

6836-139

10/29/2008

1 of 33



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OCT 29 2008

Ms. Georgia Anastasiou  
Lewis & Harrison  
122 C Street, NW  
Suite 740  
Washington, DC 20001

Subject: Lonza Formulation R-82F  
EPA Registration No.: 6836-139  
Amendment Date: September 29, 2008  
EPA Receipt Date: September 29, 2008

Dear Ms. Anastasiou,

This letter acknowledges receipt of your notification submitted under the provisions of FIFRA section 3(c)9 and PR Notice 98-10.

- Distinguish ppm level per organism

**General Comments**

Based on a review of the submitted materials, the notification to distinguish ppm levels is acceptable and apart of the records on file.

Should you have any questions regarding this letter, please contact Jacqueline McFarlane at (703) 308-6416 or Velma Noble (703) 308-6233.

Sincerely,

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

**CONCURRENCES**

SYMBOL	DATE	INITIALS	REMARKS	DATE	INITIALS	REMARKS	DATE	INITIALS	REMARKS





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*(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 R-82F:**

- 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 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 40 CFR §180.940 (a) for use on Food-contact surfaces in public eating places, dairy-processing equipment, food processing equipment, utensils and other food-contact articles.

Cross-contamination is of major housekeeping concern. **LONZA FORMULATION R-82F** has been formulated to aid in the reduction of cross-contamination not only in hospitals, but in schools, institutions and industry.

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

**Use Lonza Formulation R-82F**

- 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.
- to clean and disinfect nonporous fire fighting bunker / turnout gear; trousers; overcoats, gloves, boots, hoods, helmets, air masks.
- to clean, sanitize and disinfect nonporous personal protective safety equipment: protective headgear, hard hats, half-mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Caution: Cleaning at 120°F temperature will avoid overheating and distortion of the personal safety equipment which would necessitate replacement).
- 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.)**

**Lonza Formulation R-82F** is effective at controlling mold and mildew odor on mattresses, pillows and shower curtains.

**Use Lonza Formulation R-82F** in the laundry to control odors on musty bedding and linens. Test on a small inconspicuous area before using.

**Use Lonza Formulation R-82F** on mildew stains in damp areas such as bathrooms, showers, kitchens, basements and laundry rooms.

**Use Lonza Formulation R-82F** in work areas such as tool rooms and garages for odor control and light duty cleaning.

**Use Lonza Formulation R-82F** to remove odors caused by flooding and smoke from fires.

**Lonza Formulation R-82F** leaves a clean fresh scent.

**Lonza Formulation R-82F** provides long lasting freshness against tough (pet) odors such as odors from litter boxes and pet accidents.

**Lonza Formulation R-82F** (Kills) (Eliminates) (Removes) (Destroys) avian influenza A (H3N2) (and) (H5N1) on pre-cleaned environmental surfaces

**Lonza Formulation R-82F** (Kills) (Eliminates) (Removes) (Destroys) *[Insert pathogen or pathogens from lists on pages 9-10]* on (pre-cleaned) environmental surfaces

**Lonza Formulation R-82F** (Kills) (Eliminates) (Removes) (Destroys) (Germs) (Bacteria) (Viruses\*) (on (pre-cleaned) environmental surfaces)

Use [on] [to clean and disinfect] nonporous athletic mats, wrestling mats, gymnastic mats, exercise equipment and training tables.

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

**(AREAS OF USE:)**

Use Lonza Formulation R-82F in:

