



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 2, 2016

John Reilly
Sr. Regulatory Specialist
Sterilex Corporation
111 Lake Front Drive
Hunt Valley, MD 21030

Subject: Notification per PRN 98-10 – Adding NSF logo and ultra soft metal activator option
Product Name: Sterilex Ultra Disinfectant Cleaner Solution 1
EPA Registration Number: 63761-8
Application Date: 7/29/16
Decision Number: 520602

Dear Mr. Reilly:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

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.

If you have any questions, you may contact Aline Heffernan at 703-347-8602 or via email at heffernan.aline@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Julie Chao".

Julie Chao, Product Manager 33
Regulatory Management Branch 1
Antimicrobials Division (7510P)
Office of Pesticide Programs

Sterilex Ultra Disinfectant Cleaner Solution 1

[Optional Brand Names for Sterilex Ultra Disinfectant Cleaner Solution 1:
Sterilex Ultra CIP
Sterilex Ultra Coi-AI San]

[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]

NOTIFICATION

63761-8

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

9/2/2016

[Note: Ultra Soft Metal Activator can be used as a replacement for Sterilex Ultra Activator Solution for all approved uses.]

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

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

FOR BIOCIDAL 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]

[NON-FOOD CONTACT SURFACE SANITIZER]

[VIRUCIDE*]

[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], [Refrigerated Trucks], [Kennels], [Pet Animal Quarters], [Zoos], [Pet Shops], [Animal Laboratories], [Veterinary Facilities], [Animal Care Facilities]

Active Ingredients:

n-Alkyl (C12 68%, C14 32%) dimethylethylbenzyl ammonium chloride	3.00%
n-Alkyl (C14 60%, C16 30%, C12 5%, C18 5%) dimethylbenzyl ammonium chloride	3.00%
Hydrogen peroxide	6.30%

Inert Ingredients:

TOTAL:	<u>87.70%</u> 100.00%
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KEEP OUT OF REACH OF CHILDREN

DANGER

See [back panel] [side panel] [box] for [additional] [first aid] [and] precautionary statement

FIRST AID

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. _____

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 Corporation

111 Lake Front Drive

Hunt Valley, MD 21015

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 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.]

[NOTE TO REVIEWER: All surfaces listed between the { } brackets are meant to be optional language]

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, refrigerated trucks, 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), noncritical medical devices 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, HVAC units, cooling coils, 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, 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, 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, finished floors, Formica®, vinyl and plastic upholstery.}

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, removes biofilm from dental unit water lines (laboratory studies show >90% removal).]

Cross-contamination is a significant housekeeping concern. **Sterilex Ultra Disinfectant Cleaner Solution 1**, when mixed with Sterilex Ultra Activator Solution, has been formulated to help prevent cross-contamination on treated surfaces in households, hospitals, schools, industrial settings and institutions.]

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is recommended for use in federally inspected meat and poultry plants and as a disinfectant in dressing plants.]

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, provides optimal non-acid cleaning performance.]

[Both effective and economical, **Sterilex Ultra Disinfectant Cleaner Solution 1**, when mixed with Sterilex Ultra Activator Solution, is a heavy-duty product that disinfects, cleans and deodorizes all in one labor-saving step.]

[Formulated for effective poultry premise sanitation]

[Formulated for effective swine premise sanitation]

[Formulated for effective farm premise use]

[Heavy duty bathroom cleaner, mildewstat and deodorizer]

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

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

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, cleans, disinfects 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, 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 (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, disinfects 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]

[Prevents and suppresses formation of biofilm in dental unit water lines]

[Kills biofilm bacteria]

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

[Staphylocidal] –]Pseudomonacidal] – [Salmonellacidal] – [Listericidal] – [Virucidal*] – [Fungistat/Mildewstat]

[Effective against mycotoxin-producing molds]

[Compatible with soft metals, including aluminum]

[Soft metal disinfection and sanitization applications include spiral freezers and chillers]

[Optimized for use in (spiral freezers) (chillers) (cooling tunnels) and other soft metal surfaces]

[Helps prevent cross contamination on treated surfaces]

[Compatible with aluminum surfaces, (including) (specifically): Al 1100, Al 3003, Al 5052, Al 7075]

[Compatible with stainless steel and soft metal surfaces including: [Aluminum], [Copper], [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 the following material surfaces: [Al 1100], [Al 5052], [Al 3003], [Al 7075], [Bronze], [Brass], [Copper], [Carbon Steel] [SS 304], [SS 316]]

[Note: This product may also be compatible with 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]].

DIRECTIONS FOR USE

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

For disinfection and non-food contact surface 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.

