



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 20, 2020

John Reilly  
Manager  
Regulatory Affairs  
Sterilex  
11 Lake Front Drive  
Hunt Valley, MD 21030

Subject: Label and CSF Amendment – Adding Not for Use in California and Adding Alternate CSFs  
Product Name: Sterilex Ultra Disinfectant Cleaner Solution 1  
EPA Registration Number: 63761-8  
Application Date: 09/24/2019  
Decision Number: 556283

Dear Mr. Reilly:

The amended label and CSFs referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated 04/30/2018
- Alternate CSF SUD1-50% dated 04/30/2018
- Alternate CSF SUDLF dated 04/30/2018
- Alternate CSF SUDLF70 dated 04/30/2018
- Alternate CSF SUD1HF dated 04/30/2018
- Alternate CSF SUDHF-70 dated 04/30/2018
- Alternate CSF SUD1-35% dated 04/30/2018
- Alternate CSF SUDLD35 dated 04/30/2018

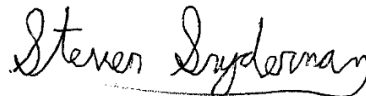
Sterilex Ultra Activator Solution CSFs

- Basic CSF Adjuvant A dated 04/30/2018
- Alternate CSF Adjuvant B dated 05/07/2018
- Alternate CSF Adjuvant C dated 04/30/2018
- Alternate CSF Adjuvant D dated 11/22/2019
- Alternate CSF Adjuvant E dated 11/22/2019
- Alternate CSF Adjuvant F dated 11/22/2019

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, you may contact Aline Heffernan at 703-347-8602 or via email at [Heffernan.Aline@epa.gov](mailto:Heffernan.Aline@epa.gov).

Sincerely,



Steven Snyderman, Acting Product Manager 33  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure: Stamped Label

**ACCEPTED**

02/20/2020

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 63761-8

# Sterilex® Ultra Disinfectant Cleaner Solution 1

Active Ingredients:

n-Alkyl (C<sub>12</sub> 68%, C<sub>14</sub> 32%) dimethylethylbenzyl ammonium chloride 3.00%

n-Alkyl (C<sub>14</sub> 60%, C<sub>16</sub> 30%, C<sub>12</sub> 5%, C<sub>18</sub> 5%) dimethylbenzyl ammonium chloride 3.00%

Hydrogen peroxide 6.30%

Inert Ingredients:

TOTAL: 87.70%

100.00%

KEEP OUT OF REACH OF CHILDREN

**DANGER**

See [back panel] [side panel] [booklet] [box] for [additional] [directions for use] [and] precautionary statement

**FIRST AID** [NOTE TO REVIEWER – This section will be visible on the front panel]

**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.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

**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.

**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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Call a Poison Control Center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

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

EPA Reg. No. 63761-8

EPA Est. No. \_\_\_\_\_ (NOTE TO REVIEWER – this may be printed on container itself)

Net Contents {1, 2.5, 5, 15, 30, 55, 275, 305, 330} Gallons (NOTE TO REVIEWER – this may be printed on container itself)

[Lot Number: \_\_\_\_\_][Batch Number: \_\_\_\_\_](NOTE TO REVIEWER – this may be printed on container itself)

[NOT FOR SALE OR USE AFTER: \_\_\_\_\_]

[Expiration Date][Exp. Date] [Expiry Date]

**Manufactured by**

STERILEX, LLC

111 Lake Front Drive

Hunt Valley, MD 21030

Phone (Toll-Free): 1-800-511-1659

Phone: (443) 541-8800

Fax: 410-581-8864

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear goggles and/or face shield, protective clothing and rubber gloves 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. 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 this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### **PHYSICAL AND CHEMICAL HAZARDS**

When exposed to fire, Sterilex Ultra Disinfectant Cleaner Solution 1 may release oxygen and oxides of carbon and/or nitrogen.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep product in closed original container when not in use. Store in a cool area away from potential sources of heat, open flames, sunlight or other chemicals. Store product below 90°F.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed [or pressure rinsed] these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations. Triple rinse [or pressure rinse] container (or equivalent) promptly after emptying.

[(NOTE TO REVIEWER: *The following language is for containers having a capacity of 5 gallons or less*) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.]

[(NOTE TO REVIEWER: *The following language is optional for containers having a capacity of 5 gallons or less when "or pressure rinse" appears in the above Container Disposal statement*) Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

[(NOTE TO REVIEWER: *The following language is for containers having a capacity greater than 5 gallons*) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

[(NOTE TO REVIEWER: *The following language is optional for containers having a capacity greater than 5 gallons when "or pressure rinse" appears in the above Container Disposal statement*) Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

*[For refillable containers*

Refillable container. Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning or pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the owner. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.]

*[NOTE TO REVIEWER: All use sites and marketing claims listed below are meant to be optional language on the final market label.]*

*[Optional Brand Names for Sterilex Ultra Disinfectant Cleaner Solution 1:*

*Sterilex Ultra CIP  
Sterilex Ultra Coi-AI San  
Ultra Disinfectant]*

*[Optional Brand Names for Sterilex Ultra Activator Solution:*

*Ultra Soft Metal Activator  
Ultra Activator SM  
Ultra Coi-AI Activator  
Ultra Aluminum Safe Activator  
Ultra Activator Plus  
Ultra Activator  
Ultra High Foam Additive]*

[POWERED BY] [BASED OFF OF] [BASED ON] [INCLUDING] [INCLUDES] [USING] [PATENTED] [PERQUAT®  
TECHNOLOGY]

FOR DISINFECTION AND SANTIZATION FOR PUBLIC HEALTH USES, THIS IS PART ONE OF A TWO-PART  
PRODUCT AND MUST BE USED WITH STERILEX ULTRA ACTIVATOR SOLUTION

FOR BIOCIDES AND NON-PUBLIC HEALTH USES, THE USE OF STERILEX ULTRA ACTIVATOR SOLUTION  
MAY NOT BE REQUIRED.

PLEASE CONSULT THE DIRECTIONS FOR USE FOR SPECIFIC INSTRUCTIONS.

[ONE-STEP DISINFECTANT – CLEANER] [DISINFECTANT]

SANITIZER

NON-FOOD CONTACT SURFACE SANITIZER

FOOD CONTACT SURFACE SANITIZER

[VIRUCIDE<sup>§</sup>]

[[Federally Inspected] Food Processing Facilities], [[Federally Inspected] Meat And Poultry Plants], [Pet Food Processing Facilities], [Dairies], [Wineries], [Breweries], [Beverage Manufacturing Facilities], [Dairy Farms], [Swine Farms], [Poultry] [And] [Turkey] Farms], [Farm Premises], [Hatcheries], [Refrigerated Trucks<sup>††</sup>], [Kennels], [Pet Animal Quarters], [Zoos], [Pet Shops], [Animal Laboratories], [Veterinary Facilities], [Animal Care Facilities]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is for use on washable hard, nonporous surfaces in:] {hospitals, medical and dental offices, nursing homes, health care facilities, ultrasonic baths (ultrasonic cleaning units), federally inspected food processing facilities, federally inspected meat and poultry plants, dairies, wineries, breweries, beverage manufacturing facilities, dairy farms, swine farms, poultry

and turkey farms, farm premises, hatcheries, brooders, refrigerated trucks<sup>††</sup>, kennels, pet animal quarters, zoos, pet shops, animal laboratories, veterinary facilities, animal care facilities, transportation terminals, hotels and motels, factories, business and office buildings, barber shops, salons, boats, ships, campers, trailers, mobile homes, homes, kitchens, bathrooms, household areas, cars, buses, trains, taxis, airplanes, restaurants, bars, cafeterias, institutional kitchens, food preparation and storage areas, convenience stores, food storage areas, public rest rooms, institutions, schools and colleges, athletic facilities, sports facilities, gym rooms, locker rooms, dressing rooms, shower and bath areas, exercise equipment, large, inflatable, non-porous plastic and rubber structures (animals, promotional items, moonwalk, slides, obstacle course play equipment, exercise equipment and wrestling mats). }

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is for use on washable hard, nonporous surfaces including:]

{Medical machines (x-ray, MRIs, CAT scanners), and equipment surfaces (that do not penetrate the body or contact the human bloodstream or mucous membranes);}

{Steam sterilizer water reservoirs, steam sterilizer water reservoir tubing;}

{Water reservoir tanks, water reservoir pipes, tanks, and piping systems used in food processing;}