Bathrooms	Prisons
Homes [Households]	Public facilities
Kitchens	Public rest rooms,
	Schools
Clinics	Shower and bath areas
Dental offices	Salons [Beauty] [Tanning]
Health Care Facilities	
Hospitals	Camp grounds
Medical Offices	Play ground equipment
Medical Related facilities	
Nursing homes	Animal laboratories
Sick Rooms	Dairy farms
Day care centers	Farms
Nurseries	Hog farms
	Kennels
Bars	Mushroom Farms
Cafeterias	Poultry farms
Convenience stores	Pet animal quarters
Food Preparation Areas	Pet shops
Food processing plants	Turkey farms
Food storage areas	Zoos
Institutional kitchens	
Restaurants [Front of House]	Airplanes
USDA inspected food processing facilities	Airports
	Ambulances
Athletic facilities	Boats
Barber shops	Buses
Business and office buildings	Campers
Colleges	Cars
Correctional facilities	Emergency (Police) (EMS) (Fire)
Dressing rooms	(Rescue) vehicles
Exercise facilities	Mobile homes
Factories	Ships
Hotels	Taxis
Institutional facilities	Trailers
Institutions	Trains
Locker rooms	Transportation terminals
Motels	

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

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**(TYPES OF SURFACES:)**

Use Lonza Formulation R-82F on washable hard, nonporous surfaces of:

Appliances, exteriors	Toilet bowls
Bathroom fixtures	Toilet bowl surfaces
Bathtubs [fiberglass]	Tubs [Fiberglass]
Cabinets	Tiles, glazed
Cages	Ultrasonic baths
Chairs	Urinals
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps	Walls
	Whirlpool [bathtubs] [tubs] [units]
Conductive flooring	
Counters [Countertops]	Beer fermentation and holding tanks
Countertop laminates	Beverage dispensing equipment
Desks	Blenders
Doorknobs	Bottling or premix dispensing equipment
Floors	Chopping blocks, plastic and other nonporous
Foot Spas	Cooking utensils
Garbage cans	Coolers
Highchairs	Cutlery
Kennel runs	Cutting Boards, plastic and other nonporous
Microwave ovens, exteriors	Dishes
Outdoor [patio] furniture except cushions and wood frames	Eating Utensils
	Food processors
Refrigerators, exteriors	Food dispensing equipment
Refrigerated storage and display equipment	Frozen Drink Machines
Showers	Glassware
Shower stalls	Ice Chests
[Fiberglass] Shower stalls	Ice cream dispensing equipment [Soft Serve]
[Fiberglass] Sinks [bathroom] [kitchen]	Ice Machines
Sinks [bathroom] [kitchen]	Plastic Food Storage Containers
Stoves [stovetops]	Kitchen equipment
Tables, [Non-wooden picnic tables]	Refrigerator bins used for meat, fruit, vegetables and eggs
Telephones	
Toilets	Silverware



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

**(TYPES OF SURFACES:)**

Use **Lonza Formulation R-82F** on washable hard, nonporous surfaces of:

Non-critical [hospital] [medical] equipment surfaces:
Beds [Medical] [Hospital]
Bed frames
Bed rails
Crutches
Defibrillators
Gurneys
[Medical] Examining tables
[Medical] [Hospital] Lamps
Rescue tools
Resuscitators
[Medical] [Hospital] Scales
Stands
Stretchers
Stethoscopes
Walkers
Wheel chairs
Other hard nonporous surfaces made of:
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 R-82F**

- 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 R-82F** may be applied through automatic washing systems, immersion tanks, foaming apparatus and low-pressure sprayers.

**Lonza Formulation R-82F** 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 R-82F** has been designed for use between mushroom crops. Areas of intended use include breezeways and track alleys before spawning, inside and outside walls of mushroom houses, lofts, floors, storage sheds and casing rings. Use of **Lonza Formulation R-82F** must be limited to areas where compost and mushrooms are not present.

**LONZA FORMULATION R-82F** is a sanitizer for hard nonporous non-food contact surfaces 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 R-82F** eliminates 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds.

**LONZA FORMULATION R-82F** is effective against Citrus Canker Disease (Xanthomonas axonopodis pv. citri) at 2000-ppm active quat.

**LONZA FORMULATION R-82F** is a mildewstat 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. The following may be used only if the supplemental registrant has obtained an NSF listing. Allowed on back or side panel only.)



