



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 20, 2020

Lael Jimenez  
Sr. Regulatory Scientist  
Stepan Company  
22 W. Frontage Road  
Northfield, IL 60093

Subject: Label Amendment: Emerging Viral Pathogens Claim  
Product Name: BTC 2125M 20% SOLUTION  
EPA Registration Number: 1839-155  
Application Date: 03/25/2020  
Decision Number: 561086

Dear Ms. Jimenez:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is 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.

Because you have opted to add statements pertaining to emerging viral pathogens to your label as described in the August 19, 2016, Guidance to Registrants: Process For Making Claims Against Emerging Viral Pathogens Not On EPA-Registered Disinfectant Labels ("Guidance"), [https://www.epa.gov/sites/production/files/2016-09/documents/emerging\\_viral\\_pathogen\\_program\\_guidance\\_final\\_8\\_19\\_16\\_001\\_0.pdf](https://www.epa.gov/sites/production/files/2016-09/documents/emerging_viral_pathogen_program_guidance_final_8_19_16_001_0.pdf), you are subject to the following additional terms of registration:

1. You may make statements pertaining to emerging viral pathogens only through the following communications outlets: technical literature distributed exclusively to health care facilities, physicians, nurses and public health officials, "1-800" consumer information services, social media sites and company websites (non-label related). These statements shall not appear on marketed (final print) product labels.


2. Your statements pertaining to emerging viral pathogens must adhere to the format approved on the Agency-accepted master label.
3. You may make statements pertaining to emerging viral pathogens only upon a disease outbreak that meets all the following criteria:
  - a. The causative organism must be a virus that causes an infectious disease that has appeared in a human or animal population in the U.S. for the first time, or that may have existed previously but is rapidly increasing in incidence or geographic range.
    - i. For human disease, the outbreak is listed in one of the following Centers for Disease Control (CDC) publications:
      - A. CDC Current Outbreak List for “U.S. Based Outbreaks” ([www.cdc.gov/outbreaks](http://www.cdc.gov/outbreaks)),
      - B. CDC Current Outbreak List for “Outbreaks Affecting International Travelers” with an “Alert” or “Advisory” classification ([www.cdc.gov/outbreaks](http://www.cdc.gov/outbreaks)) (also released through the CDC’s Health Alert Network (HAN) notification process)
      - C. Healthcare-Associated Infections (HAIs) Outbreaks and Patient Notifications page ([www.cdc.gov/hai/outbreaks](http://www.cdc.gov/hai/outbreaks))
    - ii. For animal disease, the outbreak is identified as an infectious disease outbreak in animals within the U.S. on the World Organization for Animal Health (OIE) Weekly Disease Information page ([www.oie.int/wahis\\_2/public/wahid.php/Diseaseinformation/WI](http://www.oie.int/wahis_2/public/wahid.php/Diseaseinformation/WI)).
      - A. The CDC or OIE has identified the taxonomy, including the viral family and/or species, of the pathogen and provides notice to the public of the identity of the emerging virus that is responsible for an infectious disease outbreak. Based on the taxonomy of the outbreak pathogen identified by the CDC or OEI, the pathogen's viral subgroup is enveloped.
      - B. The virus can be transmitted via environmental surfaces (non-vector transmission), and environmental surface disinfection has been recommended by the CDC, OIE or EPA to control the spread of the pathogen.
4. You may begin communicating statements pertaining to emerging viral pathogens only upon CDC or OIE’s publication per term 3.a. of an outbreak of an emerging viral pathogen meeting all of the criteria of term 3. You must cease and remove all such non-label communications intended for consumers no later than 24 months after the original publication of the outbreak per term 3.a., unless the Agency issue written guidance to the contrary due to continued public health concerns. The emerging pathogen claim language may remain on the master label.

5. Terms from points 1 through 4 above shall become immediately void and ineffective if registration for use against Adenovirus Type 5 is suspended or cancelled or no longer meets the criteria for a disinfectant claim (see EPA Product Performance Test Guideline 810.2200). In addition, terms B.1 through B.4 above shall become immediately void and ineffective upon your receipt of evidence of ineffectiveness against any pathogen in a less-resistant Spaulding category.

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 the disinfectants list at [disinfectantslist@epa.gov](mailto:disinfectantslist@epa.gov).

Sincerely,



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

Enclosure: stamped label

# BTC<sup>®</sup> 2125M 20% Solution

## FRONT PANEL

### ACTIVE INGREDIENTS

Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> )	
dimethyl benzyl ammonium chlorides .....	10.0%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl	
ethylbenzyl ammonium chlorides.....	10.0%
<b>INERT INGREDIENTS</b> .....	<b>80.0%</b>
<b>TOTAL</b> .....	<b>100.0%</b>

**NET CONTENT(S):** XXX (oz)(ounces)(gallons)(gals)

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• 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.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
(You may contact xxx-xxx-xxxx for emergency medical treatment information.)	

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

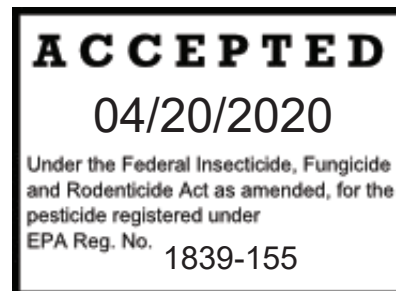
See (side)(back) panel(s) (booklet) for additional precautionary statements (directions for use).

## FRONT, BACK OR SIDE PANEL

EPA Reg No. 1839-155  
EPA Est. No. 1839-IL-01 (XXX-XX-XXX)

**STEPAN COMPANY**  
22 West Frontage Rd.  
Northfield, IL 60093

## MARKETING CLAIMS



### General

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Appropriate metric or imperial unit may be added as optional, supplemental information.

- DISINFECTANT
  - \*VIRUCIDE
  - SANITIZER
  - DEODORIZER
  - MILDEWSTAT (on hard inanimate surfaces)
  - LAUNDRY BACTERIOSTAT
  - For Hospital, Institutional and Industrial Use
  - For Farm, School, Dairy, Restaurant, Food Handling and Processing Areas, Equine, Poultry/Turkey Farm, Bar, Tavern and Institutional Kitchen Use
  - This product is designed specifically for hospitals, nursing homes, hotels, lodging establishments, schools, athletic/recreational facilities/tanning spas, food processing plants, dairies, food service establishments, restaurants, bars, transportation terminals, automotive garages, animal quarters, poultry and turkey farms, kennels and institutions where disinfection, sanitization, and deodorization is of prime importance. When used as directed, this product is formulated to disinfect hard, non-porous, inanimate environmental surfaces: floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, sink tops, bathtubs, cabinets, tables, chairs, tanning beds and telephones.
  - This product contains no phosphorous.
  - This product is for use in institutional kitchens and bathrooms.
  - This product has been formulated to aid in the reduction of cross-contamination on treated surfaces not only in hospitals, but in schools, institutions and industry.
  - This product is an economical concentrate that can be used with a mop and bucket, sponge, cloth, low pressure coarse sprayer, hand pump trigger sprayer or by soaking.
  - This product will not leave a grit or soap scum.
  - This product is applied through automatic washing systems, immersion tanks, foaming apparatus, low pressure sprayers, and fogging (wet misting) systems.
  - Use This product on multi-touch surfaces responsible for cross-contamination.
  - This product for use (in)(on) {insert use sites or surfaces from pages 5 and 6}
  - This product may be used on (the following) washable hard, non-porous surfaces {insert surfaces from page 6}
- |   |
|---|
| <ul style="list-style-type: none"> <li>• CITRUS CANCKER CONTROL <i>(Not for Use in California)</i></li> </ul> |
|---|