{Trench drains, floor drains and other visible drain surfaces}

{Floors, walls, countertops, stovetops, sinks, appliances, refrigerators (exteriors), plastic and other nonporous cutting boards and chopping blocks; coolers, ice chests; nonresidential refrigerator bins (exteriors) for meat, fruit, vegetable and egg; food processing equipment (k-pac equipment, injectors, slicers, knives, steel mesh gloves, deboners, saws, grinders, cutters, racks, dairy equipment, interlocking belts, spiral freezers<sup>††</sup>, HVAC units, cooling coils, individual quick freezing (IQF) freezers<sup>††</sup>, cooling tunnels, refrigeration units, outside surfaces of kitchen equipment, beer fermentation and holding tanks, brewery pasteurizers, wine fermentation tanks, beverage dispensing equipment, beverage transfer lines, bottling or premix dispensing equipment); }{Drinking water coolers, ice making machines<sup>††</sup>, transfer line tubing, water lines, watering systems, farm animal nipple drinkers;}

{Cabinets, highchairs, garbage cans, garbage storage areas, refrigerated storage and display equipment (exteriors), tables, picnic tables (non-wooden and finished/sealed or painted), outdoor furniture, chairs, desks, telephones, doorknobs, shower stalls, tubs and glazed tiles, whirlpool bathtubs, bathtubs, sinks, urinals, exterior toilet bowl surfaces, other bathroom fixtures; }

{Kennel runs, nest pads, cages, waterers and feeders, automatic feeders, hauling equipment, dressing plants, loading equipment, farrowing barns and related areas (nursery blocks, creep areas), chutes, feed racks, mangers, troughs, fountains and waterers, forks, shovels, scrapers, barns, pens, stalls, facilities and fixtures occupied or traversed by animals, hatchery areas (egg receiving and holding, setter room, tray dumping, chick holding, processing and loading), trays, buggies, racks, egg flats, trucks, reapers, poultry buildings, ceilings, sidewalls and floors, drinkers and other poultry house related equipment;}{Coils and drain pans of air conditioning and refrigeration equipment and heat pumps, conductive flooring;}

{Nonporous salon/barber tools and instruments (combs, brushes, scissors, blades, pedicure and manicure instruments, pedicure and manicure tubs); }

{Hard nonporous surfaces, listed on this label, that are made of metal, stainless steel, glazed porcelain, glazed ceramic, sealed stone, hard fiberglass (bathtubs, tubs, shower stalls, and sinks), plastic (such as polystyrene, polypropylene), glazed porcelain tiling, enameled surfaces, finished/sealed and painted woodwork

[Disinfects and deodorizes by killing [most] germs and their odors]

[Quickly removes soap scum from shower tile, fiberglass, chrome and glass, toilet bowls, sinks, tubs and spas]

[Specifically formulated for maximum stability]

[Made in [The USA][The United States]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, kills household germs in ten minutes; effective against *Streptococcus pyogenes* (*Strep*), *Pseudomonas aeruginosa* (*Pseudomonas*), *Staphylococcus aureus* (*Staph*) while effectively controlling mold and mildew.]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, cleans and deodorizes surfaces by killing odor-causing microorganisms and [preventing] [inhibiting][controlling] the growth of mold and mildew.]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, [kills] pathogens in ten minutes<sup>†</sup>;

† Effective against][Such as] [*Streptococcus pyogenes (Strep)*] [*E. coli*] [*Listeria monocytogenes*] [and] [*Salmonella enterica*]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, eliminates odors caused by bacteria, mildew, and non-fresh foods.]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, controls mold and mildew on large, inflatable, non-porous plastic and rubber structures (such as animals, promotional items, moonwalk, slides, obstacle course play equipment, exercise equipment and wrestling mats).]

[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, cleans and deodorizes surfaces in locker rooms, gym rooms and sports facilities by killing odor-causing microorganisms and [preventing] [inhibiting] [controlling] the growth of mold and mildew.]

[Removes\*\* biofilm from dental unit water lines

\*\*laboratory studies show >90% removal]

[Reduces formation of biofilm in dental unit water lines]

[Kills biofilm bacteria]

[Maintains [dental unit water] line effluent water <500 cfu/ml]

[Controls [bacteria\*] [biofilm] found in harborage niches]

For control of biofilm found on hard, non-porous [environmental] [surfaces] [including] [but not limited to]

[associated with] [restrooms, floors, shower stalls, sink basins, drain covers, walls, countertops, instrument trays in patient care areas of hospitals, healthcare, clean room, and residential environments]

[Kills] [Controls] slime-forming bacteria

[Kills][Controls] 99.9999% of bacteria\* in biofilms on a hard, non-porous surface

[Controls] [Kills] a minimum of 99.9999% of bacteria\* in biofilms

Reduces at least 99.9999% of bacteria\* growing in biofilms

[Proven] [Formulated] to kill 99.9999% of bacteria\* in biofilms

Penetrates [biofilms] [biofilm matrix] [biofilms found in harborage niches], killing the [pathogenic] bacteria\* living there

Kills biofilm bacteria\* on non-food contact surfaces



\*[*Pseudomonas aeruginosa* and *Staphylococcus aureus*]

[Germicide and disinfectant][Antibacterial] [Antifungal] [Bactericide] [Bactericidal]

[May be corrosive to metal] [when used with Sterilex Ultra Activator Solution]

[Staphylocidal<sup>¥</sup>] – [Pseudomonacidal<sup>¥</sup>] – [Salmonellacidal<sup>¥</sup>] – [Virucidal<sup>§</sup>] – [Fungistat/Mildewstat]

[Effective against mycotoxin-producing molds<sup>†</sup>]

<sup>†</sup>*Aspergillus niger*

[Reduces cross-contamination [and spread of germs] between treated surfaces [in high traffic areas]]

[Helps reduce cross contamination of [Avian Influenza A] [animal] [avian] virus[es]<sup>§</sup> between treated hard, nonporous surfaces [in [food plants] [animal health facilities]]]

<sup>§</sup>Avian Influenza A virus, PED virus, PRRS virus, and Newcastle Disease virus

[Kills germs, bacteria, and viruses<sup>§</sup> [household germs] within 10 minutes]

[Effective, economical and convenient germicide]

[Use this product to sanitize or disinfect hard, nonporous surfaces in chicken houses, brooders, and other poultry equipment to help reduce cross contamination of [Avian Influenza A][animal and avian<sup>§</sup>] virus[es] between treated surfaces [in [food plants] [animal health facilities]]]

<sup>§</sup>Avian Influenza A virus, PED virus, PRRS virus, and Newcastle Disease virus

[This product is a quick and effective deodorizer.][This product is an essential institutional item]

[This product does not [need][require] hot water to work]

[Effective against spoilage microorganisms<sup>‡</sup> that can adversely affect product quality.]

<sup>‡</sup>For a list of organisms, see directions for use.

[Deep][Powerful] cleaning benefits]

[Essential] [Deep] cleaner]

[Makes cleaning easy]

[Versatile] [Multi-purpose cleaner]



[Concentrated [power] [foam] to clean]

[Compatible with] [Safe on] soft metals, including aluminum]

[Soft metal disinfection and sanitization applications include spiral freezers<sup>††</sup> and chillers]

[Optimized for use in (spiral freezers<sup>††</sup>) (chillers) (individual quick freezing (IQF) freezers<sup>††</sup>) (cooling tunnels) and other soft metal surfaces]

[Helps reduce cross contamination between treated surfaces]

[Compatible with] [Safe on] aluminum surfaces, (including) (specifically): Al 1100, Al 3003, Al 5052]

[Compatible with] [Safe on] stainless steel and soft metal surfaces including: [Aluminum], [Copper]

[Semi-compatible with [Al 7075] [Brass] [Carbon Steel]]

[Not for use on galvanized surfaces]

[Contact Sterilex for full compatibility profile]

[When mixed with Ultra Soft Metal Activator, this product is [compatible with] [safe on] the following material surfaces: [Al 1100], [Al 5052], [Al 3003], [Bronze], [Copper], [SS 304], [SS 316]]

[Note: This product may also be [compatible with] [safe on] materials that have not been listed on this label. If you have any questions regarding the compatibility of this product, please contact [your local distributor][Sterilex]].

[Cost-effective disinfectant]

[Nipple drinker lubricant]

[Disinfects and lubricates nipple drinkers]

## **DIRECTIONS FOR USE**

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

For disinfection and sanitization for public health uses, this is part one of a two-part product and must be used with Sterilex Ultra Activator Solution.

For biocide and non-public health uses, the use of Sterilex Ultra Activator Solution, may not be required.

Ultra Soft Metal Activator may replace Sterilex Ultra Activator Solution in all listed claims and application instructions.