(NSF Listed)  
(Insert Category code here)  
(Insert 6-Digit NSF Listing Number here)

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

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

**(Note to reviewer: one or more of the following will be used depending on the use dilution selected.)**

**LONZA FORMULATION R-82F** is an effective sanitizer for use on (pre-cleaned) food contact surfaces at 150 – 200 ppm in waters up to 500 ppm hardness in 60 seconds against:

- Campylobacter jejuni
- Escherichia coli
- Staphylococcus aureus

**LONZA FORMULATION R-82F** is an effective sanitizer for use on (pre-cleaned) food contact surfaces at 200 - 300 ppm 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)
- Shigella sonneii
- Staphylococcus aureus
- Vibrio cholerae
- Yersinia enterocolitica

**LONZA FORMULATION R-82F** is an effective sanitizer for use on (pre-cleaned) food contact surfaces at 300 - 400 ppm 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)
- Salmonella enterica
- Shigella sonneii
- Staphylococcus aureus
- Vibrio cholerae
- Yersinia enterocolitica

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

Regular, effective cleaning and sanitizing of equipment, utensils, and work or dining surfaces which could harbor food poisoning 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 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 must be thoroughly wetted or flooded by rinsing, spraying or swabbing.

Allow all sanitized surfaces to drain thoroughly [and air dry].

**LONZA FORMULATION R-82F** fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinances 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 R-82F** is a [one-step] [Hospital Use] disinfectant Bactericidal according to the current AOAC Use-Dilution Test Method and Virucidal\* according to the virucidal qualification modified in the presence of 400 ppm hard water plus 5% organic serum against:

(or)

**LONZA FORMULATION R-82F** is effective against:

[Bacteria:]

*Pseudomonas aeruginosa* [Pseudomonas]

*Staphylococcus aureus* [Staph]

*Salmonella enterica* [Salmonella]

*Acinetobacter baumannii*

*Brevibacterium ammoniagenes* [Brevibacterium]

*Campylobacter jejuni*

Community Associated Methicillin-Resistant *Staphylococcus aureus* - [CA-MRSA] (NRS384) (USA300)

Community Associated Methicillin-Resistant *Staphylococcus aureus* - [CA-MRSA] (NRS123) (USA400)

*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* [Serratia]

*Shigella dysenteriae* [Shigella]

*Staphylococcus aureus* - Methicillin-Resistant [MRSA]

*Staphylococcus aureus* - Multi-Drug Resistant

*Staphylococcus aureus*-Vancomycin Intermediate Resistant – [VISA]

*Streptococcus pyogenes* [Strep] [a cause of scarlet fever]

*Vibrio cholerae*

(Continued from previous page)

[Viruses:]

- \*Adenovirus Type 5 at 1:64 dilution (2 oz. per gallon of water)
- \*Adenovirus Type 7 at 1:64 dilution (2 oz. per gallon of water)
- \*Hepatitis B Virus [HBV]
- \*Hepatitis C Virus [HCV]
- \*Herpes Simplex Virus Type 1
- \*Herpes Simplex Virus Type 2
- \*HIV-1 [AIDS Virus]
- \*Human Coronavirus
- \*Influenza Type A / Brazil [Influenza]
- \*Norwalk Virus [Norovirus]
- \*Respiratory Syncytial Virus [RSV]
- \*Rotavirus
- \*SARS Associated Coronavirus [SARS] [cause of Severe Acute Respiratory Syndrome]
- \*Vaccinia [Pox Virus]

[Fungi:]

- Trichophyton mentagrophytes [the Athlete's Foot Fungus] [A cause of Ringworm of the foot]
- Aspergillus niger

[Animal Viruses]:

- Avian Infectious Bronchitis Virus
- Avian Influenza (virus) (H3N2)
- Avian Influenza (virus) (H5N1)
- Canine Distemper Virus
- Feline Calicivirus
- Newcastle's Disease Virus
- Pseudorabies Virus

150233

**DIRECTIONS FOR USE**

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

**Dilution:**

Disinfection (1:256).....	1/2 oz. per gallon of water
Disinfection (1:128).....	1 oz. per gallon of water
Disinfection (1:64).....	2 oz. per gallon of water
Sanitizer (1:512) .....	1 oz. per 4 gallons of water
.....	[400 ppm active]
Sanitizer (1:723) .....	1 oz. per 5 1/2 gallons of water
.....	[300 ppm active]
Sanitizer (1:1024) .....	1/2 oz. per 4 gallons of water
.....	[200 ppm active]
Sanitizer (1:1446) .....	1/2 oz. per 5 1/2 gallons of water
.....	[150 ppm active]

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected.