## **DISINFECTION CLAIMS**

- Effective in the presence of 5% serum contamination
- Formulated for Effective Farm Premise Disinfection
- Formulated for Effective Poultry Premise Disinfection
- Formulated for Effective Swine Premise Disinfection
- Formulated for Effective Mushroom Farm Disinfection
- Formulated for Effective Veterinary Practice/Animal Care/Animal Laboratory Disinfection
- Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)
- When used as directed, this product is a concentrated Hospital Use disinfectant that is an effective broad spectrum bactericide and virucide\*.
- This product is a versatile Disinfectant & Sanitizer for Veterinarian, Animal Care and Agricultural premises.
- This product is a complete, chemically balanced disinfectant/sanitizer that provides clear use-solutions even when diluted in hard water.
- This product is for use as a hard, non-porous surface hospital disinfectant at 547 ppm active quaternary and as a general disinfectant at 469 ppm active quaternary.
- This product is a versatile sanitizer and broad spectrum disinfectant formulated for use in Ultrasonic Baths (Ultrasonic cleaning units).
- This product is a versatile cleaner, sanitizer and broad spectrum disinfectant formulated for use on bath and therapy equipment (Whirlpools).

- Use This product to sanitize and disinfect non-porous salon/barber tools and instruments: combs, brushes, scissors, blades, and manicure instruments.
- When used as directed, This product will disinfect hard, non-porous surfaces such as flower buckets, floors, walls of coolers, design and packing benches and counter tops.
- Use This product to clean, disinfect and deodorize flower buckets, walls and floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors develop.
- This product is for Poultry Premise Disinfection (Hatcheries), Egg Receiving Areas, Egg Holding Areas, Setter Room, Tray Dumping Area, Trays, Buggies, Racks, Egg Flats, Chick Holding room, Poultry Buildings, Ceilings, Sidewalls and Floors, Drinkers, and all other Poultry House related Equipment, and all other hard, non-porous surfaces in the Hatchery Environment.
- Use This product for Swine Premise Disinfection: Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and Areas, Nursery, Blocks, Creep Area, Chutes.
- This product meets AOAC Use Dilution Test Standards for hospital disinfectants.
- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by Influenza A virus. This product is a broad-spectrum hard surface disinfectant that has been shown to be effective against (Influenza A virus tested and listed on the label) and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against Influenza A virus and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 Influenza A virus.
- This product has demonstrated effectiveness against (Influenza A virus tested and listed on the label) and is expected to inactivate all Influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 Influenza A virus.
- **EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE AND VIRUCIDE IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).**

## **SANITIZATION CLAIMS**

- (In addition,) this product will sanitize previously cleaned and rinsed non-porous food contact surfaces such as tanks, non-wooden (plastic) chopping blocks, counter tops, drinking glasses and eating utensils.
- This product can be used to sanitize previously cleaned food grade eggs in shell egg and egg product processing plants.
- This product is for use as a sanitizer on dishes, glassware, and utensils at 200-400 ppm active quaternary without potable water rinse.
- This product is for use as a sanitizer on food processing equipment at 200-400 ppm active quaternary without potable water rinse.
- This product is for use as a sanitizer in bottling and beverage dispensing equipment.
- This product is for use as a sanitizer in sanitary filling of bottles and cans.
- This product is for use in sanitizing bottles or cans in the final rinse application and for external spraying of filling and closing machines.
- This product is for use as a sanitizer in beer fermentation and holding tanks.
- This product is for use as a Hatching-Egg sanitizer, with best results achieved in water temperatures ranging from 78°-110°F.
- This product meets AOAC Germicidal & Detergent standards for sanitizing previously cleaned food-contact surfaces.
- This product is an effective sanitizer for use on food contact surfaces in 60 seconds at 200 (-400) ppm active quaternary against *Campylobacter jejuni*, *Staphylococcus aureus*, *Escherichia coli*, *Escherichia coli* O157:H7, *Yersinia enterocolitica* and *Listeria monocytogenes*.
- Regular, effective cleaning and sanitization of equipment, utensils and work or dining surfaces that could harbor hazardous microorganisms minimizes the probability of contaminating food during preparation, storage or service. Effective cleaning will remove soil to prevent the accumulation of food residues, which may decompose or support the rapid development of food poisoning organisms or toxins. Application of effective

sanitization procedures reduces the number of those disease causing organisms that may be present on equipment and utensils after cleaning. Effective sanitization reduces the potential for the transfer of disease, either directly through tableware such as glasses, cups and flatware or indirectly through food.

- To prevent cross-contamination, kitchenware and equipment food contact surfaces must be washed, rinsed with potable water and sanitized after each use and following any interruption of operation during which time contamination may have occurred.
- Where equipment and utensils are used for the preparation of foods on a continuous production-line basis, utensils and equipment food-contact surfaces must be washed, rinsed with potable water and sanitized at intervals throughout the day on a schedule based on food temperature, type of food, and the amount of food particle accumulation.

## **FUNGI, MOLD, MILDEW CLAIMS**

- This product is effective at controlling mold and mildew odor (in)(on) {insert use sites from pages 5 and 6}
- This product is formulated to effectively eliminate offensive odors caused by mold and mildew.

## **DEODORIZING & CLEANING CLAIMS**

- This product deodorizes those areas that generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, pet areas and any other areas that are prone to odors caused by microorganisms.
- This product neutralizes on contact musty odors and tough odors from smoke, pet accidents, and spills.
- This product is effective against germs and odors caused by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors.
- This product is used in work areas such as tool rooms and garages for odor control and light duty cleaning.
- This product provides long lasting freshness against tough (pet) odors from litter boxes and pet accidents.
- This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses.
- This product may be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors may develop.
- This product is used as a general purpose antimicrobial detergent in florist shops, wholesale florists, shippers, green house packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause:
  1. Plugging of stems with slime, which reduces uptake of water for various sensitive flowers including roses, chrysanthemums, gladioli and tulips.
  2. Production of ethylene gas, which may injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, babies breath, sweet peas, freesia and alstroemena.

