

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 6 2004

Mr. Robert Sloan  
Lonza, Inc  
17-17 Route 208  
Fair Lawn, NJ 07410

Subject: Lonza Formulation S-21F  
EPA Registration No. 6836-140  
Amendment Date: January 6, 2004  
EPA Receipt Date: January 8, 2004

Dear Mr. Sloan,

The amendment submitted in connection with registration under FIFRA section 3(c)(7)(A) is acceptable with the conditions below.

- Addition of Bacterial Stability Claim
- Addition of Organisms

**Conditions**

Revise the label as follows:

1. Page 3: Specify that the picnic tables and Outdoor (patio) furniture are hard nonporous surfaces by stating *Non-wooden picnic tables and "Outdoor (patio) furniture except cushions and wood frames.*
2. Page 5: Since Ringworm is caused by several different fungi, revise the claim to read as *"Trichopyton mentagrophytes (A cause of ringworm) or (A cause of ringworm of the foot).*
3. Page 6: Revise Use Dilution Table
  - To obtain a 200 ppm quat solution, a 1:138 use dilution must be made.
  - To obtain a 400 ppm quat solutin, a 1:175 use dilution must be made.
4. Page 6: Delete the Bacterial Stability of Use-Dilution directions. (Refer to acceptable data section)

CONCURRENCES

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3/15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Data Requirement	Means of Support	Status
AOAC Sanitizing Action of Disinfectants - <i>Vibrio cholerae</i>	Submitted study, MRID 460507-03	Acceptable
Virucidal Effectiveness Test - Human Coronavirus	Submitted study, MRID 460507-04	Acceptable
AOAC Sanitizing Action of Disinfectants - <i>S. choleraesuis</i>	Submitted study, MRID 460507-05	Acceptable
AOAC Use Dilution Method - <i>Legionella pneumophila</i>	Submitted study, MRID 460507-06	Acceptable
Bacterial Stability Use-Dilution Testing - <i>P. aeruginosa</i>	Submitted study, MRID 460507-07	Unacceptable
Bacterial Stability Use-Dilution Testing - <i>S. aureus</i>	Submitted study, MRID 460507-08	Unacceptable
Bacterial Stability Use-Dilution Testing- <i>S. choleraesuis</i>	Submitted study, MRID 460507-09	Unacceptable

According to Agency letter dated January 30, 2004, the study MRID No. 460507-01 was unacceptable in supporting the product against *L. monocytogenes*. The data contained three invalid data sets in which a lot of inconsistencies were noted. Before this product may make a Listeria claim, the data must be found acceptable or a new study be referenced or submitted for review. **Delete the organism from the label.**

The Bacterial Stability data in MRID Nos. 460507-07 thru 460507-09 is unacceptable because the data does not reflect testing conducted with 400 ppm hard water tolerance level since the product tested was a ready-to-use formulation. You will need to submit additional information about how the tested product was prepared before this data is accepted

**General Comments**

A stamped copy of the label accepted with conditions is enclosed. Submit three (3) copies of your final printed label before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

Should you have any questions or comments concerning this letter, please contact Jacqueline McFarlane at (703) 308-6416.

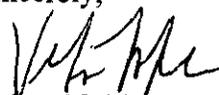
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4/15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure: Stamped Label  
Efficacy Data Evaluation

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**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 protective eyewear (goggles, face shield or safety glasses), protective (rubber or chemical resistant) gloves and protective clothing. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**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 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 SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling poison control center or doctor or going for treatment.

*(Note to reviewer: If container size is 5 gallons or larger, the following Environmental Hazards statements will be used.)*

**ENVIRONMENTAL HAZARDS**

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.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**JUL 6 2004**  
**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 6836-140**

**LONZA FORMULATION S-21F**

One-Step Disinfectant

Cleaner - Sanitizer - Fungicide  
Mildewstat - Virucide\* - Deodorizer  
for Homes, Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness  
(calculated as CaCO<sub>3</sub>) in the presence of 5% serum  
contamination

For Farm, School, Dairy, Restaurant, Food Handling and  
Processing Areas, Bar and Institutional Kitchen Use

- Formulated for Effective Farm Premise Sanitation
- Formulated for Effective Poultry Premise Sanitation
- Formulated for Effective Swine Premise Sanitation
- Formulated for Effective Mushroom Farm Sanitation
- Formulated for Veterinary Practice / Animal Care / Animal Laboratory Disinfection

For use in federally inspected meat and poultry plants

An effective sanitizer for use on food contact surfaces

- Staphylocidal • Pseudomonacidal • Bactericidal
- Salmonellacidal • Fungicidal • Virucidal\*

**Active Ingredients:**

Octyl decyl dimethyl ammonium chloride .....	1.65%
Dioctyl dimethyl ammonium chloride .....	0.66%
Didecyl dimethyl ammonium chloride .....	0.99%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	2.20%
Other Ingredients: .....	<u>94.50%</u>
Total: .....	100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER (PELIGRO)**