**Preparation of Disinfectant Use-Solution:**

(Add) (Mix) [1/2 oz. per gallon of water [1:256]] or [1/2 - 1 oz. per gallon of water] or [1/2 - 2 oz. per gallon of water]. For heavy duty use, [add] [mix] 2 oz. per gallon of water [1:64].

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

Apply use-solution to hard, nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. Use 2 oz per gallon of water to kill Adenovirus Type 5 and type 7. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from the surface, rub with a brush, sponge or cloth. Do not breathe spray.

**For fungicidal activity,** Lonza Formulation R-82F 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 R-82F is a one-step fungicide at 1/2 oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] per gallon in 250 ppm hard water and 5% serum.

At 1/2 oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] per gallon in 400 ppm hard water, Lonza Formulation R-82F must be used on precleaned surfaces.

**For mold and mildew** At 1/2 oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] per gallon, LONZA FORMULATION R-82F will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow disinfection instructions. 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.

160233

(Note to reviewer: **ONE OF** the following two statements will be used:)

Prepare a fresh solution daily or more often if the solution becomes visibly dirty or diluted.

(or)

**BACTERICIDAL STABILITY OF USE-DILUTION:** Tests confirm that Lonza Formulation R-82F, when diluted in [water up to 400 ppm of hardness] [soft water] [via use of automatic dispensing devices], remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella enterica* for [up to 7 days] [[up to one week] [for up to one month] [up to 2 months] [up to 3 months] [to 4 months] [to 5 months] [up to 6 months] [up to 7 months] [up to 8 months] [up to 9 months] [up to 10 months] [up to 11 months] [up to 12 months] [up to one year] [up to two years] when stored in a sealed container such as a spray bottle. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

(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 preclean 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.

**FOR USE ON FINISHED FLOORS:** To limit gloss reduction use **LONZA FORMULATION R-82F** at ½ oz. or [1/2 - 1 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 2 oz. per gallon.



17 of 33

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

Remove gross filth prior to disinfection.

**From Concentrate:**

Add [1/2 oz.] or [1/2 - 1 oz.] or [1/2 - 2 oz.] to the bowl and mix. Brush over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

**From Use Solution:**

Empty toilet bowl or urinal and apply 1/2 oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or mechanical spray. Brush or swab thoroughly, allow to stand for 10 minutes and flush.

**For Heavy Duty Use:**

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

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

Mix 1 oz. [30 ml] or [1 - 2 oz. [30 - 60ml]] of **LONZA FORMULATION R-82F** per gallon of water [1/4 oz. [7.5 ml] or [1/4 - 1/2 oz. [7.5 - 15 ml]] of **LONZA FORMULATION R-82F** per quart of water] to disinfect hard nonporous instruments and tools. Completely immerse combs, brushes, plastic rollers, manicure and other salon instruments and tools for 10 minutes. Use 2 oz per gallon of water to kill Adenovirus Type 5 and type 7. For heavily soiled instruments and tools, a preliminary cleaning is required. Rinse thoroughly and dry before use. Fresh solution must 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 [ / VIRUCIDAL\*] DIRECTIONS:**

Use **LONZA FORMULATION R-82F** to disinfect hard nonporous, non-critical objects compatible with Ultrasonic cleaning units. Pour fresh use-solution of 1/2 oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] per gallon of water [1:256] directly into bath chamber. Use 2 oz per gallon of water to kill Adenovirus Type 5 and type 7. Preclean 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))]:**

After using the [whirlpool [bath] [unit]], drain and refill with fresh water to [just cover the intake valve] [cover the highest jet] [2 inches above the highest jet]. Add 1/2 oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] of **Lonza Formulation R-82F** 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]] [and] any uncovered surfaces on the [bath] [unit] with a clean swab, brush or sponge with the solution. Treated surfaces must remain wet for 10 minutes. After the [bath] [unit] 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.