## SURFACES & USE SITES

<Product label may list surfaces or sites and/or a graphic depicting a hard, non-porous surface from the chart below>

### Surfaces (hard, non-porous):

Food Preparation and Storage Areas	<sup>1</sup> Metal Surfaces	<sup>1</sup> Stainless Steel Surfaces	Glazed Porcelain
Glazed Ceramic Tiles	Dishes	Glassware	Silverware
Cooking Utensils	Plastic and Other Non-porous Cutting Boards	Coolers	Ice Chests
Kitchen Equipment: Food Processors, Blenders, Cutlery, Utensils	Countertops	Slurrry® Machines	Stovetops
Refrigerators	Sinks	Ice Machines	Appliances
Glass	<sup>1</sup> Metal	<sup>1</sup> Stainless Steel	Glazed Porcelain
Glazed Ceramic	Sealed Granite	Sealed Marble	Plastic
Chrome	Vinyl	Enameled Surfaces	Painted Woodwork
Formica®	Vinyl and Plastic Upholstery	Tables	Chairs
Desks	<sup>1</sup> Bed Frames	Lifts	Washable Walls
Cabinets	Doorknobs	Garbage Cans	Exhaust Fans
Refrigerated Storage Equipment	Display Equipment	Large Inflatable non-porous (Plastic)(Rubber) Advertising Structures: animal, promotional items, moonwalk slides, obstacle course play equipment, exercise equipment)(mats), wrestling mats)	Beer Fermentation and Holding Tanks
Bottling or Pre-mix Dispensing Equipment	Citrus Processing Equipment and Holding Tanks	Telephones	High Chairs
Drinking Fountains	Shower Stalls	Shower Doors (and)(Curtains)	Bathtubs
Glazed Ceramic Tiles	Glazed Porcelain	Chrome Plated Fixtures	Toilets
Toilet Bowl Surfaces	Urinals	Portable Toilets	Glazed Porcelain Tile
Restroom Fixtures	Bathroom Fixtures	Kennels	Kennel Runs
Cage Floors	Cages		

### Use Sites:

<sup>1</sup> Hospitals	<sup>1</sup> Nursing Homes	<sup>1</sup> Medical Offices	<sup>1</sup> Dental Offices
<sup>1</sup> Clinics	<sup>1</sup> Operating Rooms	<sup>1</sup> Isolation Wards	<sup>1</sup> Medical Research Facilities
Patient Care Rooms and Facilities	<sup>1</sup> Recovery	<sup>1</sup> Anesthesia	<sup>1</sup> Emergency rooms
<sup>1</sup> X-ray Cat Labs	<sup>1</sup> Newborn nurseries	<sup>1</sup> Respiratory therapy	<sup>1</sup> Orthopedics
<sup>1</sup> Respiratory Therapy	Whirlpools	Footbaths	Daycare centers and Nurseries
<sup>1</sup> Sick Rooms	<sup>1</sup> Acute Care Institutions	<sup>1</sup> Alternate Care Institutions	Healthcare Institutions
Cocktail Lounges	Food Establishments	Coffee Shops	Donut Shops
Bagel Stores	Liquor Stores	Department Stores	Shopping Malls
Gift Shops	Video Stores	Bookstores	Photocopy Centers
Bicycle Shops	Auto Repair Centers	Toy Stores	Police Stations
Courthouses	Municipal Government Buildings	Prisons	Jails
<sup>1</sup> Life Care Retirement Communities	<sup>1</sup> EMS and Fire Facilities	Pizzerias	Taverns
Restaurants	Bars	Cafeterias	Institutional kitchens
Fast Food Operations	Food Storage Areas	Supermarkets	Convenience Stores
Retail Establishments	Wholesale Establishments	Dressing Rooms	Laundries
Crime Scenes	Funeral Homes	Institutional Facilities	Laboratories
Mortuaries	Bed & Breakfast	Dormitories	

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Factories	Business and Office Buildings	Restrooms	Hotels and Motels
Manufacturing Facilities	Universities	Education Institutions	School Administration Offices
Transportation Terminals	Institutional Kitchens	Bathrooms	Institutions
Picnic Facilities	Sports Areas	Sport Complexes	Sport Stadiums
Schools and Colleges	Churches	Classrooms	Athletic Facilities
Sports Stadiums	Convention Centers	Locker Rooms	Camp Grounds
Playgrounds	Recreational Facilities	Food Processing Plants	Dairy Farms
Hog Farms	Poultry and Turkey Farms	Egg Processing Plants	Veterinary Clinics
Equine Farms	Animal Life Science Laboratories	Kennels	Breeding and Grooming Establishments
Zoos	Pet Shops	Other Animal Care Facilities	Pet Animal Quarters
Cruise Lines	Airline Terminals	Shipping Terminals	Automotive Garages
Boats	Ships	Campers	Trailers
Taxis	Airplanes	Health Clubs	Spas
Tanning Spas (Salons)	Massage/Facial Salons	Hair/Nail/Pedicure Salons	Barber/Beauty Shops
Tattoo Parlors	Hair/Nail/Pedicure Salons	Museums	Art Galleries
Post Offices	Performance/Theatre Centers	Banks	Libraries
Movie Theaters	Recycling Centers and Equipment	Commercial Florist	Flower Shops
Basements	Cellars	Bedrooms	Attics
Humidifier Water Tanks			Kitchen
Bathrooms and Other Household Areas	Bus Stations	Buses	Trains
Taxis	Airplanes	Boats	Ships
Campers	Trailers	Mobile Homes	Cars
Egg Processing Plants	Pet Animal Quarters	Pet Shops	(Equine)(hog)(Poultry)(Turkey Farms)
(Meat)(Poultry) Processing Plants	(Meat)(Poultry) Producing Establishments	Mushroom Farms	Veterinary Clinics
Animal Life Science Laboratories	Kennels	Breeding Establishments	Grooming Establishments
Processing Facilities for (fish)(milk)(citrus)(ice cream)(potatoes)	USDA Inspected Food Processing Facilities	Tack Shops	Zoos
Other Animal Care Facilities	Household	Train Stations	Airports
Heliports	Lodging Establishments	Dog/Cat Animal Kennels	Public Restrooms
Travel Rest Areas	Shower Rooms	Shower Stalls	Universities
Classrooms	Education Institutions	School Administration Offices	
Athletic Facilities	Health Clubs	Spas	Tanning Salons/Spas
Tanning Beds	Massage/Facial Salons	Hair/Nail/Pedicure Salons	Barber/Beauty Shops
Camp Grounds	Play Grounds	Recreational Facilities	Picnic Facilities
Sports Arenas	Sports Complexes	Sports Stadiums	Food Processing Plants
Theaters	Dairy Farms	Hog Farms	Equine Farms
Poultry & Turkey Farms	Meat/Poultry Producing Establishments	Mushroom Farms	Commercial Florist and Flower Shops

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## **MIRCO-ORGANISMS**

This product has been tested and found to be efficacious against the following micro-organisms on hard, non-porous surfaces:

<b>DISINFECTION</b>		
<b>BACTERICIDAL ACTIVITY (BACTERIA)</b>	<b>ATCC No</b>	<b>Contact Time</b>
Pseudomonas aeruginosa	(ATCC 15442)	10 minutes
Salmonella choleraesuis	(ATCC 10708)	10 minutes
Staphylococcus aureus	(ATCC 6538)	10 minutes
Listeria monocytogenes	(ATCC 35152)	10 minutes
Yersinia enterocolitica	(ATCC 23715)	10 minutes
Vancomycin intermediate resistant Staphylococcus aureus (VISA) (HIP-5836)		10 minutes
<b>VIRUCIDAL ACTIVITY (VIRUSES)</b>	<b>ATCC No</b>	<b>Contact Time</b>
Hepatitis B Virus (HBV)		10 minutes
Hepatitis C Virus (HCV)		10 minutes
Herpes Simplex Type I (Sabin)		10 minutes
Human Coronavirus (Strain 229E)	(ATCC VR-740)	10 minutes
Human Immunodeficiency Virus (HIV-1)(Strain HTLV-IIIB)		10 minutes
Influenza A Virus (H7N9)		10 minutes
Human Influenza		10 minutes
Influenza A2 (Japan 305/57)		10 minutes
Laryngotracheitis Virus (LT-IVAX)		10 minutes
Newcastle disease (Strain H. J. Roakin, 1946)		10 minutes
Pandemic 2009 H1N1 Influenza A Virus		10 minutes
Adenovirus Type 5		10 minutes
Avian influenza A/Turkey/Wisconsin	(ATCC VR-798)	10 minutes
Bovine Viral Diarrhea Virus (BVDV)		10 minutes
Vaccinia (Wyeth strain)		10 minutes
<b>SANITIZATION (FOOD CONTACT)</b>		
<b>BACTERIA</b>	<b>ATCC No</b>	<b>Contact Time</b>
Staphylococcus aureus	(ATCC 6538)	60 seconds
Campylobacter jejuni	(ATCC 29428)	60 seconds
Escherichia coli	(ATCC 11229)	60 seconds
Escherichia coli O157:H7	(ATCC 43895)	60 seconds
Yersinia enterocolitica	(ATCC 23715)	60 seconds
Listeria monocytogenes	(ATCC 35152)	60 seconds

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## **CLAIM QUALIFIERS**

*<sup>1</sup><For labels that list medical premises and metal and/or stainless steel surfaces, one of the following statements must be used:>*

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.

*or*

This product is not for use on critical and semi-critical medical device surfaces.

## **PRECAUTIONARY STATEMENTS**

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER**

**CORROSIVE.** Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. May be fatal if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

*<Required for product supplied in containers of 5 gallons or greater>*

### **ENVIRONMENTAL HAZARDS**

This product 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.

Contains no phosphorus.

### **STORAGE AND DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.**

**PESTICIDE STORAGE** - Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in a tightly closed container in an area inaccessible to children.

*<for products with industrial, institutional and commercial use sites>*

**CONTAINER HANDLING** – Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying.

*<Containers 5 gallons or less>*

Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities for metal containers or by incineration for plastic containers.

*<Containers greater than 5 gallons>*

Triple rinse as follows: Fill container ¼ full with water. 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. Follow Pesticide Disposal instructions for rinsate disposal. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities for metal containers or by incineration for plastic containers.

*<for products supplied in pre-measured tear open packets>*

**PACKET DISPOSAL** – Nonrefillable container (packet). Do not reuse this container (packet), discard empty container (packet) in trash.

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

## **DIRECTIONS FOR USE**

### **DIRECTIONS FOR USE**

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

**GENERAL DEODORIZATION:** To deodorize, add 1.5 ounces of This product to 5 gallons of water (or equivalent use dilution) (469 ppm active quat). Let air dry.

**SANITIZATION** - For use in restaurants, food service establishments, dairies, food processing plants, and bars. When used as directed this product is an effective sanitizer against *Campylobacter jejuni* (ATCC 29428), *Escherichia coli* (ATCC 11229), *Escherichia coli* O157:H7 (ATCC 43895), *Staphylococcus aureus* (ATCC 6538), *Yersinia enterocolitica* (ATCC 23715), and *Listeria monocytogenes* (ATCC 35152) in 60 seconds.

Remove all gross food particles and soil from areas that are to be sanitized with a good detergent, pre-flush, pre-soak or pre-scrape treatment. Rinse with a potable water rinse.

When used for sanitization of previously cleaned (public eating establishment food contact surfaces, dairy processing equipment, food contact items), limit the active quaternary to 400 ppm. NO POTABLE WATER RINSE IS REQUIRED. This product is an effective sanitizer when diluted in water up to 650 ppm hardness (CaCO<sub>3</sub>).

**To sanitize pre-cleaned and potable water-rinsed, non-porous public eating establishment and dairy food contact surfaces:** prepare a 200-400 ppm active quaternary solution by adding 0.5–1 ounce of this product to 4 gallons of water, 1.25–2.5 ounces to 10 gallons of water, or 2.5–5 ounces to 20 gallons of water. Prepare a fresh use-solution daily or more frequently as soil is apparent.

**To prepare a 200, 300 or 400 ppm active quaternary solution,** use the following dilution table:

Active Quat Solution	1 Gallon	4 Gallons	10 Gallons	20 gallons
200 ppm	0.125 ounce	0.5 ounce	1.25 ounces	2.5 ounces
300 ppm	0.188 ounce	0.75 ounce	1.88 ounces	3.75 ounces
400 ppm	0.25 ounce	1 ounce	2.5 ounces	5 ounces

<Alternative language for **Sanitizer** product supplied in pre-measured tear open packets>

**PACKETS**– (Simply) (tear) open and pour contents of (0.25 oz packet into 2 gallons of water) (0.5 oz. packet into 4 gallons of water). Keep packets in box until ready to use.

or

Pour contents of 0.25 oz. packet into 2 gallons of water. Keep packets in box until ready to use.

or

Pour contents of 0.5 oz. packet into 4 gallons of water. Keep packets in box until ready to use.

**DISINFECTION** - To disinfect inanimate, hard, non-porous, non-food contact surfaces apply use-solution with mop, cloth, sponge, low pressure coarse sprayer or hand-pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

For low pressure coarse sprayer and hand pump trigger sprayer applications, spray 6-8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray.

Note: for spray applications, cover or remove all food products.

<Required if making a HIV-1, HBV, and/or HCV claim on product label>

**KILLS HIV-1, HBV and HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings (hospitals, nursing homes) or

Bracketed information is denoted as: {insert as noted }, ( optional text ), [ required qualifier ], <note>

The term "this product" used throughout this document may be replaced with the marketed product brand name.

The term "x" is a place holder for numerical digits.

Punctuation and plural/singular word forms may be adjusted to allow for grammatical correctness.

Appropriate metric or imperial unit may be added as optional, supplemental information.

other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), Hepatitis B virus (HBV) and Hepatitis C virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV and HCV OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** When handling items soiled with blood or body fluids use disposable latex gloves, gowns, masks, or eye coverings.

**CLEANING PROCEDURES:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product.

**CONTACT TIME:** Allow surface to remain wet for 10 minutes.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**DILUTION RATES:**

**GENERAL DISINFECTION** - Add 1.5 ounces of this product per 5 gallons of water for disinfection against *Staphylococcus aureus* (ATCC 6538), *Salmonella choleraesuis* (ATCC 10708), *Listeria monocytogenes* (ATCC 35152), and *Yersinia enterocolitica* (ATCC 23715).