Please consult the directions for use for specific instructions

## **PRECLEANING INSTRUCTIONS (OPTIONAL STEP):**

Although Sterilex Ultra Disinfectant Cleaner Solution 1 provides one-step cleaning and disinfection, precleaning may be desired for some areas, articles and surfaces in certain cases. Prepare a precleaning solution by adding 1 –12.8 fl. oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and an equivalent amount of Sterilex Ultra Activator Solution per 1 gallon of water, depending on the level of gross [filth] [soil] to be precleaned. [If high foam is desired, refer to High Foam Application Instructions.] Clean surfaces with precleaning solution by pouring, wiping, brushing, scrubbing, foaming, spraying with a coarse trigger sprayer, sponging, immersing, using a clean in place (CIP) system, pumping it through the system, drawing it through the system or mopping. Rinse all food contact surfaces thoroughly with a potable water rinse.

## **SANITIZATION DIRECTIONS**

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, reduces the following bacteria by 99.9% in 3 minutes according to the Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces:

[*Enterobacter aerogenes* [ATCC 13048]]  
[*Staphylococcus aureus* [ATCC 6538]]

#### SANITIZING DIRECTIONS FOR NON-FOOD CONTACT SURFACES:

Add 2 – 4 fl. oz. [59.1 -118.3 mL] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 4 fl. oz. [59.1 -118.3 mL] of Sterilex Ultra Activator Solution to 1 gallon 3.79 L] of water (1:1:64 – 1:1:32) (or equivalent use dilution) to sanitize hard, non-porous surfaces. Apply sanitizer use solution to pre-cleaned, hard, non-porous surfaces using a cloth, mop, sponge, sprayer or foaming device. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, foaming, sponging, using a clean in place (CIP) system, pumping it through the system, drawing it through the system, mopping or by immersion. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-9 inches [15-22 cm] from surface. [If high foam is desired, refer to High Foam Application Instructions.] Do not breathe spray. Treated surfaces must remain visibly wet for 3 minutes, then wipe with sponge, mop or cloth, rinse, or allow to air dry. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### SANITIZING DIRECTIONS FOR FOOD CONTACT SURFACES:

Add 2 - 4 fl. oz. [59.1 - 118.3 mL] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 4 fl. oz. [59.1 – 118.3 mL] of Sterilex Ultra Activator Solution to 1 gallon 3.79 L] of water (1:1:64 – 1:1:32) (or equivalent use dilution) to sanitize hard, non-porous surfaces. Apply sanitizer use solution to pre-cleaned, hard, non-porous surfaces using a cloth, mop, sponge, sprayer or foaming device. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, foaming, sponging, using a clean in place (CIP) system, pumping it through the system, drawing it through the system, mopping or by immersion. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-9 inches [15-22 cm] from surface. [If high foam is desired, refer to High Foam Application Instructions.] Do not breathe spray. Allow surfaces to remain visibly wet for at least 3 minutes. Rinse all surfaces thoroughly with a potable water rinse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### ☞ ONE STEP DISINFECTION AND CLEANING DIRECTIONS FOR HARD, NON-POROUS SURFACES

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is a one-step, cleaner and hospital-use disinfectant at 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 [378.5 – 473.2 ml] fl. oz. of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution. [If high foam is desired, refer to High Foam Application Instructions.] Bactericidal according to the current AOAC Use-Dilution Test Method modified in the presence of 400 ppm hard water plus organic soil against:

[*Pseudomonas aeruginosa* (*Pseudomonas*) [ATCC 15442]]  
[*Staphylococcus aureus* (*Staph*) [ATCC 6538]]  
[*Staphylococcus aureus* – Methicillin Resistant [ATCC 33591] [MRSA]]  
[*Salmonella enterica* (*Salmonella*) [ATCC 10708]]  
[*Salmonella enterica* subspecies *enterica* serovar Enteritidis (*S. Enteritidis*) [ATCC 13076]]  
[*Salmonella enterica* subspecies *enterica* serovar Heidelberg (*S. Heidelberg*) [ATCC 8326]]  
[*Escherichia coli* O157:H7 [ATCC 35150]]  
[*Listeria monocytogenes* [ATCC 19111]]  
[*Campylobacter jejuni* [ATCC 29428]]  
[*Cronobacter sakazakii* [ATCC 29004]] [Claim pending approval in California]

#### APPLICATION INSTRUCTIONS:

To clean and disinfect in one step, remove gross [filth] [soil] from all areas, articles and surfaces to be disinfected using a pre-clean, pre-flush, or pre-scrape and, if necessary, presoak. Mix 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, foaming, spraying with a coarse trigger sprayer, sponging, using a clean in place (CIP) system, pumping it through the system, drawing it through the system, mopping or immersion. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-9 inches [15-22 cm] from surface. [If high foam is desired, refer to High Foam Application Instructions.] Do not breathe spray. Allow surfaces to remain visibly wet for at least 10 minutes. Rinse all food contact surfaces

thoroughly with a potable water rinse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. [For initial start-up, repeat on all surfaces for [3] [3-5] consecutive {nights, treatments}]. [For routine maintenance applications treat all surfaces 1x/week, or as needed to maintain environmental counts.]

**[TOUGH][HEAVY DUTY] [SOIL] [INANIMATE SCUM] [INANIMATE MATERIAL] REMOVAL APPLICATION INSTRUCTIONS**

Preclean surfaces per the Precleaning Instructions. Mix 64.0 fl. oz. [1892.7 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 64.0 fl. oz. [1892.7 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:2), or equivalent use dilution. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, spraying, sponging, mopping, or immersion. Allow surfaces to remain visibly wet for at least 10 minutes. Do not breathe spray. Rinse all food contact surfaces thoroughly with a potable water rinse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. For a more concentrated option, prepare a 1:1 solution by mixing equal parts Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. Do not use Ultra Soft Metal Activator at the 1:1 or 1:1:2 application rate. [Claim pending approval in California]

**HIGH FOAM APPLICATION INSTRUCTIONS**

Prepare a 1:1 solution by mixing equal parts Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, foaming, spraying, sponging, mopping, or immersion. Allow surfaces to remain visibly wet for at least 10 minutes. Do not breathe spray. Rinse all food contact surfaces thoroughly with a potable water rinse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. For a less concentrated, high foam option, mix 64.0 fl. oz. [1892.7 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 64.0 fl. oz. [1892.7 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:2). [Ultra High Foam Additive may be added to mixed solution to enhance foam]. Do not use Ultra Soft Metal Activator at the 1:1 or 1:1:2 application rate. [Claim pending approval in California]

**Kills Biofilm Bacteria [on] [in] [insert hard, non-porous use site]**

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, effectively penetrates biofilm and kills the following biofilm bacteria:

[*Pseudomonas aeruginosa* (*Pseudomonas*) [ATCC# 15442]]

[*Staphylococcus aureus* (*Staph*) [ATCC# 6538]]

**APPLICATION INSTRUCTIONS:**

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per the [Tough][Heavy Duty][Soil] [Inanimate Scum] [Inanimate Material] Removal Application Instructions. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. [Claim pending approval in California]

**SPOILAGE ORGANISMS**

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution kills the following spoilage organisms on hard, non-porous inanimate surfaces in one step at the concentrations listed in the table below, according to the current AOAC Use-Dilution Test Method modified in the presence of 400 ppm hard water plus organic soil.

<b>Spoilage Organism</b>	<b>Concentration</b>
[ <i>Zygosaccharomyces parabaillii</i> [(ATCC 56075)]]	[4 - 8 oz. [118.3 – 236.6 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 4- 8 oz. [118.3 – 236.6 ml] of Sterilex Ultra Activator Solution per gallon of water (1:1:32– 1:1:16)]
[ <i>Trichophyton mentagrophytes</i> [(ATCC 9533)]]	[12.8 - 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon of water (1:1:10 – 1:1:8)]

[If high foam is desired, refer to High Foam Application Instructions.]

**§VIRUSES**

## Avian Influenza

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is effective against Avian Influenza A on hard, non-porous inanimate surfaces in one step at 2 - 4 fl. oz. [59.1 – 118.3 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 4 fl. oz. [59.1 – 118.3 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:64 – 1:1:32), with a 5 minute contact time in the presence of 400 ppm hard water and organic soil. Remove gross [filth] [soil] from all areas, articles and surfaces to be disinfected using a pre-clean, pre-flush, or pre-scrape and, if necessary, presoak. Mix 2 - 4 fl. oz. [59.1 – 118.3 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 4 fl. oz. [59.1 – 118.3 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, foaming spraying with a coarse trigger sprayer, sponging, using a clean in place (CIP) system, pumping it through the system, drawing it through the system or mopping. Allow surfaces to remain visibly wet for at least 5 minutes. [If high foam is desired, refer to High Foam Application Instructions.] Do not breathe spray. Rinse all food contact surfaces thoroughly with a potable water rinse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is effective against the following viruses on hard, non-porous inanimate surfaces in one step at the concentrations listed in the table below, with a 10 minute contact time in the presence of 400 ppm hard water and organic soil.