**WHIRLPOOL FOOT SPA DISINFECTION:**

18023

After using whirlpool foot spa, drain the water. Use ½ oz of product per gallon of water (2 oz per gallon of water to kill Adenovirus Type 5 and 7) to cover intake valve or 2 inches above highest jet. Start pump to circulate the solution. Swab exposed surfaces including unit sides, chair, and any related equipment thoroughly with cloth, sponge, or brush and allow treated surfaces and solution to stand for 10 minutes. After unit has been thoroughly disinfected, rinse all disinfected surfaces with fresh water.

**\*KILLS HIV AND HBV 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 HCV ON SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS.**

**Personal protection:** Clean-up must always be done wearing protective gloves, gowns, masks and eye protection.

**Cleaning procedure:** Blood and other body fluids containing HIV or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of **LONZA FORMULATION R-82F**.

**Contact time:** Leave surface wet for 1 minute [60 seconds] for HIV-1 and 10 minutes for HBV and HCV with ½ oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] per gallon use-solution. Use a 10-minute contact time for disinfection against all other viruses, bacteria and fungi claimed. Use 2 oz per gallon of water to kill Adenovirus Type 5 and type 7.

**Disposal of infectious material:** Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to local regulations for infectious waste disposal.

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

After using the [whirlpool (bath) (unit)], drain and refill with fresh water to (just cover the intake valve) (cover the highest jet) (2 inches above the highest jet). Add ½ ounce of **Lonza Formulation R-82F** 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) 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.

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

[Add] [Mix] ½ oz. of Lonza Formulation R-82F per 4 gallons 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.

*(Note to reviewer: If this product is to be used as a sanitizer solely on non-food contact surfaces, the following statement must be included:)*

Do not use in food preparation, food handling and food storage areas. This product is not to be used on glassware, dishware, cookware or utensils.

**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 ½ oz. of Lonza Formulation R-82F 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.

200833

**VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION [ / VIRUCIDAL\*] DIRECTIONS:**

For cleaning and disinfecting hard nonporous surfaces: equipment used for feeding or watering animals, 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 ½ oz. of **LONZA FORMULATION R-82F** 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 ½ oz. of **LONZA FORMULATION R-82F** 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, 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.

*[Animal Viruses]:*

- Avian Infectious Bronchitis Virus
- Avian Influenza (virus) (H3N2)
- Avian Influenza (virus) (H5N1)
- Canine Distemper Virus
- Feline Calicivirus
- Newcastle's Disease Virus
- Pseudorabies Virus

2/08/33

**POULTRY AND SWINE PREMISE DISINFECTION**

**[/ VIRUCIDAL\*] 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 1/2 oz. of **LONZA FORMULATION R-82F** per gallon of water. Saturate surfaces with the 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, coops and other closed spaces. Do not house animals 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.

**HATCHERIES:** Use 1/2 oz. of **LONZA FORMULATION R-82F** per gallon of water to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard nonporous 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 / FOGGING DEVICE INCUBATOR AND HATCHER 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. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus.

[For Hatchery Room: Mix two parts of product to five parts water (1/2 gallon to 2.5 gallons of water). Insert nozzle of fogger through suitable opening to room. With the setting in maximum output, for one minute for each 4000 cubic feet of space in the room.]

[For Incubator and Hatcher: Mix 6 oz per 122 oz of water. Fog 3-8 oz into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatchers treatment at least 24 hours prior to pulling the hatch. It is acceptable to fog setters and hatchers with 1/2 oz per gallon on an hourly or every other hourly basis. If this solution is used, fog for 30-90 seconds once per hour or once every 2 hours.]

When fogging is completed, ventilate buildings, and other closed spaces. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. Do not allow people to contact or breathe this fog. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, and rinse with potable water before reuse.