**General Disinfectant/Non-Medical Dilution Chart:**

Product Amount	Water Volume
0.075 ounce	1.0 quart
0.15 ounce	0.5 gallon
0.3 ounce	1.0 gallon
0.75 ounce	2.5 gallons
1.5 ounces	5.0 gallons
3.0 ounces	10.0 gallons

**HOSPITAL DISINFECTION** - Add 1.75 ounces of this product per 5 gallons of water for disinfection against *Pseudomonas aeruginosa* (ATCC 15442) and Vancomycin intermediate resistant *Staphylococcus aureus* (VISA) on non-food contact surfaces, as well as the organisms listed under the GENERAL DISINFECTION and \*VIRUCIDAL ACTIVITY sections.

**Hospitals, Dental Offices, Nursing Homes and other Health Care Institutions Disinfection and Virucide Dilution Chart:**

Product Amount	Water Volume
0.0875 ounce	1.0 quart
0.175 ounce	0.5 gallon
0.35 ounce	1.0 gallon
0.875 ounce	2.5 gallons
1.75 ounces	5.0 gallons
3.5 ounces	10.0 gallons

**\* VIRUCIDAL ACTIVITY** – This product, when used on hard, non-porous, inanimate, environmental surfaces at 1.75 ounces per 5 gallons of water exhibits effective virucidal activity against {insert organism(s) from virucidal activity section of chart on page 7.} OR (Influenza A<sub>2</sub>/Japan (representative of the common flu virus), Herpes Simplex Type 1 (causative agent of fever blisters), Adenovirus Type 5 (causative agent of upper respiratory infections), Vaccinia Virus (representative of the pox virus group, Avian Influenza A virus (H7N9), Avian Influenza A/Turkey/Wisconsin (causative agent of an acute avian lower respiratory tract infection), Newcastle Disease Virus, Laryngotracheitis Virus, HIV-1 (Human Immunodeficiency Virus Type 1), Hepatitis B virus (HBV), Hepatitis C virus (HCV), Bovine Viral Diarrhea Virus (BVDV) and Human Coronavirus (ATCC VR-740, Strain 229E).)

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Appropriate metric or imperial unit may be added as optional, supplemental information.

**MILDEWSTAT** - To control mold and mildew on pre-cleaned, hard, non-porous surfaces add 1.5 ounces of This product per 5 gallons of water. Apply solution with a cloth, mop or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

*<Alternative language for bag in the box dispensing equipment>*

**Directions For Bag-In Box Containers.**

**HOW TO USE THIS PACKAGE:** This package is designed to be used with dilution control systems only. Open package and connect to dispense according to directions on the box.

**TRIGGER SPRAYERS:** Fill bottle from dispenser. Apply to surfaces according to directions above.

**MOP BUCKETS:** Fill bucket from dispenser. Set up "Wet Floor" signs. Mop floor surfaces as specified in directions above.

## **SITE AND APPLICATION SPECIFIC DIRECTIONS FOR USE**

### **DEODORIZATION AND CLEANING**

**For Deodorizing Garbage Cans, Garbage Trucks, Industrial Waste Receptacles and Garbage Handling Equipment:** It is especially important to pre-clean for this product to perform properly. Apply a wetting concentration of 1.625 ounces of this product or per gallon of water (or equivalent use dilution) (2500 ppm active quaternary).

**For Odors Caused by Dogs, Cats and Other Domestic Animals:** Use on rugs, floors, walls, tile, cages, litter boxes, mats, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for GENERAL DEODORIZATION.

**Cleansing of Body Surfaces and Body Orifices of Human Remains.** To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, and to remove and reduce surface contamination, apply 1.75 ounces of This product to 5 gallons of water (or equivalent dilution) (547 ppm active quaternary) (or equivalent dilution) to the surfaces and body openings, natural or artificial. Allow 10 minute contact time for optimal results. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Prepare a fresh solution for application to each remains.

**LAUNDRY BACTERIOSTAT FOR COMMERCIAL, INDUSTRIAL, AND NON-MEDICAL INSTITUTIONAL LAUNDRY APPLICATIONS:** This product provides the fabric with residual bacteriostatic activity against odor causing gram-negative and gram-positive bacteria when this product is added to the final rinse at a rate of 4.8 ounces per 100 lbs. of dry laundry.

*<Not for Use in California>*

**Water damage restoration:** For institutional, industrial and hospital use. This product is suitable for use in water damage restoration as a deodorizer on the following porous and semi-porous materials: carpets, cushions, sub floors, drywall, trim, frame lumber, tackless strip and paneling. Use a solution of 1.75 ounces of This product per 5 gallons of water (or equivalent dilution). Saturate all affected materials with enough solution to remain wet for a minimum of 10 minutes. Use proper ventilation.

**Smoke damage restoration:** Effective as a deodorizer for industrial, institutional and hospital use. This product is for use in smoke damage restoration situations to deodorize the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim and frame lumber, tackless strip and paneling. Follow directions in the Water Damage Restoration section. Using the use-solutions, saturate affected materials with enough product to remain wet for a minimum of 10 minutes. Use proper ventilation.

**Sewer backup and river flooding:** During mitigation procedures, dilute 0.55 to 1.1 ounces of This product per gallon of water. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with the use-solution of this product. Apply the use-solution with a low pressure, coarse sprayer before and after cleaning and extraction.

**Carpet, carpet cushions and other porous materials such as sub floors, drywall, trim and frame lumber, tackless strip and paneling:** For water damage from a clean water source, extract excess water. Test a hidden area for colorfastness. Remove gross filth or heavy soil. Dilute 0.55 to 1.1 ounces of This product per gallon of water (859-1718 ppm active quaternary). Apply the use-solution with a low pressure coarse sprayer to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Thoroughly dry all materials rapidly.

**Special instructions for carpet deodorization:** This product may be used in motels, hotels, nursing homes, schools and hospitals. This product is for use on wet, cleanable, synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for colorfastness.

- **For portable extraction units:** Mix 0.55 ounce per gallon of water.
- **For truck mounted extraction machines:** Mix 6.75 ounces per gallon of water and meter at 4 gallons per hour.
- **For rotary floor machines:** Mix 1.1 ounces per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix This product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product set the carpet pile in one direction with a stiff brush and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply fabric protector according to the carpet manufacturer's directions.

**Carpet deodorization for industrial and institutional use, and hospital use:** This product may be used in motels, hotels, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 0.55 ounce per gallon of water. Follow injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 1.1 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use on washable synthetic fibers. Do not use on wool. Test colorfastness of carpet before use. Apply diluted product to a small concealed spot, then rub with a clean white cloth. If color changes or transfers to cloth, a water based product should not be used.

After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse.

**NOTE:** This product must not be mixed with other cleaning chemicals.

## **SANITIZATION**

**To sanitize mobile items in public eating establishments** (drinking glasses, dishes, eating utensils), immerse in a 200-400 ppm active quaternary solution for at least 60 seconds, making sure to immerse completely. Remove items, drain the use-solution from the surface, and air dry. Do not rinse.

**To sanitize public eating establishment surfaces** (counters, tables, non-wooden (plastic) cutting boards), apply a 200-400 ppm active quaternary solution with a (cloth, sponge, low pressure coarse sprayer or hand pump trigger sprayer) making sure that the surface remains completely wet for at least 60 seconds and let air dry. Do not rinse.

