



DIRECTIONS FOR USE

DISINFECTION APPLICATIONS

Hard Non-Porous Surface Disinfection: To Clean, Disinfect and Deodorize Hard, Non-Porous Surfaces: For heavily soiled areas, a preliminary cleaning is required. Apply, wipe, spray, or dip Danolyte® at 500 ppm FAC to hard, non-porous surfaces with a cloth, wipe, mop or sponge. Treated surfaces must remain wet for 10 minutes. Allow surfaces to air dry. 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, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical devices prior to sterilization or high-level disinfection.

Special Instructions for Cleaning Prior to Disinfection against Clostridium difficile endospores:

Personal Protection: Wear appropriate barrier protection such as gloves, gowns, masks, or eye covering.

Cleaning Procedure: Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop, and/or sponge saturated with product intended for disinfection. Cleaning should include wiping and scrubbing, until visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms are to be cleaned in an appropriate manner, such as from right to left or left to right, on horizontal surfaces, and top to bottom, on vertical surfaces, to minimize spreading of spores. Restrooms are to be cleaned last. Do not reuse soiled cloths.

Infectious Materials Disposal: Cleaning materials used that may contain feces/wastes should be disposed of immediately in accordance with local regulations for infectious materials disposal.

Killing Clostridium difficile: Clean hard, non-porous surfaces by removing gross filth, loose dirt, debris, blood/bodily fluids, etc. Apply this product and let stand for 10 minutes.

Special Instructions for Using this product to Clean and Decontaminate against HIV on Surfaces/Objects Soiled with Blood/Body Fluids: This product kills HIV-1 on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals) 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.

Personal Protection: When handling items soiled with blood or body fluids, use appropriate barrier protection such as disposable latex gloves, gowns, masks, and eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces before applying this product.

Contact Time: Apply to area to be treated. Let stand for 10 minutes. Cleaning materials used that may contain feces/wastes should be disposed of in accordance with local regulations for infectious materials disposal.

Disposal of Infectious Material: Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

SANITIZING APPLICATIONS

This product is an effective multi-purpose sanitizer. This product is acceptable as a sanitizer for all hard non-porous surfaces in and around food processing areas.

Sanitize Hard, Non-Porous Non-Food Contact Surfaces:

For heavily soiled areas, a preliminary cleaning is required. Dilute 1:1.5 with water to prepare a 200 ppm FAC solution. May use chlorine test strips as an option to determine exact available chlorine concentration. Apply sanitizing solution with cloth, mop, sponge, spray or immersion. Treated surfaces must remain wet for 2 minutes. Allow surfaces to air dry. Danolyte® is an effective cleaner/sanitizer against bacteria such as Staphylococcus aureus (Staph) and Enterobacter aerogenes. This product kills 99.9% of bacteria with a 5% organic soil load in two minutes.

To Deodorize: Spray on surfaces as needed.

Hard, Non-Porous Food Contact Surfaces:

Sanitize Hard, Non-Porous Food Contact Surfaces: Dilute 1:1.5 with water to prepare a 200 ppm FAC solution. May use chlorine test strips as an option to adjust to desired chlorine level. Wash, wipe, or rinse items with detergent and water, then apply sanitizing solution with cloth, mop, sponge, spray or immersion. Let stand 1 minute and wipe dry with clean towel or allow to air dry. No rinsing required. For use on food contact surfaces such as [exterior surfaces of coolers, refrigerators, freezers, microwave ovens, ovens and stove tops which should be allowed to come to room temperature before sanitization, stainless steel utensils, plastic and nonporous cutting boards and chopping blocks, dishes, glassware, pots and pans, eating and cooking utensils, sinks, counter tops, tables, racks, carts, shelves, appliances, conveyor belts. This product is an effective sanitizer against Staphylococcus aureus (Staph) and Salmonella enterica (Salmonella).

To Use as a Glove Dip or Boot Wash: Dilute this product 1:1.5 with water to prepare a 200 ppm FAC solution. May use chlorine test strips as an option to adjust to desired chlorine level. This product meets AOAC Available Chlorine in Disinfectants chlorine equivalency against Salmonella enterica (ATCC 6539) and Staphylococcus aureus (ATCC 6538). This product meets the requirements of 2-301.16 Hand Antiseptics section of the U.S. PUBLIC HEALTH SERVICE FDA FOOD CODE.