See (left) (side) (right) (back) panel for Precautionary  
Statements and First Aid

EPA Reg. No. 6836-140  
EPA Est. No. (insert EPA Establishment No. here)  
Net Contents (insert container size here)

Manufactured by:  
LONZA INC., 17-17 Route 208, Fair Lawn, NJ 07410

Lonza Formulation S-21F (Note to reviewer: Language in ( ) is optional or interchangeable)

EPA Reg. No. 6836-140

EPA DRAFT LABEL DATED 11-20-03

*Note to reviewer: The following is considered optional marketing language.*

Concentrate (Concentrated)  
Disinfects (Disinfectant)  
Cleans (Cleaner)  
Deodorizes (Deodorant)  
This product contains no (phosphates or) phosphorous (compounds).

**Lonza Formulation S-21F:**

- delivers non-acid disinfectant and cleaning performance in an economical concentrate.
- is effective yet economical.
- is an economical concentrate (that can be diluted for use) (with a mop and bucket, trigger sprayers, sponge or by soaking).
- (is a heavy duty disinfectant cleaner that) cleans, disinfects and deodorizes in one labor saving step.
- deodorizes by killing microorganisms that cause offensive odors.
- (improves labor results by) effectively controls (controlling) malodors.
- will disinfect, clean and deodorize surfaces in rest rooms and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.
- is formulated for use in daily maintenance programs with a balance of detergents, biocides and malodor counteractants that deliver effective cleaning, disinfecting and malodor control.
- is a complete, chemically balanced disinfectant (and sanitizer) (that provides clear use solutions even in the presence of hard water).
- will not leave grit or soap scum.
- is a (versatile) disinfectant and sanitizer for hard, nonporous surfaces in Veterinarian, Animal care and Farm Premise applications.
- is a (versatile) cleaner and broad spectrum disinfectant formulated for use only on non-critical instruments in Ultrasonic Baths (Ultrasonic cleaning units).
- is a (concentrated) (one-step) (Hospital Use) disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1, the AIDS Virus and Hepatitis B Virus and Hepatitis C Virus), fungicidal, and inhibits the growth of mold and mildew, and their odors, when used as directed.
- is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.
- meets AOAC efficacy standards for hospital disinfectants.
- meets EPA Sanitizer Test standards for non-food contact sanitizers.
- is a proven one-step disinfectant - cleaner - sanitizer - fungicide - mildewstat - virucide\* which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.
- meets AOAC Germicidal & Detergent standards for previously cleaned food-contact surfaces.
- has been cleared by the FDA in 21 CFR §178.1010 for use on food processing equipment, utensils and other food-contact articles.

Cross-contamination is of major housekeeping concern. **LONZA FORMULATION S-21F** has been formulated to aid in the reduction of cross-contamination not only in hospitals, but in schools, institutions and industry.

**Use Lonza Formulation S-21F**

- in federally inspected Meat & Poultry Plants as a food contact sanitizer and / or disinfectant. This product was authorized by USDA as category D2 under the prior authorization program and its formula has not been changed – a sanitizer for all surfaces not always requiring a rinse.
- as a disinfectant on hard, nonporous surfaces.
- in kitchens, bathrooms and other household areas.
- to clean and disinfect finished floors, sinks and tubs.
- with a mop and bucket, trigger sprayer, sponge or by soaking.
- for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.
- to clean and disinfect nonporous salon / barber tools and instruments: combs, brushes, scissors, blades and manicure instruments.
- for sanitizing and disinfecting of ultrasound transducers, probes, mammography compressor plates and other hard nonporous surfaces.
- to clean and disinfect finished floors. Can be applied with damp mop or autoscrubber. Cleans and disinfects without dulling gloss.
- on coils and drain pans of air conditioning and refrigeration equipment and heat pumps. Follow the directions for sanitization of non-food contact surfaces.
- for Poultry Premise Sanitation (Hatcheries): Egg Receiving Area, Egg Holding Area; Setter Room, Tray Dumping Area, Trays, Buggies, Racks, Egg Flats, Chick Holding Room, Hatchery Room, Chick Processing Area, Chick Loading Area, Poultry Buildings, Ceilings, Sidewalls and Floors, Drinkers and other Poultry House related equipment, and all other hard, nonporous surfaces in the Hatchery environment.
- for Swine Premise Sanitation: Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and areas, Nursery blocks, Creep area, Chutes.
- for Farm Premise Sanitation of hard nonporous surfaces: floors, walls, feed racks, mangers, troughs, automatic feeders, fountains and waterers, forks, shovels, scrapers and other nonporous surfaces in barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals.

(Note to reviewer: The following is considered optional marketing language.)

