucidal\* activity against HIV-1 on fabrics when pre-soaked with a 10 minute contact time, followed by normal washing in detergent and rinsing at a rate of 12 ounces of **FLO-QUAT SANITIZER** per 100 lbs. of dry laundry in water hardness of 400 ppm.

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS and DOMESTIC ANIMALS**

**DANGER. Keep out of Reach of Children.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

### **PHYSICAL OR CHEMICAL HAZARDS**

**Do not use or store near heat or open flame.**

**Do not mix with oxidizers, anionic soaps, and detergents**

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

**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.

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

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

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

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage and disposal.

**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.

**5 GALLON OR LESS CONTAINER DISPOSAL/PESTICIDE STORAGE/RESIDUE REMOVAL:** Non-refillable container. Store only in original container. Do not re-use empty container. Store pesticides away from food, pet food, feed, seed, fertilizers,

and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or person unfamiliar with its proper use. Triple rinse as follows: fill container  $\frac{1}{4}$  full with water and reclose the container. Agitate vigorously and dispose of rinsate. Repeat two more times. Wrap container and put in trash or offer for recycling if available.

**FOR CONTAINERS MORE THAN 5 GALLONS:** Open dumping is prohibited. Store only in original container. Do not re-use empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**CONTAINER DISPOSAL:** Non-refillable container. Do not re-use this container to hold materials other than pesticides or diluted pesticides. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by State and Local authorities. If rinsate cannot be used, follow pesticide disposal instructions.

**RESIDUE REMOVAL INSTRUCTIONS:** To clean the container before final disposal, empty the remaining contents from this container into application equipment. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Agitate vigorously or recirculate water for 30 seconds. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure 2 more times.

**PLEASE REFER TO PRODUCT LABEL FOR COMPLETE PRODUCT INFORMATION, FIRST AID, AND PRECAUTIONARY STATEMENTS.**