ALLERGEN DESTRUCTION APPLICATIONS: To Destroy Specified Allergens: Dilute 1:4 to 1:1.5 with water to prepare a 100-200 ppm FAC sanitizing solution. As an option, use chlorine test strips to adjust to desired chlorine level. Apply sanitizing solution with paper towel, cloth, mop, sponge, spray or immersion. Treated surfaces must remain wet for 2 minutes. Allow surfaces to air dry. This product breaks down and destroys allergens: dust mite matter, dust mite debris, cockroach matter, cockroach debris, pet dander, dog dander, cat dander and pollen particles. Use often as desired.

Cut Flowers or Plants: For longevity of cut flowers or plants mix 1-2 ounces [(1/8 – 1/4 cup)] of Danolyte® per quart of water to make a 15-30 ppm FAC solution for use in flower vase or buckets to retard the growth of non-public health bacteria. Change solution if it gets murky or hazy. Spray diluted solution on plants or flowers to control bacteria growth.

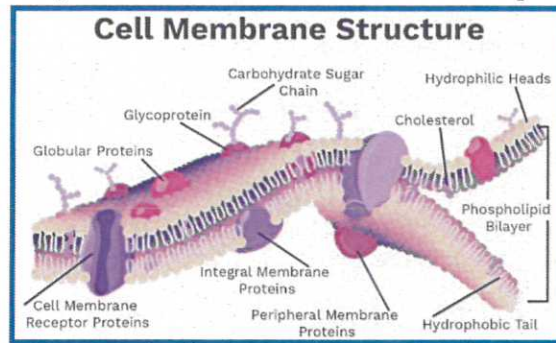
Sanitize Water Sensitive Electronic Equipment, Surfaces: Completely power off electrical equipment prior to treatment. Pre-clean soils from external surfaces to be sanitized with a clean paper towel, cloth, microfiber, or sponge, which may be dry or slightly wetted with this product. Dilute this product 1:1.5 with water to prepare a 200 ppm FAC solution. May use chlorine test strips as an option to adjust to desired chlorine level. Carefully apply sanitizing solution using a cloth or spray device so that only enough solution is applied to keep the surface thoroughly wet for 2 minutes. Avoid over soaking and prevent pooled or puddled areas. Treated surfaces must remain wet for 2 minutes. Reapply as necessary to keep wet for 2 minutes. Do not rinse. Allow surfaces to air dry. If hazy film or streaks appear after 2 minutes, wipe clean with a dry or slightly damp clean paper towel microfiber cloth. Do not restore power to electronic equipment until thoroughly dry.

HOW DANOLYTE® KILLS BACTERIA

A key property making Danolyte® lethal to microbes is its neutral electrical charge. The cell wall's function is to protect the integrity of the interior of the cell by allowing certain substances into the cell while keeping other substances out. The cell walls around bacteria have a net negative charge, thus repelling other negatively charged cells. The active ingredient in Danolyte® is a specific specie of chlorine, hypochlorous acid, which is neither positively nor negatively charged, so it can contact the outer cell wall. Chlorination significantly increases the permeability of the outer membrane, leaving the bacterium vulnerable to destruction.

Once contact is initiated with the outer cell wall, Danolyte® reacts with target sites on the cell surface and disrupts the cell wall barrier. Because of its neutral charge, it penetrates cell walls more easily than other chlorine species and is about 100 times more effective than sodium hypochlorite (household bleach) at chlorination disinfection.

In the process of this invasion, Danolyte® reacts chemically with the cell membrane and inactivates certain membrane-bound proteins necessary for DNA replication, leading to a swift decline in DNA synthesis which precedes inhibition of protein synthesis in the cell. The lack of protein synthesis causes proteins to lose their complex, origamilike structures and functionality. Once the proteins functionality is destroyed, the bacteria's ability to thrive is taken away and it dies. Thusly, bacterial inactivation by Danolyte® is the result of inhibition of DNA replication, and bacteria are not able to build resistance to it.



Danolyte® is lethal to viruses and bacteria, but non-toxic and safe for humans and the environment. Danolyte® is safe enough to use on baby's toys – with no rinse needed.

Danolyte® contacts the bacterial cell

Danolyte® chlorinates the cell and significantly increases the permeability of the outer membrane

The cell wall barrier is disrupted and penetrated by reactions of hypochlorous acid with target sites on the cell surface

Membrane-bound proteins are inactivated

Membrane associated functions are now effectively terminated

DNA synthesis quickly declines

Protein synthesis decreases

Proteins lose functionality

Termination of cellular functions within the cell

Bacteria cell is no longer viable

SEE OTHER SIDE