**(AREAS OF USE:)**

Use **Lonza Formulation S-21F** in:

Bathrooms  
Homes (households)  
Kitchens

Dental offices  
Hospitals  
Medical Offices  
Nursing homes

Day care centers  
Nurseries

Bars  
Cafeterias  
Convenience stores  
Egg Processing plants  
Food processing plants  
Food preparation areas  
Food storage areas  
Institutional kitchens  
Restaurants  
USDA inspected food processing facilities

Athletic facilities  
Barber shops  
Business and office buildings  
Colleges  
Correctional facilities  
Dressing rooms  
Exercise facilities  
Factories  
Hotels  
Institutional facilities  
Institutions  
Locker rooms  
Motels  
Resort hotels  
Public facilities  
Public rest rooms  
Schools  
Shower and bath areas  
Salons (Beauty)

Camp grounds  
Play ground equipment

Animal laboratories  
Dairy farms  
Farms  
Hog farms  
Kennels  
Poultry farms  
Pet animal quarters  
Pet shops  
Turkey farms  
Zoos

Airplanes  
Boats  
Buses  
Campers  
Cars  
Emergency vehicles  
Mobile homes  
Ships  
Taxis  
Trailers  
Trains  
Transportation terminals

**(TYPES OF SURFACES:)**

Use **Lonza Formulation S-21F** on washable hard, nonporous surfaces of:

Appliances, Exteriors  
Bathroom fixtures  
Bathtubs  
Cabinets  
Cages  
Chairs  
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps  
Conductive flooring  
Counters (countertops)  
Countertop laminates  
Desks  
Doorknobs  
Exhaust fans  
Floors  
Foot Spas  
Garbage cans  
Highchairs  
Kennel runs  
Microwave ovens, Exteriors  
Outdoor furniture  
Refrigerators, Exteriors  
Refrigerated storage and display equipment  
(Fiberglass) Shower stalls  
(Fiberglass) Sinks (bathroom, kitchen)  
Sinks (bathroom, kitchen)  
Stoves (stovetops)

Tables, (picnic tables)  
Telephones  
Toilets  
Toilet bowls  
Toilet bowl surfaces  
Tubs (Fiberglass)  
Tiles, glazed  
Ultrasonic baths  
Urinals  
Walls  
Whirlpool bathtubs

Beer fermentation and holding tanks  
Blenders  
Bottling or premix dispensing equipment  
Chopping blocks, plastic and other nonporous  
Cooking utensils  
Coolers  
Cutlery  
Cutting Boards, plastic and other nonporous  
Dishes  
Eating Utensils  
Food processors  
Glassware  
Ice Chests  
Kitchen equipment  
Refrigerator bins used for meat, fruit, vegetables and eggs  
Silverware  
Slurpy Machines  
Tupperware®

Other hard nonporous surfaces made of:  
Formica®  
Glazed ceramic  
Glazed enameled surfaces  
Glazed porcelain  
Laminated surfaces  
Metal  
Plastic (such as polystyrene or polypropylene)  
Sealed stone  
Stainless steel  
Upholstery, vinyl and plastic  
Woodwork, finished

Note to reviewer: The following is considered optional marketing language.

Use Lonza Formulation S-21F

- as a commercial sanitizer on dishes, glassware, and utensils.
  - as a sanitizer in bottling and beverage dispensing equipment.
  - as a sanitizer in sanitary filling of bottles and cans.
  - in sanitizing bottles or cans in the final rinse application, and for external spraying of filler and closing machines.
  - as a sanitizer in beer fermentation and holding tanks.
  - as a Food-Grade Shell Egg sanitizer, with best results achieved in water temperatures ranging from 78°-110°F.
- LONZA FORMULATION S-21F may be applied through automatic washing systems, immersion tanks, foaming apparatus and low-pressure sprayers.

Lonza Formulation S-21F is a phosphate free, germicidal detergent effective in the presence of a moderate amount of organic soil on hard nonporous surfaces found at mushroom farms. Lonza Formulation S-21F has been designed for use between mushroom crops. Areas of intended use include breezeways and track alleys before spawning, inside and outside of mushroom houses, lofts, floors, storage sheds and casing bags. Use of Lonza Formulation S-21F should be limited to areas where compost and mushrooms are not present.

LONZA FORMULATION S-21F is a sanitizer for hard nonporous non-food contact surfaces at 1:256 dilution (200 ppm active, 2 oz. per 4 gallons of water) according to the method for Sanitizers - Non-Food Contact Surfaces, modified in the presence of 500 ppm hard water plus 5% organic serum in 60 seconds against:

Klebsiella pneumoniae      Staphylococcus aureus

LONZA FORMULATION S-21F eliminates 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds.

LONZA FORMULATION S-21F is effective against Citrus Canker Disease (Xanthomonas axonopodis pv. citri) at 2000-ppm active quat.