<b>Virus</b>	<b>Concentration</b>
[Feline calicivirus]	[12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8)]
[Norovirus]	[12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8)]
[Rotavirus]	[12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8)]
[Newcastle Disease Virus]  [Claim pending approval in California]	[12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8)]
[Porcine Respiratory & Reproductive Syndrome (PRRS) Virus]  [Claim pending approval in California]	[12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8)]

## PED Virus

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is effective against Porcine Epidemic Diarrhea Virus (PEDv) on hard, inanimate surfaces at 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution, with a 10 minute contact time in the presence of 400 ppm hard water. Remove gross [filth] [soil] from all areas, articles and surfaces to be disinfected using a pre-clean, pre-flush, or pre-scrape and, if necessary, presoak. Mix 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water. Thoroughly wet surfaces by pouring, wiping, brushing, scrubbing, foaming spraying with a coarse trigger sprayer, sponging, using a clean in place (CIP) system, pumping it through the system,

drawing it through the system or mopping. Allow surfaces to remain visibly wet for at least 10 minutes. [If high foam is desired, refer to High Foam Application Instructions.] Do not breathe spray. Rinse all food contact surfaces thoroughly with a potable water rinse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **CONTROL OF NON-PUBLIC HEALTH, VEGETATIVE, SPORE-FORMING BACTERIA**

To reduce the number of food spoilage non-public health microorganisms *Bacillus coagulans* [ATCC 7050], *Alicyclobacillus acidoterrestris* [ATCC 49025] and *Geobacillus stearothermophilus* [ATCC 7953], apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per One Step Disinfection and Cleaning Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. [Claim pending approval in California]

#### **FUNGISTAT/MILDEWSTAT**

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, controls the growth of mold and mildew organisms (*Aspergillus niger*, [ATCC# 6275]) and the odors they cause on hard, non-porous surfaces in one step at 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution, according to the current AOAC Use-Dilution Test Method modified in the presence of 400 ppm hard water plus organic soil. [If high foam is desired, refer to High Foam Application Instructions.] Allow surfaces to remain visibly wet for at least 10 minutes.

[(For food processing or other facilities that have installed entryway sanitizing systems)]

#### **ENTRYWAY SANITIZING SYSTEMS:**

Set the entryway system to apply 2 - 16 fl. oz. [59.1 – 473.2 mL] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 16 fl. oz. [59.1 – 473.2 mL] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:64 – 1:1:8), or equivalent use dilution. The entire doorway path must be covered with the [spray] [foam] [footbath]. Ensure a continuous wet blanket of sanitizer solution is delivered to the [floor] [bath]. [If high foam is desired, refer to High Foam Application Instructions.] Allow surfaces to remain visibly wet for at least 3 minutes.

#### **SANITIZATION OF HARD, NON-POROUS [INANIMATE] [ENVIRONMENTAL] SURFACES ON [PERSONAL PROTECTIVE EQUIPMENT] [PPE]:**

[Add] [Mix] 2 - 4 fl. oz. [59.1 – 118.3 mL] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 4 fl. oz. [59.1 – 118.3 mL] of Sterilex Ultra Activator Solution [per] [to] 1 gallon [3.79 L] of water (1:1:64 – 1:1:32), or equivalent use dilution. Gently mix for uniform solution. Apply solution to hard, non-porous [inanimate] [environmental] surfaces of the [Personal Protective Equipment] [PPE] with a brush, cloth, mop, sponge, auto scrubber, spray, foam or by immersion. Thoroughly wet all surfaces to be sanitized. Treated surfaces must remain visibly wet for three (3) minutes. Remove excess solution from equipment prior to storage. Change cloth, sponge or towels frequently to avoid redeposition of soil. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **SHOE FOAM DIRECTIONS:**

Apply a foam layer that is approximately 0.5 to 2 inches [1.2 cm to 5 cm] thick at all entrances using a foam generating machine or aerator and a solution containing 2 - 16 fl. oz. [59.1 – 473.2 mL] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 16 fl. oz. [59.1 – 473.2 mL] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:64 – 1:1:8), or equivalent use dilution. [If high foam is desired, refer to High Foam Application Instructions.] Scrape waterproof shoes and boots. Walk through foam. Boots must remain visibly wet for at least 3 minutes. Foam entranceways must be washed and the foam replaced at least daily or when it foam/area appears dirty. Apply foam to entrances of buildings, hatcheries, production and packaging rooms to reduce cross contamination between treated surfaces in the packaging and storage areas of food plants.

#### **CLEANING AND DISINFECTION OF POTABLE WATER, FOUNTAIN DRINK OR BEVERAGE PREPARATION, STORAGE, TRANSFER AND DISPENSING EQUIPMENT:**

[Confirm compatibility of Storage, Transfer and Dispensing equipment before use of this product.]



Prepare enough solution to complete fill storage, transfer and dispensing equipment by adding 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution to 1 gallon [3.79 L] tap water (1:1:10 – 1:1:8), or equivalent use dilution, in an appropriate container and stir. [If high foam is desired, refer to High Foam Application Instructions.] Completely fill storage, transfer and dispensing equipment with the prepared solution. Allow the mixture to remain in contact with the surfaces of the storage, transfer and dispensing equipment for at least 10 minutes. Drain storage, transfer and dispensing equipment. Rinse storage, transfer and dispensing equipment with potable water.

## **DISINFECTION AND SANITIZATION OF DRAINS, TRENCH DRAINS, FLOOR DRAINS AND OTHER HARD, NON-POROUS DRAIN SURFACES**

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. [Claim pending approval in California]

### **FOGGING**

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, controls odors in hatcheries, farms, animal health facilities, food plants, and other use sites when applied at a rate of 2 – 16 fl. oz. [59.1 – 473.2 mL] Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 – 16 fl. oz. [59.1 – 473.2 mL] Sterilex Ultra Activator Solution per gallon [3.79 L] of water.

People, animals, food products, and packaging material must be removed from the room/barn/building or carefully protected prior to fogging. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging. The area must be vacated of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed with potable water prior to reuse.

Fog desired areas using 1 gallon [3.79 L] per 4000 cubic feet [113.26 cubic meters] of room area with a solution containing 2 – 16 fl. oz. [59.1 – 473.2 mL] Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 – 16 fl. oz. [59.1 – 473.2 mL] Sterilex Ultra Activator Solution to 1 gallon [3.78 L] of water (1:1:64 – 1:1:8), or equivalent use dilution. following fogger manufacturer's directions for use. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner and Activator Solution.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. No one is allowed to enter the room or building within two hours of the actual fogging under any circumstances. If the room or building must be entered, then the individuals must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants. All surfaces must be cleaned and disinfected in accordance with label directions prior to fogging.

[Do not use thermal foggers with this product.] [Claim pending approval in California]

### **DEODORIZATION DIRECTIONS**

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution. [Claim pending approval in California]

## **DISINFECTION AND SANITIZATION OF FOOD PROCESSING EQUIPMENT AND HARD SURFACES IN FOOD PROCESSING FACILITIES, BREWERIES, WINERIES AND OTHER BEVERAGE MANUFACTURING FACILITIES, RESTAURANTS, BARS, CAFETERIAS, INSTITUTIONAL KITCHENS, CONVENIENCE STORES, FOOD PREPARATION AREAS, FOOD STORAGE AREAS AND FOOD SERVICE AREAS:**

### **NOTE:**

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected. Follow all applicable local health and sanitation codes for sanitizing food processing equipment post-disinfection.