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

22033

**VEHICLES:** Treat all vehicles including mats, crates, cabs and wheels with water and **LONZA FORMULATION R-82F**. Use ½ oz. of **LONZA FORMULATION R-82F** 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 cross contamination into animal areas, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots and place in a ½ oz. per 4 gallons of water use-solution for 60 seconds prior to entering area. Change the solution in the bath daily or when solution appears diluted or soiled.

**SHOE FOAM SANITIZER DIRECTIONS:**

To prevent cross contamination into animal areas, and the packaging and storage areas of food plants. Apply a foam layer approximately ½ to 2 inches thick made from a solution of ½ oz. of **LONZA FORMULATION R-82F** per 2 – 5 ½ 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.

**DRESSING 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 ½ oz. 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 must 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 ½ oz. of **Lonza Formulation R-82F** 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 must 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 1 oz. of **Lonza Formulation R-82F** 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.

230123

**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, and field harvesting equipment including cargo area, wheels, tires, undercarriage, hood, roof, fenders, and any other part of the transportation equipment that can be taken into infested areas.

Thoroughly clean all hard nonporous surfaces with soap or detergent and rinse with water. Then saturate surfaces with a 1:109 use-dilution. [1.2 oz. of Lonza Formulation R-82F per gallon of water] [or] [6 oz. of Lonza Formulation R-82F per 5 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 must be either rinsed or laundered before reuse. Footwear must be rinsed before reuse.

24 of 33

**Lonza Formulation R-82F** is effective at eliminating odors on porous surfaces such as upholstery, drapes, carpets, bedding, shower curtains, mattresses and non-porous surfaces such as walls and floors. Excellent for fire restoration.

Other suggested Uses: Homes, Veterinary Clinics, Fish Markets, Kennels, Trash Compactors, Offices, Beauty Salons, Locker Rooms, Health Spas, Conference rooms, Elevators, Smoking Areas, Lounges, Day Care Centers, Dry Cleaners, Theaters, Farms, Auditoriums and Churches.

**TO CLEAN AND DEODORIZE:** Mix ½ oz. or [1/2 - 1 oz.] or [1/2 - 2 oz.] of Lonza Formulation R-82F per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

**Deodorizing directions:**

**Nursing Homes, Hospitals, Hotels, Schools, Restaurants:** ½ - 1 oz. in chemical toilets, waste receptacles, bed pans, drainage bottles, diaper pails, hampers, disposals, commodes and air conditioner pans will eliminate odors.

**Mopping Solutions, Automatic Scrubbers:** ½ - 1 oz. per gallon of cleaning solution eliminates undesirable odors.

**Laundry:** ½ oz. per load added during the final rinse cycle deodorizes all offensive odors.

**Air Freshener/Automotive Uses:** 2 ounces per gallon of water or desired concentration will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets and bathrooms. Effective on smoking and cooking odors (garlic, fish, onions, etc.). Automobile odors from tobacco, musty carpet smell and beverage smells will be eliminated.

**Carpets:** ½ - 1 oz. per gallon of shampoo solution eliminates odors associated with urine, vomit, smoke, and mildew. Reapply after cleaning for freshening effects. Allow to dry.

**RV Holding Tanks:** Toilet waste: cover bottom of holding tank with water and add ½ - 1 oz. If odors return before time to empty, simply add ½ - 1 oz. to the tank. Kitchen waste: ½ - 1 oz. of Lonza **Formulation R-82F** to gray water tank as needed to control malodors created by dirty dish water.

**Pet Odors:** Use 2 - 3 oz. per gallon of water or desired concentration, for urine, feces, and vomit, in carpet and upholstery. Clean prior to application then spray onto affected areas. Test hidden area for colorfastness. Allow 10 minutes contact time. Then blot with clean cloth. Allow to dry. Also effective on pet bedding and litter boxes.



25033

**Sewage Backup, Water Damage:** 1 – 2 oz. per gallon of water or desired concentration. Spray over affected areas before and after cleaning and extraction. Allow ten minutes contact time. Use proper ventilation; open windows.