**To sanitize dairy processing equipment** (tanks, piping, pasteurizers, milking equipment) (apply a 200-400 ppm active quaternary solution with a low pressure coarse sprayer) or (circulate a 200-400 ppm active quaternary solution throughout the equipment). Surfaces must remain thoroughly wet for at least 60 seconds, followed by adequate draining and air drying. Do not rinse.

At 0.5–1 ounce per 4 gallons, this sanitizer fulfills the criteria of Appendix F of the Grade A Pasteurized Milk Ordinance 1978 Recommendations of the U. S. Public Health Services in waters up to 650 ppm of hardness calculated as CaCO<sub>3</sub> when evaluated by the AOAC Germicidal and Detergent Sanitizer Method against Escherichia coli and Staphylococcus aureus.

### **Sanitization of beverage dispensing equipment:**

1. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
2. Fill equipment with a use-solution of 0.125–0.25 ounce of this product (or trade name) per gallon of water (or equivalent dilution) (200–400 ppm active quaternary).
3. Allow use-solution to remain in equipment for at least 60 seconds.
4. Drain thoroughly and allow to air dry before reuse. Do not rinse with potable water.

*<This statement is required for marketing food contact sanitizers in Wisconsin.>*

## **WISCONSIN STATE DIVISION OF HEALTH**

### **DIRECTIONS FOR EATING ESTABLISHMENTS**

1. Scrape and pre-wash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with clean water.

4. Sanitize in a solution of 0.5–1 ounce to 4 gallons of water (200-400 ppm active quaternary). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air dry.

**NOTE:** A clean potable water rinse following sanitization is not permitted under Section HFS 196.13 of the Wisconsin Administrative Code.

#### **U.S. PUBLIC HEALTH SERVICE FOOD SERVICE SANITIZATION**

**Cleaning and sanitizing:** Equipment and utensils must be thoroughly pre-flushed or pre-scraped and when necessary, pre-soaked to remove gross food particles and soil.

1. Thoroughly wash equipment and utensils in hot detergent solution.
2. Rinse utensils and equipment thoroughly with potable water.
3. Sanitize equipment and utensils by immersion in a use-solution of 0.5–1 ounce of this product per 4 gallons of water (or equivalent dilution) (200-400 ppm active quaternary) for at least 60 seconds at a temperature of 75°F.
4. For equipment and utensils too large to sanitize by immersion, apply a use-solution of 0.5–1 ounce of this product per 4 gallons of water (or equivalent dilution) (200-400 ppm active quaternary) by rinsing, spraying or swabbing until thoroughly wet.
5. Allow sanitized surface to drain and air dry. Do not rinse.

**To sanitize previously cleaned food-grade eggs** in shell egg and egg product-processing plants, spray with a use-solution of 0.5 ounce of this product in 4 gallons of warm water (200 ppm quat). The use-solution must be warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with this use-solution are subjected to a potable water rinse only if they are broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. The use-solution must not be reused for sanitizing eggs.

**To sanitize immobile food processing equipment and surfaces** (tanks, non-wooden (plastic) chopping blocks, counter tops, conveyors) flood the area with a 200-400 ppm active quaternary solution for at least 60 seconds, making sure to wet all surfaces completely. Drain the use-solution from the surface, and air dry.

**To sanitize mobile food processing utensils** (knives, grinders, shredders, cleavers, ladles), immerse in a 200-400 ppm active quaternary solution for at least 60 seconds, making sure to immerse completely. Remove, drain the use-solution from the surface, and air dry.

When used for sanitization of previously cleaned food processing equipment and utensils, limit the active quaternary to a maximum of 400 ppm. **NO POTABLE WATER RINSE IS REQUIRED.** This product is an effective sanitizer when diluted in water up to 650 ppm hardness (CaCO<sub>3</sub>).

#### **Sanitization of food processing equipment, utensils, and other food contact articles regulated under 40CFR180.940:**

1. Scrape, flush, or pre-soak articles (whether mobile or stationary) to remove gross food particles and soil.
2. Thoroughly wash articles with a compatible detergent or cleaner.
3. Rinse articles thoroughly with potable water.
4. Sanitize by immersing articles with a use-solution of 0.5-1 ounce of this product (or trade name) per 4 gallons of water (or equivalent dilution) (200–400 ppm active quaternary) for at least 60 seconds. Articles too large for immersion must be thoroughly wetted by rinsing, spraying or swabbing.
5. Remove immersed items from solution to drain and then let air dry. Allow non-immersed items to be air dried.

**Sanitization of sanitary filling equipment:** Prepare a use-solution of 0.125-0.25 ounce of this product per gallon of water (or equivalent dilution) (200-400 ppm active quaternary) for final washer and rinse applications. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse. Do not rinse.

**Sanitization of beer fermentation and storage tanks:** For sanitization of beer fermentation and holding tanks, citrus and food processing storage and holding tanks. Prepare a use-solution of 0.125-0.25 ounce of this product per gallon of water (or equivalent dilution) (200-400 ppm active quaternary) for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse. No rinse is allowed. For mechanical operations or automated systems, the used sanitizing solution must not be reused for sanitization.

**For continuous treatment of meat and poultry or fruit and vegetable conveyors:** Remove gross food particles and excess soil by a pre-flush or pre-scrape, wash with a compatible detergent or cleaner. Rinse equipment thoroughly with potable water. Apply 0.5–1 ounce of this product per 4 gallons of water (or equivalent use dilution) (200-400 ppm active quaternary) to conveyors with suitable feeding equipment. Do not allow this solution to be sprayed directly on food. Controlled volumes of the sanitizer solution are applied to return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer solution from equipment and to prevent puddles on top of belt. During interruptions in operation, use a low pressure coarse sprayer to apply a use-solution of 0.5-1 ounce of this



product per 4 gallons of water (or equivalent) (200-400 ppm quaternary) to equipment, peelers, collators, slicers and saws. Conveyor equipment must be free of product when applying this coarse spray.

#### **Sanitization of Interior Surfaces of Water Softeners and Reverse Osmosis (RO) Units**

**Water Softeners** – Sanitization is to occur after initial installation, after the system is serviced and periodically during its use.

1. Backwash the softener and add (1 ounce of sanitizer per 8 gallons of water) (0.5 ounce per 4 gallons of water) (one 0.5 ounce pre-measured packet per 4 gallons of water) (or equivalent use dilution) (200 ppm active quaternary) to the brine tank well. (NOTE: standard system capacity is 48 gallons.) (The brine tank should have water in it to permit the solution to be carried into the softener.)
2. Proceed with the normal regeneration or interrupt the cycle after the brining step and let the softener soak for a minimum of 60 seconds.
3. Backwash the softener with potable water to make sure all sanitizing solution is thoroughly rinsed from the unit before returning it to service.

**Reverse Osmosis (RO) Units** – Sanitization is to occur after initial installation, after the system is serviced and periodically during its use.