LONZA FORMULATION S-21F is effective against:

- Avian Infectious Bronchitis Virus
- Avian Influenza Virus
- Canine Distemper Virus
- Newcastle's Disease Virus
- Pseudorabies Virus

LONZA FORMULATION S-21F is a mildewstat at 1:64 dilution (2 oz. per gallon) and will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard nonporous surfaces.

(Note to reviewer: only one of the two use-dilution ranges will be used on a container label)

LONZA FORMULATION S-21F is an effective sanitizer for use on food contact surfaces at 2 oz. per 4 - 5 1/2 gallons of water (200 - 150 ppm active quat) (or) [2 oz. per 2 - 5 1/2 gallons of water (150 - 400 ppm active quat)] in waters up to 500 ppm hardness in 60 seconds against:

Campylobacter jejuni  
Escherichia coli

[Redacted]  
Staphylococcus aureus

LONZA FORMULATION S-21F is an effective sanitizer for use on food contact surfaces at [2 oz. per 4 gallons of water (200 active quat)] (or) [1 oz. per 1- 2 gallons of water (200 - 400 ppm active quat)] in waters up to 500 ppm hardness in 60 seconds against:

Campylobacter jejuni  
Escherichia coli  
ESBL Escherichia coli - (Extended spectrum beta-lactamase producing E. coli)

[Redacted]  
Shigella sonnei  
Staphylococcus aureus  
Vibrio cholerae  
Yersinia enterocolitica

LONZA FORMULATION S-21F is an effective sanitizer for use on food contact surfaces at [3/4 oz. per gallon of water (300 active quat)] (or) [1 oz. per 1 - 1 1/3 gallons of water (3/4 - 1 oz. per gallon of water) (400 - 300 ppm active quat)] in waters up to 500 ppm hardness in 60 seconds against:

Campylobacter jejuni  
Escherichia coli  
ESBL Escherichia coli - (Extended spectrum beta-lactamase producing E. coli)

[Redacted]  
Salmonella choleraesuis  
Shigella sonnei  
Staphylococcus aureus  
Vibrio cholerae  
Yersinia enterocolitica

Regular, effective cleaning and sanitizing of equipment, utensils, and work or dining surfaces which could harbor hazardous microorganisms minimizes the probability of contaminating food during preparation, storage or service. Effective cleaning will remove soil and prevent the accumulation of food residues, which may decompose or support the rapid development of food poisoning organisms or toxins. Application of effective sanitizing procedures reduces the number of those disease organisms which may be present on equipment and utensils after cleaning, and reduces the potential for the transfer, either directly through tableware such as glasses, cups and flatware or indirectly through food.

To prevent cross-contamination, kitchenware and food-contact surfaces of equipment 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 or production-line basis, utensils and the food-contact surfaces of equipment 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 amount of food particle accumulation.

Articles that can be immersed in solution must remain in solution for 60 seconds.

Articles or surfaces too large for immersing should be thoroughly wetted or flooded by rinsing, spraying or swabbing.

Allow all sanitized surfaces to drain thoroughly (and air dry).

**LONZA FORMULATION S-21F** fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinance 1999 Recommendations of the U.S. Public Health Services in waters up to 500 ppm of hardness calculated as CaCO<sub>3</sub> when evaluated by the AOAC Germicidal and Detergent Sanitizer Method.

(Note to reviewer: The following is considered optional marketing language.)

**LONZA FORMULATION S-21F** is a (one-step) (Hospital use) disinfectant at 1:64 dilution (2 oz. per gallon), Bactericidal according to the current AOAC Use-Dilution Test Method, Fungicidal according to the AOAC Fungicidal Test and Virucidal\* according to the virucidal qualification modified in the presence of 400 ppm hard water plus 5% organic serum against:

(Bacteria:)

- Pseudomonas aeruginosa (Pseudomonas)
- Staphylococcus aureus (Staph)
- Salmonella choleraesuis (Salmonella)
- Acinetobacter baumannii (Acinetobacter)
- Brevibacterium ammoniagenes (Brevibacterium)
- Campylobacter jejuni (Campylobacter)
- Enterobacter aerogenes
- Enterococcus faecalis (Enterococcus)
- Enterococcus faecalis - Vancomycin resistant (VRE)
- Escherichia coli (E. coli)
- ESBL Escherichia coli - (Extended spectrum beta-lactamase producing E. coli)
- Klebsiella pneumoniae (Klebsiella)
- Legionella pneumophila
- Pseudomonas cepacia (Pseudomonas)
- Salmonella schottmuelleri (Salmonella)
- Salmonella typhi (Salmonella)
- Serratia marcescens
- Shigella dysenteriae (Shigella)
- Staphylococcus aureus Methicillin-Resistant (MRSA)
- Staphylococcus aureus Multi-Drug Resistant
- Staphylococcus aureus - Vancomycin Intermediate Resistant - (VISA)
- Streptococcus pyogenes (Strep)
- Vibrio cholerae