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Rinse food contact surfaces with potable water before reuse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

**DISINFECTION AND SANITIZATION OF [VETERINARY FACILITIES], [ANIMAL CARE FACILITIES], [ANIMAL LABORATORIES], [ZOOS], [PET SHOPS], [KENNELS AND ANIMAL QUARTERS], [FARM AND DAIRY FARM PREMISES], [SWINE PREMISES], [FARM AND DAIRY FARM PREMISE EQUIPMENT], [SWINE PREMISE EQUIPMENT], [ANIMAL PREMISES][SICK ANIMAL BARNS].**

Remove all animals and feed from premises/room/barn/building, vehicles, and enclosures. Remove all litter 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. Optionally, preclean surfaces per the Precleaning Instructions. Saturate all surfaces with a solution of Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution, as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. [If high foam is desired, refer to High Foam Application Instructions.] 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. Ventilate buildings, cars, boats and other closed spaces. Allow to air dry. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Rinse food contact surfaces with potable water before reuse. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

**DISINFECTION OF POULTRY PREMISES, POULTRY EQUIPMENT, BROODERS AND HATCHERIES**

Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Optionally, preclean surfaces per the Precleaning Instructions. Saturate surfaces with the Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution, as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. [If high foam is desired, refer to High Foam Application Instructions.] Ventilate buildings, coops, and other closed spaces. Allow to air dry. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Rinse food contact surfaces with potable water before reuse.

Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

**SANITIZING [AND] [OR] [BIOFILM REMOVAL\* IN] NON-POROUS ANIMAL DRINKING LINES:**

This product can be used to [sanitize] [and] [or] [remove biofilms\* found in] tanks, pumps or medicators used to deliver the product, piping and tubing associated with water lines in animal, livestock and poultry housing facilities. The water lines can be used for delivering drinking water, air chiller water and cooling spray lines. Prior to use in the water lines, remove all animals, livestock or birds from [premises][room][barn][building]. Do not reintroduce animals, livestock or birds until treatment is complete and water lines have been thoroughly rinsed with potable water.

Ensure all animals are removed from the [premises][room][barn][building]. Apply sanitizing solution to the lines by adding 2 - 4 fl. oz. [59.1 – 118.3 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 2 - 4 fl. oz. [59.1 – 118.3 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:64 – 1:1:32), or equivalent use dilution, to the drinking water system. Fill the system by pumping it through the system or drawing it through the system. Make sure there is enough solution to fill the lines. Trigger drinkers to ensure solution flows over the nipple. If a drinker is not working, continue to trigger it until water flows freely. Allow surfaces to remain visibly wet for at least 3 minutes. Flush system thoroughly with a potable water rinse.

[If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.



[\*Biofilm removal claim [at rates below 1:1:10 are][is] not approved in California.] Biofilm removal claim for non-public health uses only.] [Claim pending approval in California]

### **[CLEANING] [AND] [DISINFECTION] [AND] [BIOFILM REMOVAL\* IN] [OF] NON-POROUS ANIMAL DRINKING LINES:**

This product can be used to [clean] [and] [disinfect] [and] [remove biofilms\* found in] tanks, pumps or medicators used to deliver the product, piping and tubing associated with water lines in animal, livestock and poultry housing facilities. The water lines can be used for delivering drinking water, air chiller water and cooling spray lines. Prior to use in the water lines, remove all animals, livestock or birds from [premises][room][barn][building]. Do not reintroduce animals, livestock or birds until treatment is complete and water lines have been thoroughly rinsed with potable water.

Ensure all animals are removed from the [premises][room][barn][building]. Apply solution to the lines by adding 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution, to the drinking water system. Fill the system by pumping it through the system or drawing it through the system. Make sure there is enough solution to fill the lines. Trigger drinkers to ensure solution flows over the nipple. If a drinker is not working, continue to trigger it until water flows freely. Allow surfaces to remain visibly wet for at least 10 minutes. Flush system thoroughly with a potable water rinse.

[If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

[\*Biofilm removal claim is not approved in California.] Biofilm removal claim for non-public health uses only] [Claim pending approval in California]

### **DISINFECTION AND SANITIZATION IN VEHICLES, INSTITUTIONS, INDUSTRIAL FACILITIES, SCHOOLS, ATHLETIC FACILITIES, REST ROOMS, HOTELS, MOTELS, OFFICE BUILDINGS AND OTHER PUBLIC AREAS, AND HOUSEHOLDS:**

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

### **DISINFECTION OF SALON (BARBER) INSTRUMENTS AND TOOLS:**

#### **APPLICATION INSTRUCTIONS:**

Add 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution to 1 gallon [3.79 L] tap water (1:1:10 – 1:1:8), or equivalent use dilution, in an appropriate plastic container and stir. [If high foam is desired, refer to High Foam Application Instructions.] Completely immerse combs, brushes, rollers, manicure and other hard, nonporous salon instruments and tools for 10 minutes. Allow surfaces to remain visibly wet for at least 10 minutes. Rinse all thoroughly with potable water and dry before use. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

NOTE: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried and kept in a clean, non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

**Commercial AGRICULTURAL OR INDUSTRIAL water system injection for the oxidation of odors when they form:** In well systems, Sterilex Ultra Disinfectant Cleaner Solution 1 is injected with a peristaltic pump through a ¼ inch plastic tube (or other comparable injection system) inserted into the well all the way to the well intake screens. The most distant faucet is tested with a supplied test strip until a residual of 20-25 ppm hydrogen peroxide is detected indicating that the system has been thoroughly treated. The injection pump should then be adjusted to deliver 25 ppm on a consistent basis to the water system. When treating the watering system for sick animals, the

most distant faucet is tested with a test strip until a residual of 100-1,000 ppm hydrogen peroxide is detected indicating that the system has been thoroughly treated. When this level is reached the injection is immediately reduced until the test strip indicates the 25 ppm is reached and the system is maintained at the 25 ppm level. This process can be repeated monthly to ensure a clean water system and avoid screen clogging. [Claim pending approval in California]

#### **WATER AND SMOKE DAMAGE REMEDIATION AGAINST ODOR-CAUSING BACTERIA AND FUNGI IN HOSPITAL, INSTITUTIONAL AND INDUSTRIAL AREAS:**

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is for use in water and smoke damage remediation to control odor causing bacteria and fungi on porous and semi-porous materials such as subflooring, drywall, lumber (trim and frame), tackles strip and paneling.

#### **REMEDICATION PROCESS FOR SEWER BACKUP AND RIVER FLOODING:**

Mix 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution, allowing for the dilution by absorbed water within the affected materials. [If high foam is desired, refer to High Foam Application Instructions.] Remove gross filth, heavy soil and non-salvageable materials. Saturate all affected materials directly with a sprayer using a coarse spray tip before and after cleaning and extraction. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **REMEDICATION PROCESS FOR POROUS MATERIALS SUCH AS SUBFLOORING, DRYWALL, LUMBER (TRIM AND FRAME), TACKLESS STRIP AND PANELING:**

If water damage is from a clean source, extract excess water from affected materials. Mix 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution, allowing for the dilution by absorbed water within the affected materials. [If high foam is desired, refer to High Foam Application Instructions.] Remove gross filth, heavy soil and non-salvageable materials. Saturate all affected materials directly with a sprayer using a coarse spray tip. Roll, brush or agitate use solution into affected materials and allow affected materials to remain saturated for ten minutes. Follow with a thorough extraction of the affected materials to remove excess moisture. Dry affected materials rapidly and thoroughly. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **REMEDICATION PROCESS FOR SMOKE DAMAGE AGAINST ODOR CAUSING BACTERIA AND FUNGI IN HOSPITAL, INSTITUTIONAL AND INDUSTRIAL AREAS SUCH AS MOTELS, HOTELS, NURSING HOMES, AND SCHOOLS:**

Follow applicable instructions outlined in the preceding sections for water damage remediation. [If high foam is desired, refer to High Foam Application Instructions.] Saturate affected materials with the use solution with enough product to remain visibly wet for 10 minutes. Use proper ventilation during treatment of affected materials.

#### **DISINFECTION AND SANITIZATION IN HOSPITALS, MEDICAL OFFICES, DENTAL OFFICES, DENTAL OPERATORIES, NURSING HOMES AND OTHER HUMAN HEALTH CARE FACILITIES:**

NOTE: 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. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **INSTRUMENT PRE-SOAK:**

For use as an instrument pre-soak, prepare a solution by adding 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] tap water (1:1:10 – 1:1:8), or equivalent use dilution, in an appropriate plastic container and stir. Immerse instruments completely and allow to soak for 10 minutes. Rinse all surfaces thoroughly with a potable water rinse. Instruments must undergo high-level disinfection or sterilization following pre-soak treatment.

Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **DISINFECTION IN ULTRASONIC BATHS:**

##### **NOTE:**

Use Sterilex Ultra Disinfectant Cleaner Solution 1 to disinfect hard nonporous non-critical objects compatible with Ultrasonic Cleaning Units.