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 –12.8fl. oz. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and an equivalent amount of Sterilex Ultra Activator Solution per 1 gallon of water (or equivalent use dilution), depending on the level of gross filth [soil] to be precleaned. 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 surfaces thoroughly with a potable water rinse.

GENERAL 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 aerogenese [ATCC 13048]]
[Staphylococcus aureus [ATCC 6538]]

SANITIZING DIRECTIONS FOR NON-FOOD CONTACT SURFACES:

Add 2 - 4 fl. oz. [59 -118 mL] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 - 4 fl. oz. [59-118 mL] of Sterilex Ultra Activator Solution to 1 gallon [3.78 L] of water (or equivalent use dilution) to sanitize hard, non-porous surfaces. Apply sanitizer use solution to pre-cleaned, hard, non-porous surfaces with a cloth, mop, sponge, sprayer, foaming or by immersion. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-9 inches [15-22 cm] from surface. Do not breathe spray. Treated surfaces must remain 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.

GENERAL 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. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 – 16.0 fl. oz. of Sterilex Ultra Activator Solution per gallon of water (1:1:10 – 1:1:8), Bactericidal according to the current AOAC Use-Dilution Test Method modified in the presence of 400 ppm hard water plus 5% organic serum 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 enterica enteritidis [ATCC 13076]]
[Salmonella enterica enterica heidelberg [ATCC 8326]]
[Escherichia coli O157:H7 [ATCC# 35150]]
[Listeria monocytogenes [ATCC# 19111]]
[Campylobacter jejuni [ATCC 29428]]

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 ounces [378.5 – 473.2 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 - 16.0 ounces [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution to 1 gal. [3.78 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 wet for at least 10 minutes. Do not

breathe spray. 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.

SPOILAGE ORGANISMS

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution kills the following spoilage organisms on hard, 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 5% organic serum.

Spoilage Organism	Concentration
[Zygosaccharomyces parabailii [(ATCC 56075)]]	[4 - 5 oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 4- 5 oz. of Sterilex Ultra Activator Solution per gallon of water]
[Trichophyton mentagrophytes [(ATCC 9533)]]	[12.8 - 16.0 oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 oz. of Sterilex Ultra Activator Solution per gallon of water]

***VIRUSES**

Avian Influenza

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is effective against Avian Influenza A on hard, inanimate surfaces in one step at 2 - 4 fl. oz. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 -4 fl. oz. of Sterilex Ultra Activator Solution per gallon of water (1:1:64), 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. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 -4 fl. oz. of Sterilex Ultra Activator Solution to 1 gal. [3.78 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 wet for at least 5 minutes. Do not breathe spray. 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.

Sterilex Ultra Disinfectant Cleaner Solution 1, when mixed with Sterilex Ultra Activator Solution, is effective against the following viruses on hard, 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.

Virus	Concentration
[Feline Calicivirus]	[12.8 – 16.0 oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. of Sterilex Ultra Activator Solution per gallon of water]
[Norovirus]	[12.8 – 16.0 oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. of Sterilex Ultra Activator Solution per gallon of water]
[Rotavirus]	[12.8 – 16.0 oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 – 16.0 oz. of Sterilex Ultra Activator Solution per gallon of water]

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. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. of Sterilex Ultra Activator Solution per gallon of water, 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. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 – 16.0 fl. oz. of Sterilex Ultra Activator Solution to 1

gal. [3.78 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 wet for at least 5 minutes. Do not breathe spray. 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.

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. 12.8 - 16.0 fl. oz. of Sterilex Ultra Disinfectant Cleaner Solution 1 and 12.8 - 16.0 fl. oz. of Sterilex Ultra Activator Solution per gallon of water (1:1:10 – 1:1:8) according to the current AOAC Use-Dilution Test Method modified in the presence of 400 ppm hard water plus 5% organic serum.

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

ENTRYWAY SANITIZING SYSTEMS:

Set the entryway system to apply 2 - 4 fl. oz. [59 - 118 mL] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 - 4 fl. oz. [59 - 118 mL] of Sterilex Ultra Activator Solution per 1 gallon [3.78 L] of water. 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].

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

[Add] [Mix] 2 - 4 fl. oz. [59 - 118 mL] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 - 4 fl. oz. [59 - 118 mL] of Sterilex Ultra Activator Solution per 1 gallon [3.78 L] of water (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, mechanical spray device, foam or by immersion. Thoroughly wet all surfaces to be sanitized. Treated surfaces must remain wet for three (3) minutes. Remove excess solution from equipment prior to storage. Change cloth, sponge or towels frequently to avoid redeposition of soil. [Change the solution] [A Fresh solution must be prepared] [Prepare a fresh solution] at least daily or [more often if use solution] [when solution appears] becomes visibly [dirty] [soiled] [diluted].