(Viruses:)

- \*Adenovirus Type 5 (Adenovirus) at 1:16 dilution (8 oz. per gallon of water)
- \*Hepatitis B Virus (HBV)
- \*Hepatitis C Virus (HCV)
- \*Herpes Simplex Virus Type 1 (Herpes)
- \*Herpes Simplex Virus Type 2 (Herpes)
- \*HIV-1 (the AIDS Virus)
- \*Human Coronavirus
- \*Influenza Type A / Brazil (Influenza)
- \*Respiratory Syncytial Virus (RSV)
- \*Vaccinia (Pox Virus)

(Animal Viruses:)

- Avian Influenza virus
- Avian Infectious Bronchitis Virus
- Canine Distemper Virus
- Newcastle's Disease Virus
- Pseudorabies Virus

(Fungi:)

- Trichophyton mentagrophytes (the Athlete's Foot Fungus) (cause of Ringworm)
- Aspergillus niger

**Dilution:**

- Disinfection (1:64) ..... 2 oz. per gallon of water
- Sanitizer (1:128) ..... 4 oz. per 4 gallons of water  
 ..... (2 oz. per 2 gallons of water)  
 ..... (1 oz. per gallon of water)  
 ..... (400 ppm active)
- Sanitizer (1:171) ..... 3 oz. per 4 gallons of water  
 ..... (1 oz. per 1 1/3 gallons of water)  
 ..... (3/4 oz. per gallon of water)  
 ..... (300 ppm active)
- Sanitizer (1:256) ..... 2 oz. per 4 gallons of water  
 ..... (1 oz. per 2 gallons of water)  
 ..... (1/2 oz. per gallon of water)  
 ..... (200 ppm active)
- Sanitizer (1:352) ..... 2 oz. per 5 1/2 gallons of water  
 ..... (1 oz. per 2 3/4 gallons of water)  
 ..... (3/8 oz. per gallon of water)  
 ..... (150 ppm active)

**DIRECTIONS FOR USE**

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

More 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.

**Preparation of Disinfectant Use-Solution:**

Add (mix) 2 oz. per gallon of water (1:64).  
For heavy duty use, add (mix) 8 oz. per gallon of water (1:16).

**DISINFECTION / VIRUCIDAL\* / FUNGICIDAL / MOLD AND MILDEW CONTROL DIRECTIONS:**

Apply use-solution to hard, nonporous surfaces, thoroughly wetting the surfaces, with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is recommended.

For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from surface; rub with brush, sponge or cloth. Avoid breathing spray.

For fungicidal activity, Lonza Formulation S-21F is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

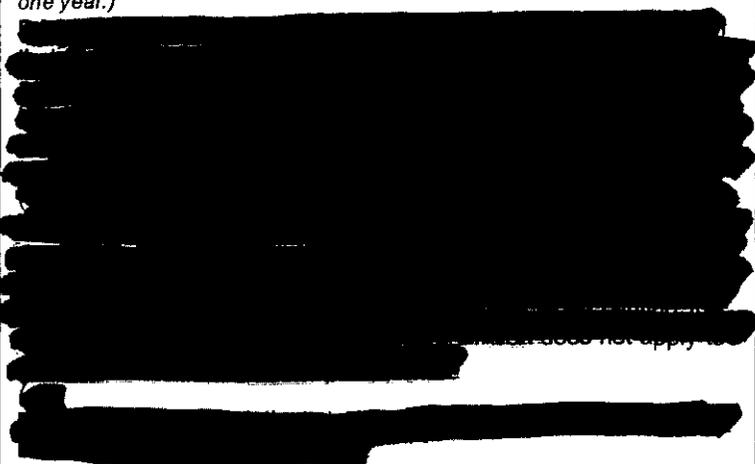
Lonza Formulation S-21F is a one-step fungicide at 2 oz. per gallon in 250 ppm hard water and 5% serum.

At 2 oz. per gallon in 400 ppm hard water, Lonza Formulation S-21F must be used on precleaned surfaces.

**For mold and mildew** Repeat treatment every seven days, or more often if new growth appears.

Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes as a disinfectant.

(Note to reviewer: Only ( ) of the following two statements will be used. Supplemental registrants will pick only one time frame for their label up to one year.)



(Note for reviewer: 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. (optional language:) This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

or  
This product is not for use on medical device surfaces.

**TO CLEAN AND DEODORIZE:** Mix 2 oz. per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

**NON-ACID TOILET BOWL AND URINAL DISINFECTANT / CLEANER DIRECTIONS:**

Remove gross filth prior to disinfection.

**From Concentrate:**

Add 2 oz. to the bowl. Thoroughly brush or swab over exposed surfaces and under the rim with a cloth, mop or sponge. Allow to stand for 10 minutes and flush.