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. [If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

**FOR PRECLEANING OF WHIRLPOOL BATHTUBS, JACUZZIS, SPAS, POOLS, AND FOOTBATHS** circulate a solution of 0.5 fl. oz. [14.8 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 and 0.5 fl. oz. [14.8 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] tap water, or equivalent use dilution, through tub, spa, pool, or bath and associated piping and filters at a temperature > 90°F [32.2°C]. [If high foam is desired, refer to High Foam Application Instructions.] Drain tub, spa, pool, or bath and rinse with water.

**CLEANING AND DISINFECTION OF WHIRLPOOL BATHTUBS, JACUZZIS, SPAS, POOLS, AND FOOTBATHS** After using unit, drain and fill with a use solution of 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 fl. oz. [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:10 – 1:1:8), or equivalent use dilution, to just cover the intake valve. Start the pump to circulate the solution. Wash down the unit sides, seat of the chair lift, and any related equipment with a clean swab, brush or sponge. Treated surfaces must remain visibly wet for a minimum of 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse disinfected surfaces with fresh water. Repeat for heavily soiled units. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

#### **DISINFECTION OF [DENTAL UNIT WATER][ANIMAL DRINKING][ANIMAL WATER] LINES:**

##### **IMPORTANT:**

Always use Sterilex Ultra Disinfectant Cleaner Solution 1 with Sterilex Ultra Activator Solution.

This product is to be used in conjunction with regular testing of [dental unit water] [animal drinking water] .

Consult the manufacturer of the [dental unit] [water line system] before use of this product about compatibility of Sterilex Ultra Disinfectant Cleaner Solution 1 with the [dental unit] [water line system].

**INITIAL START-UP TREATMENT:** Treat the [Dental Unit Water (DUWL)] [Animal Drinking] [Animal Water] Lines [for three consecutive nights].

**ROUTINE TREATMENT:** Treat Dental Unit Water (DUWL) [Animal Drinking] [Animal Water] Lines [one night/week] after Initial Start-up treatment.

Note: If two or more weekly treatments are skipped, repeat initial start-up treatment.

#### **HOW TO APPLY STERILEX ULTRA DISINFECTANT CLEANER SOLUTION 1 WITH STERILEX ULTRA ACTIVATOR SOLUTION:**

1) Add 1 - 2 fl. oz. [29.6 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 1 - 2 fl. oz. [29.6ml] of Sterilex Ultra Activator Solution and 10 fl. oz. [295.7ml] of water (1:1:10 – 1:1:5), or equivalent use dilution, in a measuring cup or other empty container and stir. Pour appropriate amount of the combined mixture into an empty external [dental unit] water bottle. Do not use PET bottles (See note below). [If high foam is desired, refer to High Foam Application Instructions.] After Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution have been mixed together use within 8 hours.

2) Run Sterilex Ultra Solution through the system until the mixture appears at the end of the air/water syringes and handpiece lines. Always remove the handpiece. It may be advisable to remove coupler depending on the type of coupler. Contact manufacturer for specific recommendations.

- 3) Allow the Sterilex Ultra mixture to sit in the unit overnight (Place the ends of water lines into a sink or cuspidor in case any pink mixture drips overnight).
- 4) At the beginning of the next workday, discard any remaining Sterilex Ultra mixture. Rinse the external water bottle with water.
- 5) Fill the external water bottle with water. Flush each line (air/water syringe, handpiece lines) until the bottle is empty.

Note: Do Not Use Thin Walled Polyethylene Terephthalate (PET) Bottles. We Recommend Either A High Density Polyethylene Bottle With A Minimum Thickness Of 0.08 Inches [0.20 cm] Or A High/Low Density Polyethylene Blend With A Minimum Thickness Of 0.14 Inches [0.36 cm].

**[††]DISINFECTION AND SANITIZATION OF SPIRAL FREEZERS, COOLING UNITS, COOLING TUNNELS, EVAPORATIVE CONDENSERS, REFRIGERATED TRUCKS, INDIVIDUAL QUICK FREEZING (IQF) FREEZERS, AND OTHER COIL SURFACES**

Apply Sterilex Ultra Disinfectant Cleaner Solution 1 and Ultra Soft Metal Activator as a disinfectant, per One Step Disinfection and Cleaning Directions, or as a sanitizer, per Sanitization Directions. Optionally, preclean surfaces per the Precleaning Instructions. Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Ultra Soft Metal Activator. Surfaces must be defrosted prior to application.

**Optional, Non-Label Marketing Claims**

**Emerging Viral Pathogen Claims**

*[Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution,][This product] meets the criteria for use against the following categories of emerging viral pathogens when used according to the Feline Calicivirus use directions:*

- *Enveloped viruses*
- *Large non-enveloped viruses*
- **Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, has demonstrated effectiveness against viruses similar to [insert name of emerging virus] on hard, non-porous surfaces. Therefore, Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, can be used against [insert name of emerging virus] when used in accordance with the directions for use against Feline Calicivirus on hard, non-porous surfaces. Refer to the [insert CDC or OIE] website at [insert pathogen-specific website address] for additional information.**
- **[Insert name of illness/outbreak] is caused by [insert name of emerging virus]. Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, kills similar viruses and therefore can be used against [insert name of emerging virus] when used in accordance with the directions for use against Feline Calicivirus on hard, non-porous surfaces. Refer to [insert CDC or OIE] website at [insert pathogen-specific website address] for additional information.**

**Emerging Viral Pathogen Claim – Terms of Registration**

<b>Emerging Viral Pathogen Claim</b>	<b>Supporting Virus(es)</b>
Large, Non-Enveloped Virus Families  <i>(Include Adenoviridae, Reoviridae, and Papillomaviridae)</i>	Feline calicivirus
Enveloped Virus Families  <i>(Includes Arenaviridae, Bornaviridae, Bunyaviridae, Coronaviridae, Filoviridae, Flaviviridae, Hepadnaviridae, Herpesviridae, Orthomyxoviridae, Paramyxoviridae, Poxviridae, Retroviridae, Rhabdoviridae, and Togaviridae)</i>	Rotavirus <b>or</b> Feline calicivirus

*[NOTE TO REVIEWER: The "Biocide and Non-Public Health Uses" section title will always precede the application instructions below on final printed labels]*

## **BIOCIDE AND NON-PUBLIC HEALTH USES**

For the biocide and non-public health uses below, the use of Sterilex Ultra Activator Solution is not required. Sterilex Ultra Activator Solution may be used as an adjuvant for Sterilex Ultra Disinfectant Cleaner Solution 1 in biocide and non-public health uses to adjust pH, inhibit corrosion and enhance cleaning.

### **Penetrates and Removes Biofilm and other Organic Contaminants**

For use as a [Bactericide], [Slimeicide], [Mildewstat][Mildewcide][Odor] and [Algicide] [in Recirculating Cooling Water Systems,] [in Evaporative Cool Cells,] [in Brewery Pasteurizing Systems,] [in Air Washers,] [in Water-Jet Looms,] [Tanks and Piping used to store and convey Industrial Process Water or Aqueous Mixtures not related to food processing,] [Deionizer Water Supply Systems not used in food processing, for human drinking water or in dental lines,] [in Drains,] [in Chair Side Evacuator Traps and Pump Filter Traps].

### **Controls Mold and Mildew**

**RECIRCULATING COOLING WATER SYSTEMS, INCLUDING COOLING TOWERS, EVAPORATIVE CONDENSERS, EVAPORAIVE COOL CELLS, DAIRY SWEET WATER SYSTEMS AND BREWERY PASTEURIZERS.** Effectively removes and controls [biofilm] [slime] [bacteria] [fungi] [mildew] [odor] [algae] [and other] organic contaminants in dairy sweet water systems and brewery pasteurizers. [**Biofilm claim not approved in California**]

**DOSAGE RATES. Initial Dose for badly fouled systems:** Add 0.5 to 4 gal. (500-4000 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water in the system. If cleaning is desired or if the pH of the system is below 8, optionally add simultaneously Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1. Repeat until control is evident.

**Routine Dose, when microbial control is evident:** Subsequent slug additions of 5 oz. to 64 fl. oz. (40-500 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water (and if cleaning is desired or the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) are employed every 2 to 5 days or as needed. The frequency of addition depends on the relative amount of bleed-off, the quality of the makeup water and rate of inflow of airborne or other contaminants. Make slug additions in the sump of water cooling towers.

**Continuous Dosage:** For continuous, or semi-continuous, low level dosage of Sterilex Ultra Disinfectant Cleaner Solution 1, add 1 oz. to 20 oz. (8-165 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water (and if cleaning is desired or the pH of the system is below 8, Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1).