1. Turn off RO system, drain storage tank and remove membrane element and pre-filters. Put membrane element in a plastic bag so it remains wet.
2. Fill empty pre-filter housing with (1 ounce of sanitizer per 8 gallons of water) (0.25 ounce of sanitizer per 2 gallons of water) (one 0.25 ounce pre-measured packet per 2 gallons of water) (or equivalent use dilution) (200 ppm active sanitizer) and turn on raw water. (NOTE: standard system capacity is 1-2 gallons.)
3. After holding tank is full, let system stand idle for a minimum of 60 seconds. Turn off water. Drain holding tank.
4. Before the system is put back into service, flush system with potable water to assure sanitizing solution is rinsed thoroughly from system. Follow the manufacturer's directions for re-installation of new pre-filters, membrane element and post filter.

#### **Sanitization of Interior Surfaces of Ice Machines, Water Coolers, Water Holding Tanks and Pressure Tanks**

**Ice Machines** – Sanitization is to occur after initial installation, after the machine is serviced and periodically during its use.

1. Shut off incoming water line to machine.
2. Prepare a solution of 1 ounce of sanitizer per 8 gallons of water (200 ppm active quaternary).
3. Circulate solution through machine making sure to wet all surfaces and allow a minimum contact of 60 seconds.
4. Drain and completely flush system twice with potable water.
5. Return machine to normal operation.

**Water Coolers, Water Holding Tanks and Pressure Tanks** – Sanitization is to occur after initial installation, after the system is serviced and periodically during its use.

1. Shut off incoming water line.
2. Prepare a solution of 1 ounce of sanitizer per 8 gallons of water (200 ppm active quaternary).
3. Apply or circulate (if possible) to wet all surfaces and allow a minimum contact of 60 seconds.
4. Drain and completely flush system twice with potable water.
5. Return to service by opening incoming water lines.

## **DISINFECTION**

**Non-acid toilet bowl and urinal disinfectant directions:** Remove heavy soil prior to disinfecting. Empty toilet bowl or urinal and apply a use-solution of 1.75 ounces per 5 gallons of water (or equivalent dilution) to exposed surfaces including under the rim with a cloth, mop, sponge or hand pump trigger sprayer. Brush or swab thoroughly, then allow to remain wet for 10 minutes and flush.

**To disinfect food processing premises:** floors, walls, and storage areas, add 1.5 ounces of this product per 5 gallons of water (or equivalent dilution). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. Before using this product, food products and packaging materials must be removed from the area or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**To disinfect food service establishment or restaurant food contact surfaces:** countertops, outside of appliances, tables, add 1.5 ounces of This product per 5 gallons of water (or equivalent dilution). For heavily soiled areas, a pre-cleaning step is required. Apply use-solution with a cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. Do not use on utensils, dishes, glasses or cookware.

**Disinfecting potato storage area and equipment:** Remove all potatoes prior to disinfection of potato storage area or equipment. Pre-clean hard surfaces by removing heavy soil or gross filth. Follow general disinfection (1.5 ozs. per 5 gal.) procedure described above. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

**For use as a general disinfectant on brewery premises (non-food contact surfaces):** Floors, walls, and storage areas add 1.5 ounces of This product per 5 gallons of water (or equivalent dilution). For heavily soiled areas, a pre-cleaning step is required. Apply use-solution with a mop, cloth, sponge, low pressure coarse sprayer or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. Before using product, food products (beer, wort, hops, mash, grain, brew ingredients) must be removed from the area or carefully protected. After use, all surfaces must be thoroughly rinsed with potable water.

**Ultrasonic bath disinfectant directions:** Use This product to disinfect hard, non-porous, non-critical instruments/objects compatible with Ultrasonic cleaning units. Pour fresh use-solution of 1.75 ounces per gallon of water (or equivalent dilution) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturer's use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Prepare a fresh solution for each use.

**Whirlpool bath disinfection directions:** After using whirlpool unit, drain and fill with a use-solution of 1.75 ounces of This product per 5 gallons to just cover the intake valve. Start pump to circulate 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 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.

**Commercial Florist Use Directions:** To clean, disinfect and deodorize hard non-porous surfaces in one step, prepare use-solution by adding (mixing) 1.75 ounces per 5 gallons of water. For heavy-duty use, add (mix) 2 ounces per gallon of water.

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use-solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, brush, sponge, hand pump trigger sprayer or low pressure coarse sprayer.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, spray 6-8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray mist.

Treated surfaces must remain wet for 10 minutes. Allow to air dry.

Prepare a fresh solution at least daily or sooner if use-solution becomes visibly dirty.

**Disinfection of poultry/turkey equipment, swine quarters, animal quarters and kennels:** For disinfection of pre-cleaned poultry equipment (brooders, watering founts, feeding equipment), animal quarters and kennels, apply a use-solution of 1.75 ounces of This product per 5 gallons of water. Remove all poultry, animals, and feed from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry or animals. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate the surfaces with the disinfecting solution for a period of 10 minutes. 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 building, coops, and other closed spaces. Do not house poultry or animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water must be rinsed with potable water before reuse.

**Hatcheries:** To disinfect and provide virucidal\* activity, use 1.75 ounces of This product per 5 gallons of water (or equivalent dilution). Apply to hatcheries, setters, trays, racks, carts, sexing tables, delivery trucks and other hard, non-porous surfaces. Leave all treated surfaces exposed to the use-solution for a minimum of 10 minutes and allow to air dry.

**Vehicles:** Clean all vehicles including mats, crates, cabs and wheels with high pressure water and (this product). For spray applications use a coarse spray device. Use 1.75 ounces of This product per 5 gallons of water (or equivalent dilution) for disinfection and virucidal\* activity. Leave all treated surfaces exposed to the use-solution for a minimum of 10 minutes and allow to air dry.

**Dressing plant disinfectant/virucidal\* directions:** Apply a use-solution of 1.75 ounces per 5 gallons of water (or equivalent dilution) to equipment, utensils, walls and floors in poultry and animal dressing plants. Equipment and utensils must remain wet for a minimum of 10 minutes then thoroughly rinsed with potable water before resuming operations. Disinfect all rooms, exterior walls and loading platforms of dressing plants.

**Farm premise disinfection:** For use in Equine, Dairy and Hog Farms.

1. Remove all animals and feed from premises, vehicles and enclosures.

2. Remove all litter and manure from floors, walls and surfaces of barn, pens, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with a compatible soap or detergent and rinse with potable water.
5. Saturate all hard, non-porous surfaces with a use-solution of 1.75 ounces per 5 gallons of water (or equivalent dilution) and allow to remain wet for a minimum of 10 minutes.
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with a compatible soap or detergent and rinse with potable water before reuse.

**Veterinary clinics/animal life science laboratory/pet shop/kennels/breeding and grooming establishments/tack shops disinfection directions:** For cleaning and disinfection of the following hard, non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with a compatible soap or detergent and rinse with potable water. Saturate all hard, non-porous surfaces with a use-solution of 1.75 ounces of This product per 5 gallons of water (or equivalent dilution) for a 10 minutes minimum. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Scrub all treated feed racks, automatic feeders, waterers and other equipment that dispenses food or water with a compatible soap or detergent and thoroughly rinse with potable water before reuse.