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 - 4 fl. oz. [59 - 118 mL] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 - 4 fl. oz. [59 - 118 mL] of Sterilex Ultra Activator Solution per gallon of water. Scrape waterproof shoes and boots. Walk through foam. Boots must remain wet for at least 3 minutes prior to entering area. Foamed 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 prevent cross contamination from area to area in the packaging and storage areas of food plants.

GENERAL 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 fl. oz. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 fl. oz. of Sterilex Ultra Activator Solution to 1 gal. tap water in an appropriate container and stir. Completely fill storage, transfer and dispensing equipment with the prepared solution. Allow the Sterilex Ultra 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 NON-FOOD CONTACT SURFACE 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 General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General Sanitization Directions. Use product within 8 hours of mixing **Sterilex Ultra Disinfectant Cleaner Solution 1** and Sterilex Ultra Activator Solution.

DISINFECTION AND NON-FOOD CONTACT SURFACE 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.

Remove all animals and feed from premises, 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 General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General Sanitization Directions. 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. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse 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 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 General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General Sanitization Directions. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

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

CLEANING AND DISINFECTION OF ANIMAL DRINKING LINES:

This product can be used to clean and disinfect 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. 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 farm. Apply disinfecting solution to the lines by adding 12.8 - 16.0 ounces [378.5 – 473.2 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 - 16.0 ounces [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon [3.78 L] of water (1:1:10 – 1:1:8) to the drinking water system. Fill the system by using a clean in place (CIP) system, pumping it through the system, or drawing it through the system. Make sure there is enough solution to fill the lines. Trigger all 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 wet for at least 10 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.

SANITIZING ANIMAL DRINKING LINES:

This product can be used to sanitize 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. 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 farm. Apply sanitizing solution to the lines by adding 2 - 4 ounces [59 - 118 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 2 - 4 ounces [59 - 118 ml] of Sterilex Ultra Activator Solution per gallon [3.78 L] of water (1:1:10 – 1:1:8) to the drinking water system. Fill the system by using a clean in place (CIP) system, pumping it through the system, or drawing it through the system. Make sure there is enough solution to fill the lines. Trigger all 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 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.

DISINFECTION AND SANITIZATION IN REFRIGERATED TRUCKS AND OTHER 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 General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General Sanitization Directions. Optionally, preclean surfaces per the Precleaning 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 ounces [378.5 – 473.2 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 - 16.0 ounces [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution to 1 gal. tap water in an appropriate plastic container and stir. Completely immerse combs, brushes, rollers, manicure and other hard, nonporous salon instruments and tools for 10 minutes. Allow surfaces to remain wet for at least 10 minutes. Rinse all thoroughly with potable water and dry before use. Prepare fresh solution daily or more often if solution becomes diluted or soiled. 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.

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), tackless strip and paneling.

REMEDIATION PROCESS FOR SEWER BACKUP AND RIVER FLOODING:

Mix 12.8 - 16.0 ounces [378.5 – 473.2 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 - 16.0 ounces [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon of water, allowing for the dilution by absorbed water within the affected materials. 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.

REMEDIATION 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 ounces [378.5 – 473.2 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 - 16.0 ounces [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution per gallon of water, allowing for the dilution by absorbed water within the affected materials. 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.

REMEDIATION 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. Saturate affected materials with the use solution with enough product to remain wet for 10 minutes. Use proper ventilation during treatment of affected materials.

DISINFECTION 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 General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General Sanitization Directions. Optionally, preclean surfaces per the Precleaning 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 ounces [378.5 – 473.2 ml] of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 12.8 - 16.0 ounces [378.5 – 473.2 ml] of Sterilex Ultra Activator Solution to 1 gal. tap water 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 General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General Sanitization Directions. Optionally, preclean surfaces per the Precleaning 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. Sterilex Ultra Disinfectant Cleaner Solution 1 and 0.5 fl. oz. of Sterilex Ultra Activator Solution per 1 gal. tap water through tub, spa, pool, or bath and associated piping and filters at a temperature > 90°F. 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 1 gallon [3.78 L] of water (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 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 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.

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

INITIAL START-UP TREATMENT: Treat the Dental Unit Water Lines (DUWL) for three consecutive nights starting on Monday.

ROUTINE TREATMENT: Under the Federal Insecticide, Treat DUWL one night/week (Monday-Thursday recommended) 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 ounce of Sterilex Ultra Disinfectant Cleaner Solution 1 and 1 ounce of Sterilex Ultra Activator Solution and 10 ounces of water 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). After Sterilex Ultra Disinfectant Cleaner Solution 1 and Sterilex Ultra Activator Solution have been mixed together use within 24 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 Or A High/Low Density Polyethylene Blend With A Minimum Thickness Of 0.14 Inches.