**PULP AND PAPER MILLS.** For use only in the production of pulp and paper that will not come in contact with food. Effectively removes and controls [biofilm] [slime] [mildew] [odor] [algae] [and other] organic contaminants in pulp and paper mill fresh and seawater influent, water systems, wastewater treatment systems, non-potable water systems, and other process water. [If high foam is desired, refer to High Foam Application Instructions.] [**Biofilm and biocidal claims not approved in California**]

**DOSAGE RATES. Initial Dose for badly fouled systems:** Add 3 to 16 gal. (3100-16150 ppm) of **Sterilex Ultra Disinfectant Cleaner Solution 1** per 1000 gallons of water in the system. If cleaning is desired or if the pH of the system is below 8, optionally add simultaneously Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1. If necessary, apply a solution containing 0.4 to 2 oz. Sterilex Ultra Disinfectant Cleaner Solution 1 per gallon of water (and if cleaning is desired or if the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of [Sterilex Ultra Disinfectant Cleaner Solution 1) onto interior surfaces of the system that are not continuously submerged.

**Routine Dose, when microbial control is evident:** Subsequent slug additions of 8 oz. to 50 gal. (65-3100 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water (and if cleaning is desired or if the pH of



the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) are employed every 1 to 5 days as needed. The frequency of addition depends on the quality of the makeup water and rate of inflow of airborne or other contaminants.

**Continuous Dosage:** For continuous low level dosage of Sterilex Ultra Disinfectant Cleaner Solution 1, add 1 oz. to 20 oz. (8-165 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water (and if cleaning is desired or the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1).

**AIR WASHERS.** For use only in industrial air washing systems that maintain effective mist eliminating components. Effectively removes and controls [biofilm] [slime] [mildew] [algae] [odor] [and other] organic contaminants in Industrial Water Scrubbing Systems. [If high foam is desired, refer to High Foam Application Instructions.] [ **Biofilm and biocidal claims not approved in California**]

DOSAGE RATES. **Initial Dose for badly fouled systems:** Add 3 to 16 gal. (3100-16150 ppm) of Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water in the system. If cleaning is desired or if the pH of the system is below 8, optionally add simultaneously Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1. If necessary, apply a solution containing 0.4 to 2 fl. oz. Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per gallon of water onto interior surfaces of the system that are not continuously submerged. Repeat until control is evident.

**Routine Dose, when microbial control is evident:** Subsequent slug additions of 28 oz. to 3 gals. (225-3100 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water and if cleaning is desired or the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1 are employed every 1 to 5 days or as needed. The frequency of addition depends on the relative amount of bleed-off, the quality of the makeup water and rate of inflow of airborne or other contaminants. Make slug additions in the sump of Industrial Water Scrubbing Systems.

**DYE MACHINES.** Effectively removes and controls [biofilm] [slime] [mildew] [odor] [algae] [and other] organic contaminants in Textile Dyeing Machines. [If high foam is desired, refer to High Foam Application Instructions.] [ **Biofilm and biocidal claims not approved in California**]

DOSAGE RATES. Add 16 to 40 gal. (16150-38500 ppm) of Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water in a dye storage tank. If cleaning is desired or the pH of the mixture is below 8, optionally add simultaneously Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1. Circulate the mixture from the dye storage tank through the dye machine and all associated piping and other dye storage tanks. If necessary, apply a solution containing 2 to 5 fl. oz. Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per gallon of water onto surfaces of the system that are not continuously submerged.

**WATER-JET LOOMS.** Effectively removes and controls [biofilm] [slime] [mildew] [odor] [algae] [and other] organic contaminants in Water-Jet Looms. [If high foam is desired, refer to High Foam Application Instructions.] [ **Biofilm and biocidal claims not approved in California**]

DOSAGE RATES. **Initial Dose for badly fouled systems:** Prepare a mixture of 2 to 5 fl. oz. [59.1 – 147.9 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 per gallon [3.79 L] of water. If cleaning is desired or if the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1. Pump the mixture through the Water-Jet Loom and all associated piping. If necessary, apply a solution containing 2 to 5 fl. oz. [59.1 – 147.9 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per gallon [3.79 L] of water onto surfaces of the system that are not continuously submerged.

**Subsequent Dose, when microbial control is evident:** Subsequent slug additions of 5 to 50 fl. oz. (40-406 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner

Solution 1) per 1000 gallons of daily water use are employed every 1 to 5 days or as needed. The frequency of addition depends on the quality of the makeup water and rate of inflow of airborne or other contaminants.

**TANKS, SUMPS, AND OTHER HOLDING VESSELS, PIPING, WATERLINES AND INDUSTRIAL EQUIPMENT USED TO STORE AND CONVEY INDUSTRIAL OR COMMERCIAL WATER OR AQUEOUS MIXTURES. Do Not Use in equipment that will contact food.** Effectively removes and controls [biofilm] [slime] [mildew] [odor] [algae] [and other]organic contaminants in Tanks, Piping, Waterlines, and Industrial Equipment used to store and convey Industrial Process Water or Aqueous Mixtures. [If high foam is desired, refer to High Foam Application Instructions.] **[Biofilm and biocidal claims not approved in California]**

**DOSAGE RATES. Dose for badly fouled systems:** Fill equipment as completely as possible with a solution of 8 to 80 gal. (8215-70000 ppm) of Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per 1000 gallons of system capacity (or equivalent use dilution). Circulate and then drain system. Rinse system thoroughly. If necessary, apply a solution containing 1 to 10 fl. oz. Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per gallon onto surfaces of the equipment that are not submerged.

**Subsequent Dose, when microbial control is evident:** Subsequent slug additions of 5 oz. to 8 gals.. (40-8215 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per 1000 gallons of system capacity (or equivalent use dilution) are employed every 1 to 5 days or as needed. The frequency of addition depends on the quality of the makeup water and rate of inflow of airborne or other contaminants.

#### **BIOFILM REMOVAL IN ANIMAL DRINKING LINES:**

This product can be used to clean and remove biofilms found in tanks, pumps or medicators used to deliver the product, piping and tubing associated with water lines in animal, livestock and poultry housing facilities. The water lines can be used for delivering drinking water, air chiller water and cooling spray lines. Prior to use in the water lines, remove all animals, livestock or birds from [premises][room][barn][building]. Do not reintroduce animals, livestock or birds until treatment is complete and water lines have been thoroughly rinsed with potable water.

Ensure all animals are removed from the [premises][room][barn][building]. Apply solution to the lines by adding 1.0 - 16.0 fl. oz. [29.5 – 473.2 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 1.0 - 16.0 fl. oz. [29.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] of water (1:1:128 – 1:1:8), or equivalent use dilution, to the drinking water system. Fill the system by pumping it through the system or drawing it through the system. Make sure there is enough solution to fill the lines. Trigger drinkers to ensure solution flows over the nipple. If a drinker is not working, continue to trigger it until water flows freely. Allow surfaces to remain visibly wet for at least 3 minutes. Flush system thoroughly with a potable water rinse.

[If high foam is desired, refer to High Foam Application Instructions.] Use product within 8 hours of mixing Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution.

Biofilm removal claims [at rates below 1:1:10 are][is] not approved in California

**WATER SUPPLY SYSTEMS (WATERLINES) NOT USED IN FOOD PROCESSING, FOR HUMAN DRINKING WATER OR DENTAL LINES.** Effectively removes and controls [biofilm] [slime] [mildew] [odor] [algae] [and other]organic contaminants in Tanks, Filters and Piping used to store and convey water. **[Biofilm and biocidal claims not approved in California]**

**DOSAGE RATES.** Add 3 to 100 gal. (3100-86361 ppm) of Sterilex Ultra Disinfectant Cleaner Solution 1 and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of system capacity (or equivalent use dilution). Circulate for at least one hour and then drain system. Rinse system thoroughly. If necessary, apply a solution containing 0.4 to 2 fl. oz. Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the system is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex



Ultra Disinfectant Cleaner Solution 1) per gallon onto surfaces of the equipment are not submerged. [If high foam is desired, refer to High Foam Application Instructions.]