**KILLS HIV-1 ON LAUNDRY IN COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL APPLICATIONS.** This product provides virucidal activity against HIV-1 on fabrics when added to the final rinse at a rate of 3.0 ounces per 100 pounds of dry laundry.

This product, when added to the final rinse, will provide virucidal activity against HIV-1 at a dosage rate of 1 ounce (1/8 cup) per load in small capacity top-loading and front-loading commercial, industrial and non-medical institutional laundering machines.

**<Not for use in California>**

**Directions for fogging dairies, beverage and food processing plants:** Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 0.75 ounce per of product to 1 gallon of water (1160 ppm active quaternary). Vacate the area of all personnel for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed with potable water before reuse.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

**Hatchery rooms using fogging devices:** Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with a compatible cleaner or detergent and rinse thoroughly with potable water. Close off room so fog is confined to room to be treated. Mix 70 ounces of this product to 2.5 gallons of water. Insert the fogger nozzle through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of room space. When fogging is completed, ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with a compatible soap or detergent and rinse thoroughly with potable water.

**Incubators and hatcheries using fogging devices:** Mix 6.75 ounces of this product to 120 ounces of water. Fog 3 to 8 ounces of this use-solution into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch.

It is acceptable to fog hatchers and setters with a 0.55 ounce per gallon use-solution of this product on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains

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Appropriate metric or imperial unit may be added as optional, supplemental information.

and waterers with a compatible soap or detergent, and thoroughly rinse with potable water. Best results are achieved with use-solution water temperature ranging from 78-110°F.

**NOTE:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, the individuals entering the building must wear a self-contained respiratory approved by NIOSH/MSHA, goggles, long sleeves and long pants.

**MUSHROOM FARM PREMISE USE:**

**Site Preparation:** The first step in any on-going sanitation program should be the removal of gross contamination and debris. This may be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

**Cleaning and Disinfection:** For general disinfection, use 1.5 ounces of this product per 5 gallons of water (or equivalent dilution). Apply use-solution with a cloth, mop, sponge, low pressure coarse sprayer or by immersion to thoroughly wet all surfaces. Treated surfaces must remain wet for a minimum of 10 minutes. Wipe or allow to air dry. For heavily soiled areas, pre-clean first. Prepare a fresh solution for each use or more often if use-solution becomes visibly diluted, clouded or soiled.

**For Heavy Duty Cleaning:** When greater cleaning is desired, use 3 ounces of this product per 5 gallons of water (or equivalent dilution). Heavily soiled areas may require repeated cleaning before treatment.

**DO NOT APPLY THE USE-SOLUTION TO THE MUSHROOM CROP, COMPOST OR CASING.** Thoroughly rinse treated surfaces with potable water before they contact crop, compost or casing.

**CITRUS CANKER CONTROL –** For prevention of Citrus Canker Disease through treatment of equipment. (This product ), when used at a 1:96 dilution (2000 ppm active quaternary) or 1.335 ounces (40 ml) per gallon of water up to 200 ppm hardness (as CaCO<sub>3</sub>), is effective against *Xanthomonas axonopodis* pathovar *citri* (Citrus Canker). Treat all trucks, vehicles, and equipment thoroughly at the 1:96 dilution. Treatment is applied to trucks, attached trailers, field harvesting equipment; including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using the maximum rate of 2000 ppm quaternary. After use, all surfaces which come in contact with food or crop must be rinsed with potable water.

**Salon (barber) instruments and tools disinfection (bactericide/ virucide\*) directions:** Mix 1.75 ounces of This product per 5 gallons of water (or equivalent dilution) to disinfect, hard, non-porous instruments and tools. Completely immerse combs, brushes, rollers, razors, scissors, blades, manicure and other salon instruments and tools for 10 minutes. For heavily soiled instruments and tools a preliminary cleaning is required. Rinse thoroughly and dry before use. Prepare a fresh solution daily or more often if the solution becomes visibly cloudy or soiled.

**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.

**To sanitize barber/salon instruments and tools:** Immerse pre-cleaned barber/salon instruments and tools (combs, brushes, razors, scissors, blades and manicure instruments) in a use-solution of 0.5 ounce of This product per 4 gallons of water (or equivalent dilution) for at least 60 seconds (one minute). Rinse thoroughly and dry before use. Prepare a fresh solution daily or more often if solution becomes visibly cloudy or soiled.

**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.

## **MILDEWSTAT**

**To Control 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).** Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 1.5 ounces of this product per 5 gallons of water (0.3 ounce per gallon of water) (469 ppm active quaternary) (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

## **PACKET LABEL**

<Packet size and amount of water specified must correspond with appropriate dilution specified in directions for use.>  
(0.25)(0.5)(X) OUNCE PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL:

MIX EACH PACKET WITH (2)(4)(X) GALLONS OF WATER

# **BTC<sup>®</sup> 2125M 20% SOLUTION**

**E.P.A. Reg. No. 1839-155**  
**E.P.A. Est. No. 1839-IL-1 (XXX-XX-XXX)**

NET CONTENTS: (0.25) (0.5)(x) FLUID OZ.

### **ACTIVE INGREDIENTS**

Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>12</sub> , 5% C <sub>18</sub> )	
dimethyl benzyl ammonium chlorides .....	10.0%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl	
ethylbenzyl ammonium chlorides .....	10.0%
<b>INERT INGREDIENTS</b> <u>80.0%</u>	
TOTAL .....	100.0%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE DIRECTIONS**

**DISPOSAL:** Do not reuse packet; discard empty packet in trash.

STEPAN COMPANY  
22 W. Frontage Rd.  
Northfield, IL 60093

## **GRAPHICS**

< The following may be used only if the supplemental registrant has obtained an NSF listing.>



< The following may be used only if the supplemental registrant has obtained a Kosher certification.>

(Any Kosher Symbol such as:)



(Note to Reviewer: not for use on final in-commerce product label)

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### Emerging Viral Pathogen Claims

**Product Name** -or- this product qualifies for emerging viral pathogen claims per the EPA’s ‘Guidance to Registrants:

Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels’ when used in accordance with the appropriate use directions indicated below:

**Product Name** -or- this product meets the criteria to make claims against certain emerging viral pathogens from the following viral categories:

- Enveloped viruses

<b>For an emerging viral pathogen that is a/an...</b>	...follow the directions for use for the following organisms on the label:
Enveloped virus	Adenovirus Type 5

**Product Name** -or- this product has demonstrated effectiveness against viruses similar to **[name of emerging virus]** on **hard, non-porous surfaces**. Therefore, **Product Name** -or- this product can be used against **[name of emerging virus]** when used in accordance with the directions for use against **Adenovirus Type 5** on **hard, non-porous surfaces**. Refer to the **[CDC or OIE]** website at **[pathogen-specific website address]** for additional information.

**[Name of illness/outbreak]** is caused by **[name of emerging virus]**. **[Product name]** kills similar viruses and therefore can be used against **[name of emerging virus]** when used in accordance with the directions for use against **Adenovirus Type 5** on **hard, non-porous surfaces**. Refer to the **[CDC or OIE]** website at **[website address]** for additional information.

.....

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