SPIRAL FREEZERS, COOLING UNITS, COOLING TUNNELS, EVAPORATIVE CONDENSERS AND OTHER COIL SURFACES

Apply **Sterilex Ultra Disinfectant Cleaner Solution 1** and Ultra Soft Metal Activator as a disinfectant, per General One Step Disinfection and Cleaning Directions, or as a sanitizer, per General 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.

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], [Slimicide], [Mildewstat] and [Algicide] [in Recirculating Cooling Water Systems,] [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, DAIRY SWEET WATER SYSTEMS AND BREWERY PASTEURIZERS. Effectively removes and controls biofilm and other organic contaminants in dairy sweet water systems and brewery pasteurizers. (**Claim not approved in California**)

DOSAGE RATES. Initial Dose for badly fouled systems: Add 1 to 4 gal. (1000-4000 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 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.

(**Claim 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 to 50 oz. (65-408 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 and other organic contaminants in Industrial Water Scrubbing Systems. **(Claim 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 to 128 fl. oz. (225-1000 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 and other organic contaminants in Textile Dyeing Machines.

(Claim 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 and other organic contaminants in Water-Jet Looms.

(Claim not approved in California)**DOSAGE RATES. Initial Dose for badly fouled systems:** Prepare a mixture of 2 to 5 fl. oz. of **Sterilex Ultra Disinfectant Cleaner Solution 1** per gallon 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. 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 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 25 fl. oz. (40-203 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 AND INDUSTRIAL EQUIPMENT USED TO STORE AND CONVEY INDUSTRIAL OR COMMERCIAL PROCESS WATER OR AQUEOUS MIXTURES. Do Not Use in equipment that will contact food. Effectively removes and controls biofilm and other organic

contaminants in Tanks, Piping and Industrial Equipment used to store and convey Industrial Process Water or Aqueous Mixtures. **(Claim 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. 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 to 25 fl. oz. (40-203 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.

DEIONIZED WATER SUPPLY SYSTEMS NOT USED IN FOOD PROCESSING, FOR HUMAN DRINKING WATER OR DENTAL LINES. Effectively removes and controls biofilm and other organic contaminants in Tanks, Filters and Piping used to store and convey Deionizer Water.

(Claim not approved in California)

DOSAGE RATES. Add 3 to 16 gal. (3100-16150 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. Circulate for at least one hour and then drain system. Rinse system with 6 volumes of water. 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

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 and other organic contaminants in drains. Prevents stoppage and odors. **(Claim not approved 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. **Sterilex Ultra Disinfectant Cleaner Solution 1** per gallon of water to drain. Repeat until control is evident. Optionally, pour from 1 fl. oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** around or into one-inch diameter or smaller drains up to 90 fl. oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** around or into three-inch 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). For foam cleaning, add 6-15 oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** and an equal amount of Sterilex Ultra Activator Solution per gallon 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. **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) per gallon of water. Optionally, subsequent additions of 1 – 6 fl. oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** into one-inch diameter or smaller drains up to 6 fl. oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** into three-inch 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.). For foam cleaning, add 1 – 6 oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** and an equal amount of Sterilex Ultra Activator Solution per gallon 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 in chair side evacuator traps and pump filter traps. Prevents stoppage and odor. **(Claim not approved in California)**

DOSAGE RATES. Initial Dose for badly fouled systems. Mix 10 fl. oz. of **Sterilex Ultra Disinfectant Cleaner Solution 1** and 10 fl. oz. of Sterilex Ultra Activator Solution into one gallon 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. **Sterilex Ultra Disinfectant Cleaner Solution 1** and 1.5-2 fl. oz. of Sterilex Ultra Activator Solution mixed into one gallon of hot water are employed every 7 days or as needed.

FOR PRECLEANING OF WHIRLPOOL BATHTUBS circulate a solution of 0.5 fl. oz. **Sterilex Ultra Disinfectant Cleaner Solution 1** and 0.5 fl. oz. of Sterilex Ultra Activator Solution per 1 gal. tap water through tub and associated piping and filters at a temperature > 90°F.

WHIRLPOOL BATHTUB, JACUZZI, SPA, POOL, AND FOOTBATH WATER SYSTEMS. Effectively removes and controls biofilm and other organic contaminants in whirlpool bathtub, Jacuzzi, spa, pool, and footbath water systems. **(Claim 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. (4108-70000 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 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 After using unit, drain and fill with a use solution of 5 to 25 fl. oz. (40 - 203 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 that are not submerged.

[The following logo is for use with Sterilex Ultra Disinfectant Cleaner Solution 1]



[The following logo is for use with Sterilex Ultra CIP]