**From Use Solution:**

Empty toilet bowl or urinal and apply a 2 oz. per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly, allow to stand for 10 minutes and flush.

**For Heavy Duty Use:**

Empty toilet bowl or urinal and apply an 8 oz. per gallon use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly, allow to stand for 10 minutes and flush.

**FOR USE ON FINISHED FLOORS:** To limit gloss reduction use LONZA FORMULATION S-21F at 2 oz. per gallon. Apply with a damp mop or autoscrubber. Allow surface to remain wet for 10 minutes. Wipe or allow to air dry. Do not use on floor finish at 8 oz. per gallon.

**SALON / BARBER INSTRUMENTS AND TOOLS  
DISINFECTION (BACTERICIDE) / VIRUCIDE / FUNGICIDE  
DIRECTIONS:**

Mix 4 oz. (120 mL) of LONZA FORMULATION S-21F per gallon of water (1 oz. [30 mL] of Lonza Formulation S-21F per quart of water) to disinfect hard, nonporous instruments and tools. Completely immerse combs, brushes, rollers, 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. Fresh solution should be prepared daily or more often if solution becomes diluted 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.

**ULTRASONIC BATH DISINFECTANT DIRECTIONS:**

Use LONZA FORMULATION S-21F to disinfect hard nonporous non-critical objects compatible with Ultrasonic cleaning units. Pour fresh use-solution of 2 oz. of Lonza Formulation S-21F per gallon of water directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturer's directions. Remove objects and wash with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use.

**DISINFECTION OF [WHIRLPOOL (BATH(S) (UNITS)) [FOOT SPAS]:**

After using the [whirlpool (bath) (unit)] [foot spa], drain and refill with fresh water to (just cover the intake valve) (cover the highest jet) (2 inches above the highest jet). Add 2 oz. of Lonza Formulation S-21F for each gallon of fresh water added. Start the pump to circulate the solution. Wash down [the (deck) (seat of chair lift) (any related equipment)] any uncovered surfaces on the (bath) (unit) (foot spa) with a clean swab, brush or sponge with the solution. Treated surfaces must remain wet for 10 minutes. After the (bath) (unit) (foot spa) has been thoroughly disinfected, drain and rinse surfaces with fresh water. Wipe dry with a clean sponge or cloth or allow to air dry. Repeat for heavily soiled units.

**SANITIZATION OF [WHIRLPOOL (BATH(S) (UNITS)) [FOOT SPAS]:**

After using the [whirlpool (bath) (unit)] [foot spa], drain and refill with fresh water to (just cover the intake valve) (cover the highest jet) (2 inches above the highest jet). Add 2 ounce of Lonza Formulation S-21F for each 2 - 4 gallons of fresh water added. Start the pump to circulate the solution. Wash down the [(deck) (seat of chair lift) (any related equipment) and] any uncovered surfaces on the (bath) (unit) (foot spa) with a clean swab, brush or sponge with the solution. Treated surfaces must remain wet for at least 60 seconds. Drain bath and wipe dry with a clean sponge or cloth or allow to air dry.

**\*KILLS HIV AND HCV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces / objects with blood or body fluids, and in which the surfaces / objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 OR HBV OR HVC ON SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS.**

**PERSONAL PROTECTION:** Clean up should always be done wearing protective gloves, gowns, masks and eye protection.

**CLEANING PROCEDURE:** Blood and other body fluids containing HIV-1 or HBV or HVC must be thoroughly cleaned from surfaces and objects before application of LONZA FORMULATION S-21F.

**CONTACT TIME:** Leave surface wet for 1 minute (60 seconds) for HIV-1 and 10 minutes for HBV and HCV with a 2 oz. per gallon use-solution. Use a 10-minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

**DISPOSAL OF INFECTIOUS MATERIAL:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**TO SANITIZE NON-FOOD CONTACT SURFACES:**

Add (mix) 2 oz. of Lonza formulation S-21F per 4 gallons of water (1/2 oz. of Lonza Formulation S-21F per gallon of water) to sanitize hard nonporous surfaces. Treated surfaces must remain wet for 60 seconds. Wipe dry with a sponge, mop or cloth or allow to air dry.

**TO SANITIZE BARBER / SALON INSTRUMENTS AND TOOLS:**

Immerse precleaned barber / salon instruments and tools (such as combs, brushes, razors, scissors, blades and manicure instruments) in a use-solution of 2 oz. of Lonza Formulation S-21F 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 diluted, 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.

**VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION DIRECTIONS:**

For cleaning and disinfecting hard nonporous surfaces: equipment used for animal food or water, utensils, instruments, cages, kennels, stables, 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. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 oz. of LONZA FORMULATION S-21F per gallon of water (or equivalent dilution) for a period of 10 minutes. Wipe or allow to air dry. 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. Rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

**FARM PREMISE USE:**

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. Saturate all surfaces with a use-solution of 2 oz. of LONZA FORMULATION S-21F per gallon of water (or equivalent dilution) 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 buildings, cars, trucks, 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.