**Cleaning Solution:** Dilute ½ - 1 oz. per gallon of water for cleaning of kitchen counters, tables, walls, bathrooms, toilet seats, mopping floors and large routine applications.

**WATER DAMAGE RESTORATION AGAINST ODOR-CAUSING BACTERIA AND FUNGI FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE:**

This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushions, subfloors, drywall, concrete, brick, trim and frame lumber, tackless strip and paneling. Using appropriate dilution, saturate the affected materials with enough product to remain wet for at least 10 minutes.

**Sewer Backup and River Flooding:** During mitigation procedures, dilute ½ – 1 oz. of the concentrate per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affected areas with a coarse spray device before and after cleaning and extraction.

**Carpets, Carpet Cushions and Other Porous Materials such as Subfloors, Drywall, Concrete, Brick, Trim and Frame Lumber, Tackless Strip and Paneling:** For water damage from a clean source, extract excess water. Test hidden area for colorfastness. Dilute ½ – 1 oz. of the concentrate per gallon of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Saturate all affected areas with a coarse spray device. Roll, brush or agitate into the materials and allow materials to remain wet for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

**Special instructions For Cleaning / Sanitizing Carpet Against Odor Causing Bacteria:** Use this product in industrial and institutional areas such as homes, motels, hotels, nursing homes, schools, and hospitals. Use on wet-cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning / sanitizing. Test fabric for colorfastness. **For portable extraction units:** Mix ½ oz. of concentrate per gallon of water. **For truck mounted extraction machines:** Mix ½ – 1 oz. of concentrate per gallon of water and meter at 4 gallons per hour. **For rotary floor machines:** Mix ½ oz. of concentrate 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 the product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over-wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the manufacturer's directions.

[Note to reviewer. On a final printed label, **ONLY ONE** dilution rate will be used in the sections below that contain a choice of dilution rates in the sanitization directions.]

For Food Contact Surfaces, Food Processing Equipment and Utensils in, Dairies, Public Eating Establishments and Food Processing Plants (40 CFR 180.940 (a))

(either)

½ oz. Lonza Formulation R-82F per 5 ½ gallons of water (150 active quat) [or equivalent dilution]

or

½ oz. Lonza Formulation R-82F per 4 gallons of water (200 active quat) [or equivalent dilution]

or

½ oz. Lonza Formulation R-82F per 4 – 5 ½ gallons of water (200 – 150 ppm active quat) [or equivalent dilution]

or

½ oz. Lonza Formulation R-82F per 2 – 5½ gallons of water (400 – 150 ppm active quat) [or equivalent dilution]

(or)

½ oz. Lonza Formulation R-82F per 2 – 4 gallons of water (400 – 200 ppm active quat) [or equivalent dilution]

(or)

1 oz. Lonza Formulation R-82F per 5 ½ gallons of water (300 active quat) [or equivalent dilution]

(or)

1 oz. Lonza Formulation R-82F per 4 gallons of water (400 active quat) [or equivalent dilution]

(or)

1 oz. Lonza Formulation R-82F per 4 – 5½ gallons of water (400 – 300 ppm active quat) [or equivalent dilution]

21 of 33

**TO SANITIZE FOOD CONTACT SURFACES:**

(or)

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

Use Lonza Formulation R-82F 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 dilution from dilution box]* 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, brush coarse spray.

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

**TO SANITIZE [BEVERAGE] [SOFT SERVE ICE CREAM] [OTHER FOOD] 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 dilution from dilution box]*.
3. Allow solution to remain in equipment for at least 60 seconds.
4. Drain thoroughly *[and allow to air dry]* before reuse.

**TO SANITIZE ICE MACHINES:**

1. Turn off refrigeration
2. Wash equipment with a compatible detergent and rinse with potable water prior to sanitizing.
3. Apply a solution of *[insert appropriate dilution here]*. by mechanical spray, directly pouring, or by recirculating through the system.
4. Allow surfaces to remain wet or solution to remain in equipment for at least 60 seconds.
5. 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 dilution from dilution box]* for final washer and rinser 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 dilution from dilution box*] for mechanical or automated systems. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly [and allow to air dry] before reuse.