Controls Slime Forming Bacteria and Biofouling

***Penetrates and Removes Biofilm and Other Organic Contaminants. Use as a Bactericide, Slimicide, Mildewstat, and Algicide in:***

**DRAINS.** Effectively removes and controls plugging and odors caused by accumulation of [biofilm] [slime] [mildew] [odor] [algae] [and other] organic contaminants in drains. Prevents stoppage and odors. [**Biofilm and biocidal claims not approved in California. See DISINFECTION AND SANITIZATION OF DRAINS, TRENCH DRAINS, FLOOR DRAINS AND OTHER HARD, NON-POROUS DRAIN SURFACES instructions for drain use instructions in California]**]

**DOSAGE RATES.** Initial Dose for badly fouled systems. This product can be poured, foamed, wiped, brushed, applied using a clean in place CIP system, pumping it through the system or mopping. Apply from 6 fl. oz. to 15 fl. oz. [177.4 – 443.6 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 per gallon [3.79 L] of water to drain. Repeat until control is evident. Optionally, pour from 1 fl. oz. [29.6 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 around or into one-inch [2.54 cm] diameter or smaller drains up to 90 fl. oz. [2661.6 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 around or into three-inch [7.62 cm] diameter drains. If cleaning is desired, add simultaneously Sterilex Ultra Activator Solution at the same volume as Sterilex Ultra Disinfectant Cleaner Solution 1 (1 – 90 fl. oz.) [29.6 – 2661.62 ml]. For foam cleaning, add 6-15 oz. [177.4 – 443.6 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 and an equal amount of Sterilex Ultra Activator Solution per gallon [3.79 L] of water to a foaming device and foam the mixture into the drain.

**Subsequent Dose:** When microbial control is evident, subsequent additions of 1-6 fl. oz. [29.6 – 177.4 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 per gallon of water are employed every 7 days or as needed. This product can be poured, foamed, wiped, brushed, applied using a clean in place CIP system, pumping it through the system or mopping. If cleaning is desired, add simultaneously Sterilex Ultra Activator Solution at the same volume as Sterilex Ultra Disinfectant Cleaner Solution 1 (1 – 6 fl. oz.) [29.6 – 177.4 ml] per gallon [3.79 L] of water. Optionally, subsequent additions of 1 – 6 fl. oz. [29.6 – 177.4 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 into one-inch [2.54 cm] diameter or smaller drains up to 6 fl. oz. [177.4 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 into three-inch [7.62 cm] diameter drains, are employed every 7 days or as needed. If cleaning is desired, add simultaneously Sterilex Ultra Activator Solution at the same volume as Sterilex Ultra Disinfectant Cleaner Solution 1 (1 – 6 fl. oz.) [29.6 – 177.4 ml]. For foam cleaning, add 1 – 6 oz. [29.6 – 177.4 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 and an equal amount of Sterilex Ultra Activator Solution per gallon [3.79 L] of water to a foaming device and foam the mixture into the drain.

**CHAIR SIDE EVACUATOR TRAPS AND PUMP FILTER TRAPS.** Effectively removes and controls plugging and odors caused by accumulation of [biofilm] [slime] [mildew] [odor] [algae] [and other organic contaminants] in chair side evacuator traps and pump filter traps. Prevents stoppage and odor. [**Biofilm and biocidal claim not approved in California]**]

**DOSAGE RATES.** Initial Dose for badly fouled systems. Mix 10 fl. oz. [295.7 ml] of Sterilex Ultra Disinfectant Cleaner Solution 1 and 10 fl. oz. [295.7 ml] of Sterilex Ultra Activator Solution into one gallon [3.79 L] of hot water at the end of the working day. Draw all of the solution into the trap and allow to stand overnight. Repeat until control is evident.

**Subsequent Dose:** When microbial control is evident, subsequent slug additions of 1.5 - 2 fl. oz. [44.4 – 59.1 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 and 1.5 - 2 fl. oz. [44.4 – 59.1 ml] of Sterilex Ultra Activator Solution mixed into one gallon [3.79 L] of hot water are employed every 7 days or as needed.

**FOR PRECLEANING OF WHIRLPOOL BATHTUBS** circulate a solution of 0.5 fl. oz. [14.8 ml] Sterilex Ultra Disinfectant Cleaner Solution 1 and 0.5 fl. oz. [14.8 ml] of Sterilex Ultra Activator Solution per gallon [3.79 L] tap water through tub and associated piping and filters at a temperature > 90°F [32.2°C].

**[DECORATIVE POOLS, FOUNTAINS AND WATER DISPLAYS][WHIRLPOOL BATHTUB, JACUZZI, SPA, POOL, AND FOOTBATH WATER SYSTEMS].** Effectively removes and controls [biofilm] [slime] [mildew] [odor] [algae] [and other] organic contaminants in [decorative pools, fountains and water displays] [whirlpool bathtub, Jacuzzi, spa, pool,

and footbath water systems]. [If high foam is desired, refer to High Foam Application Instructions.] **[Biofilm and biocidal claims not approved in California]**

**DOSAGE RATES. Initial Dose for badly fouled systems.** After using unit, drain and fill with a use solution of 4 to 80 gal. (4000-70000 ppm) of Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per 1000 gallons of system capacity [to just cover the intake valve]. [Start the pump to circulate the solution]. Circulate [solution] and then drain system. Rinse system thoroughly [with clean water]. If necessary, apply a solution containing 1 to 10 fl. oz. Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per gallon onto surfaces of the equipment that are not submerged.

**Subsequent Dose, when microbial control is evident** After using unit, drain and fill with a use solution of 5 fl. oz. to 4 gal. (40 - 4000 ppm) of Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per 1000 gallons of system capacity to just cover the intake valve. Start the pump to circulate the solution. Circulate and then drain system. Rinse system thoroughly. If necessary, apply a solution containing 1 to 10 fl. oz. Sterilex Ultra Disinfectant Cleaner Solution 1 (and if cleaning is desired or the pH of the mixture is below 8, optionally add Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1) per gallon onto surfaces of the [equipment][unit] that are not submerged.

**Continuous Dosage (Decorative Pools, Fountains and Water Display use only).** For continuous, or semi-continuous, low level dosage of Sterilex Ultra Disinfectant Cleaner Solution 1, add 1 oz. to 20 oz. (8-165 ppm) Sterilex Ultra Disinfectant Cleaner Solution 1 per 1000 gallons of water (and if cleaning is desired or the pH of the system is below 8, Sterilex Ultra Activator Solution at the rate of 1 to 3 times the volume of Sterilex Ultra Disinfectant Cleaner Solution 1).]

#### [Procedure for Initial Dose

- 1.) Measure the temperature of the Spa water and raise spa water > 90degrees
- 2.) Remove Filter Cartridges or isolate sand/DE filters for duration of the treatment.
- 3.) Add Pulsar® Biofilm Removal System (Solution 1) at a rate of 1 gallon per 250 gallons of spa water to reach a desired residual of 4000 ppm
- 4.) Let circulate for 2 minutes
- 5.) Add Pulsar® Biofilm Removal System (Solution 2) at a rate of 1 gallon per 250 gallons of spa water to reach a desired residual of 4000 ppm
- 6.) Run jets – for 5 minutes and turn off
- 7.) Circulate water for the balance of treatment 6 to 10 Hours/overnight.
- 8.) Begin to drain treatment while scrubbing all submerged surfaces with brush to remove any remaining biofilm. Drain to waste.
- 9.) Fill spa with fresh water, circulate through jets to remove any dislodged organic material/soil and drain to waste.
- 10.) Fill spa above water jets and circulate. If foam is present, add de-foamer and circulate until foam is no longer present. Rinse and drain to waste.
- 11.) Fill spa with water, rebalance chemistry and add 75g (PER 100 gallons of spa water) of calcium chloride to increase hardness by approx. 200ppm.]

#### [Procedure for Monthly Maintenance Dose

- 1.) Measure the temperature of the Spa water and raise spa water > 90degrees
- 2.) Remove Filter Cartridges or isolate sand/DE filters for duration of the treatment.
- 3.) Add Pulsar® Biofilm Removal System (Solution 1) at a rate of 0.5 gallons per 250 gallons of spa water to reach a desired residual of 2000 ppm
- 4.) Let circulate for 2 minutes
- 5.) Add Pulsar® Biofilm Removal System (Solution 2) at a rate of 0.5 gallons per 250 gallons of spa water to reach a desired residual of 2000 ppm
- 6.) Run jets – for 5 minutes and turn off
- 7.) Circulate water for the balance of treatment 6 to 10 Hours/overnight.
- 8.) Begin to drain treatment while scrubbing all submerged surfaces with brush to remove any remaining biofilm. Drain to waste.

- 9.) Fill spa with fresh water, circulate through jets to remove any dislodged organic material/soil and drain to waste.
- 10.) Fill spa above water jets and circulate. If foam is present, add de-foamer and circulate until foam is no longer present. Rinse and drain to waste.
- 11.) Fill spa with water, rebalance chemistry and add 75g (PER 100 gallons of spa water) of calcium chloride to increase hardness by approx. 200ppm.]



LISTED 153111 (D1) [Sterilex Ultra Disinfectant Cleaner Solution 1]



LISTED 153115 (D1) [Sterilex Ultra CIP]