**POULTRY AND SWINE PREMISE DISINFECTION DIRECTIONS:**

Remove all animals and feeds from premises, vehicles, and enclosures such as coops and crates. Remove all litter, droppings 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. Use 2 oz. of LONZA FORMULATION S-21F per gallon of water. Saturate surfaces with the recommended disinfecting solution for 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 buildings, cars, trucks, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**Hatcheries:** Use 2 oz. of LONZA FORMULATION S-21F per gallon of water to treat the following hard nonporous surfaces: hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

**FOGGING DEVICE HATCHERY ROOM SANITIZER DIRECTIONS:**

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 soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Use LONZA FORMULATION S-21F undiluted. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, for one minute for each 4000 cubic feet of space in the room. **Do not allow people to contact or breathe this fog and do not enter until the fog has settled (30 - 60 minutes after fogging is completed).**

**FOGGING DEVICE INCUBATOR AND HATCHER SANITIZER DIRECTIONS:**

Mix 48 ounces LONZA FORMULATION S-21F to 80 ounces water (or equivalent dilution). Fog 3 - 8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatchers treatments at least 24 hours prior to pulling the hatch. It is acceptable to fog setters and hatchers with a 4 ounce per gallon (or equivalent dilution) solution of LONZA FORMULATION S-21F 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 completed, 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 and waterers with soap or detergent, and rinse with potable water before reuse. **Do not allow people to contact or breathe this fog and do not enter until the fog has settled (30 - 60 minutes after fogging is completed).**

**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 until the fog has settled (30-60 minutes after fogging is completed). If the building must be entered, then the individuals entering the building must wear a self contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

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

**Vehicles:** Treat all vehicles including mats, crates, cabs and wheels with water and LONZA FORMULATION S-21F. Use 2 oz. of LONZA FORMULATION S-21F per gallon of water to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

**Shoe Bath Sanitizer Directions:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots and place in a 2 oz. per 4 gallons of water solution for 60 seconds prior to entering area. Change the solution in the bath daily or more often if solution appears diluted or soiled.

**SHOE FOAM DIRECTIONS:**

To prevent tracking harmful organisms into animal areas, and the packaging and storage areas of food plants. Apply a foam layer approximately 1/2 to 2 inches thick made from a solution of 2 oz. of **LONZA FORMULATION S-21F** per 2 - 5 1/2 gallons of water (400 - 150 ppm active quat) (or equivalent dilution), at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply the foam layer. Follow the foaming directions as specified by the manufacturer of the foam generator or aerator. Scrape waterproof work boots (shoes). Stand or walk through foamed area for 60 seconds prior to entering area. Wash and replace Foam Area at least daily or more often if the Foam Area appears diluted or soiled.

**Passing Plant Disinfectant Directions:** Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all heavy soils prior to application. Saturate all surfaces with a 2 oz. of Lonza Formulation S-21F per gallon of water solution. Scrub to loosen all soils. Surfaces must remain wet for 10 minutes, then thoroughly rinsed with potable water before operations are resumed.

**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 cleaning and disinfection, use 2 oz. of **Lonza Formulation S-21F** per gallon of water (or equivalent dilution). Apply use solution with a cloth, mop, sponge, sprayer or by immersion to thoroughly wet the surfaces. Treated surfaces should be allowed to remain wet for 10 minutes. Wipe or allow to air dry. For heavily soiled areas, preclean first. Prepare a fresh solution for each use or more often if solution becomes visibly diluted, clouded or soiled.

**For Heavy Duty Cleaning:** When greater cleaning is desired, use 8 oz. of **Lonza Formulation S-21F** per gallon of water. Heavily soiled areas may require repeated cleaning before treatment.

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

**CITRUS CANKER DISEASE CONTROL:**

For prevention of Citrus Canker Disease through treatment of precleaned equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker Disease) at 2000 ppm active quat. Treatments can be applied to trucks, attached trailers, field harvesting equipment including cargo area, wheels, tires, undercarriage, hood, roof, fenders, and any other hard nonporous part of the equipment that can be taken into infested areas.

Thoroughly clean all surfaces with soap or detergent and rinse with water. Then saturate surfaces with a 1:27.5 use-dilution (4 3/4 oz. of Lonza Formulation S-21F per gallon of water or 19 oz. of Lonza Formulation S-21F per 4 gallons of water) (or equivalent dilution) (2000 ppm active quat) for a period of 10 minutes. Allow to air dry. All surfaces that come in contact with food or crop must be rinsed with potable water before reuse. To prevent the spread of Citrus Canker Disease by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing. Clothing should be either rinsed or laundered before reuse. Footwear should be rinsed before reuse.