290833

**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 dilution from dilution box] 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 R-82F** 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 dilution from dilution box] 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 dilution from dilution box] 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 dilution from dilution box]. 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.

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*(Note to reviewer: If the container size 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. Offer for recycling if available or discard in trash.

*(Note to Reviewer: For Nonrefillable Containers.)*

Nonrefillable container

*(Note to reviewer. One of the following statements must be used for Nonrefillable Containers.)*

Do not reuse or refill this container

OR

*(Only if the label does not include household/residential use)*

Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

*(Note to reviewer. One of the following statements must be used for Refillable Containers.)*

Refillable Container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

OR

Refillable Container. Refill this container with [this product] only. Do not reuse this container for any other purpose."

(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 mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:**

[Insert statements from below.]

(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 puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

(For Bag-in-Box Containers:) Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Note to Reviewer: For Nonrefillable Containers.)

Nonrefillable container

(Note to reviewer. One of the following statements must be used for Nonrefillable Containers.)

Do not reuse or refill this container

OR

(Only if the label does not include household/residential use)

Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

(Note to reviewer. The following statement must be used for Refillable Containers.)

Refillable Container. Refill this container with [this product] only. Do not reuse this container for any other purpose.

32 of 33

**PACKET LABEL TO BE USED WITH MASTER CONTAINER LABEL  
FOR DISINFECTION**

*Note to reviewer: the following will be used for 1/8 oz of concentrate:  
MIX EACH PACKET WITH [1 QUART] OF WATER*

*Note to reviewer: the following will be used for 1 oz of concentrate:  
MIX EACH PACKET WITH [2 GALLONS] OF WATER*

*Note to reviewer: the following will be used for 2 oz of concentrate:  
MIX EACH PACKET WITH [4 GALLONS] OF WATER*

*Note to reviewer: the following will be used for 4 oz of concentrate  
MIX EACH PACKET WITH [8 GALLONS] OF WATER*

**LONZA FORMULATION R-82F**

EPA. Reg. No. 6836-139  
EPA. Est. No. *(insert EPA Est. No. here)*  
Net Contents:

Active Ingredients:	
Octyl decyl dimethyl ammonium chloride.....	6.510%
Dioctyl dimethyl ammonium chloride .....	2.604%
Didecyl dimethyl ammonium chloride .....	3.906%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride.....	8.680%
(Other) (Inert) Ingredients: .....	78.300%
Total.....	100.000%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

See outer container for Precautionary Statements and Use directions

Disposal: Do not reuse packet. Wrap and put in trash.

Lonza Inc.  
90 Boroline Road  
Allendale, NJ 07401

**[IF OTHER PACKET SIZES ARE DESIRED, NEW PACKET LABEL WILL BE IDENTICAL AND THE ONLY THINGS THAT WILL VARY ARE THE NET CONTENTS, AMOUNT OF WATER TO DILUTE WITH AND PPM ACTIVE QUAT. THOSE 3 ITEMS WILL HAVE TO MATCH OR BE EQUIVALENT TO THE DILUTION CHART THAT IS SHOWN ON PAGE 14.]**



**SECONDARY CONTAINER LABEL**

*(Note to reviewer: This secondary container label will be used only when the product is diluted at 1/2 oz. or less per gallon of water)*

**LONZA FORMULATION R-82F**

**EPA Reg. No. 6836-139**

**Active Ingredients:**

Octyl decyl dimethyl ammonium chloride .....	6.510%
Dioctyl dimethyl ammonium chloride.....	2.604%
Didecyl dimethyl ammonium chloride.....	3.906%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	8.680%
[Other] [Inert] Ingredients: .....	78.300%
Total.....	100.000%

The product in this container is diluted as directed on the pesticide product label.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**Caution.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Follow the directions for use on the pesticide label when applying this product