(Note to reviewer. On a final printed label, only one of the following dilution rates will be used in the sanitization sections below

- 2 oz. Lonza Formulation S-21F per 4 – 5 1/2 gallons of water (200 – 150 ppm active quat) (or equivalent dilution)  
(or)
- 2 oz. Lonza Formulation S-21F per 2 – 5 1/2 gallons of water (400 – 150 ppm active quat) (or equivalent dilution)  
or
- 2 oz. Lonza Formulation S-21F per 4 gallons of water (200 active quat) (or equivalent dilution)  
(or)
- 2 oz. Lonza Formulation S-21F per 2 – 4 gallons of water (400 – 200 ppm active quat) (or equivalent dilution)  
or
- 3 oz. Lonza Formulation S-21F per 4 gallons of water (300 active quat) (or equivalent dilution)  
(or)
- 2 oz. Lonza Formulation S-21F per 2 – 2 3/4 gallons of water (400 – 300 ppm active quat) (or equivalent dilution)

**SANITIZE FOOD CONTACT SURFACES:**

**TO SANITIZE FOOD PROCESSING EQUIPMENT AND OTHER HARD SURFACES IN FOOD PROCESSING LOCATIONS, DAIRIES, RESTAURANTS AND BARS:**

Use Lonza Formulation S-21F to sanitize hard nonporous surfaces of food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard surfaces.

Prior to application, remove gross food particles and soil by a pre-flush, or pre-scrape and, when necessary, pre-soak. Then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution.

Apply a use-solution of [insert appropriate dilution here] (or equivalent dilution) to pre-cleaned hard surfaces thoroughly wetting surfaces with a cloth, mop, sponge, coarse sprayer or by immersion. Surfaces must remain wet for at least 60 seconds (one minute) followed by adequate draining and air drying. Do not rinse. Prepare a fresh solution for each use. For mechanical application, use-solution may not be reused for sanitizing applications but may be reused for other purposes such as cleaning.

Apply to sink tops, countertops, refrigerated storage and display equipment and other stationary hard nonporous surfaces by cloth, sponge or brush or coarse spray.

Sanitize dishes, silverware, glasses, cooking utensils and other similar size food processing equipment by immersion.

**TO SANITIZE BEVERAGE DISPENSING EQUIPMENT:**

1. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
2. Fill equipment with a solution of [insert appropriate dilution here] (or equivalent dilution).
3. Allow solution to remain in equipment for at least 60 seconds.
4. Drain thoroughly before reuse and allow to air dry.

**TO SANITIZE SANITARY FILLING EQUIPMENT:**

Wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a use-solution of [insert appropriate dilution here] (or equivalent dilution) for final washer and rinsing applications. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse and allow to air dry.

**TO SANITIZE BEER FERMENTATION AND STORAGE TANKS:**

Wash surfaces with a compatible detergent and rinse with potable water prior to sanitizing. Prepare a use-solution of [insert appropriate dilution here] (or equivalent dilution) for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly and allow to air dry before reuse.

**TO SANITIZE EGG SHELLS INTENDED FOR FOOD:**

To sanitize previously cleaned food-grade eggs in shell egg and egg product processing plants, spray with a use-solution of [insert appropriate dilution here] (or equivalent dilution). The solution must be equal to or warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with this product shall be subjected to a thorough potable water rinse only if they are to be broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. The solution must not be re-used for sanitizing eggs.

**Note:** Only clean, whole eggs can be used for sanitizing. Dirty, cracked or punctured eggs cannot be sanitized.

Lonza Formulation S-21F can be used in accordance with the U.S. Public Health Service food service sanitization recommendations.

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

**CLEANING AND SANITIZING:** Equipment and utensils shall 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 clean water.
3. Sanitize equipment and utensils by immersion in a use solution of [insert appropriate dilution here] (or equivalent dilution) 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 [insert appropriate dilution here] (or equivalent dilution) by rinsing, spraying or swabbing until thoroughly wet.
5. Allow sanitized surface to drain and air dry. Do not rinse.

**WISCONSIN STATE BOARD 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 use-solution of *[insert appropriate dilution here]* (or equivalent dilution). 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

**TO SANITIZE BEVERAGE DISPENSING EQUIPMENT:**

1. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
2. Fill equipment with a solution of *[insert appropriate dilution here]* (or equivalent dilution).
3. Allow solution to remain in equipment for at least 60 seconds.
4. Drain thoroughly and allow to air dry before reuse.

*(Note to reviewer: If container is one gallon or less, the following Storage and Disposal statements will be used:)*

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Discard in trash or recycle.

*(Note to reviewer: If container is greater than one gallon, the following Storage and Disposal statements will be used:)*

**STORAGE AND DISPOSAL**

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

**Pesticide Storage**

Do not store on side. Avoid creasing or impacting of side walls.

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture of 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**

*(Plastic containers):* Triple rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*(Metal Containers):* Triple rinse (or equivalent), then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.