



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 30, 2018

Jennifer DePietro  
Regulatory Affairs Associate  
Lonza Inc.  
90 Boroline Rd.  
Allendale, NJ 07401

Subject: PRIA Label Amendment – Updated efficacy-related claims  
Product Name: Lonza Formulation S-38-F  
EPA Registration Number: 6836-138  
Application Date: March 29, 2018  
Decision Number: 540248

Dear Ms. DePietro:

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

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

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

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Tara Flint via email at [flint.tara@epa.gov](mailto:flint.tara@epa.gov) or Eric Miederhoff at [Miederhoff.eric@epa.gov](mailto:Miederhoff.eric@epa.gov).

Sincerely,



Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Enclosure

Note to Reviewer:  
[Items in brackets [AAA] are optional and may/may not be included on final label]  
{Items in braces {AAA} are for information purposes and will not appear on final label}

# LONZA FORMULATION S-38F

One-Step Disinfectant

Cleaner – Sanitizer – Fungicide – Mildewstat – Virucide\* – Deodorizer

Acid-Free Cleaner  
Acid-Free Disinfectant

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 • Fungicidal • Virucidal\*

Active Ingredients:

Octyl decyl dimethyl ammonium chloride.....	1.140%
Diocetyl dimethyl ammonium chloride.....	0.456%
Didecyl dimethyl ammonium chloride.....	0.684%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	1.520%
Inert [Other] Ingredients: .....	96.200%
Total:.....	100.000%

**KEEP OUT OF REACH OF CHILDREN**

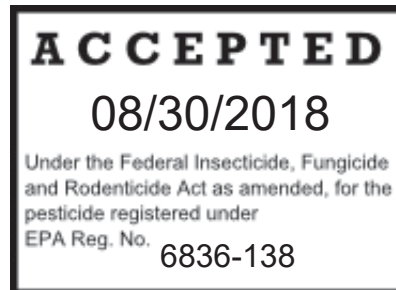
**DANGER [PELIGRO]**

See [left] [side] [right] [back] panel for Precautionary Statements and First Aid

EPA Reg. No. 6836-138  
EPA Est. No. (insert EPA Establishment No. here)  
Net Contents (insert container size here)

[DOT Symbols]  
[Country of origin (insert country)]  
[Manufactured in (insert country)]  
[Barcode]

Manufactured by:  
Lonza Inc.  
90 Boroline Road  
Allendale, NJ 07401



## **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 clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

### **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.

{Note to reviewer: The following is considered optional marketing language. All designators (i.e. asterisks and numbers) used throughout the label may be interchanged as needed on final printed label.}

### **Lonza Formulation S-38F**

- Cleans and Disinfects in One Step<sup>†</sup>
- Cleans, Disinfects, and Deodorizes
- Cleans, shines, deodorizes and disinfects nonporous household surfaces.
- delivers non-acid disinfectant and cleaning performance in an economical concentrate.
- deodorizes by killing microorganisms that cause offensive odors.
- [Eliminates] [Kills] 99.9% of [Household] Bacteria<sup>1</sup>  
<sup>1</sup>Staphylococcus aureus and Klebsiella pneumoniae
- [Eliminates] [Kills] 99.9% of [Household] Bacteria<sup>2</sup>  
<sup>2</sup>Escherichia coli [E. coli], Staphylococcus aureus [staph], Streptococcus faecalis [strep]
- [Eliminates] [Kills] 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds
- has been cleared in 40 CFR §180.940 (a) for use on food processing equipment, utensils and other food-contact articles.
- [improves labor results by] effectively controls [controlling] malodors.
- Inhibits the growth of mold and mildew leaving bathrooms and kitchens clean and smelling fresh.
- is a complete, chemically balanced disinfectant [and sanitizer] [that provides clear use solutions].
- is a [concentrated] [one-step] [Hospital Use] disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* [including HIV-1, the AIDS Virus], fungicidal, and inhibits the growth of mold and mildew, and their odors, when used as directed.
- is an [alkaline pH] disinfectant cleaner that cleans, disinfects and deodorizes in one labor saving step.<sup>†</sup>
- is a multi-surface cleaner, deodorizer, and disinfectant. Use on windows, mirrors and other glass surfaces.
- is a proven "one-step" disinfectant - sanitizer - fungicide - mildewstat - virucide\* in the presence of moderate amounts of organic soil [5% serum contamination].
- is a [versatile] cleaner and broad spectrum disinfectant formulated for use only on non-critical instruments in Ultrasonic Baths [Ultrasonic cleaning units].
- is a [versatile] disinfectant and sanitizer for hard, nonporous nonfood contact surfaces in Veterinarian, Animal care and Farm Premise applications.
- is an economical concentrate [that can be diluted for use] [with a mop and bucket, trigger sprayers, sponge or by soaking].
- is an effective one-step sanitizer for use on non-food contact surfaces.
- is effective yet economical.
- is formulated for use in daily maintenance programs with a balance of detergents and malodor counteractants that deliver effective cleaning, disinfecting and malodor control.
- Kills [Eliminates] [99.9% of] [household] germs<sup>3</sup>  
<sup>3</sup>[Effective against] Pseudomonas aeruginosa [pseudomonas], Staphylococcus aureus [staph], Streptococcus faecalis [strep], Influenza A/Brazil and Trichophyton interdigitale (formerly mentagrophytes) [Athlete's foot fungus].
- Kills Flu Virus<sup>4</sup>  
<sup>4</sup>Influenza A/Brazil
- Kills Influenza A
- tested according to AOAC Use-Dilution Method
- tested according to AOAC Germicidal & Detergent Sanitizing Action of Disinfectants
- tested according to ASTM Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces
- One Step [Cleaner and] Disinfectant<sup>†</sup>
- 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.
- will not leave grit or soap scum.

<sup>†</sup>when disinfectant directions for use are followed

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

Cleans [Cleaner]  
Concentrate [Concentrated]  
Deodorizes [Deodorant]  
Disinfects [Disinfectant]

*{Note to reviewer: The following is based on a one gallon Net Contents package size. Proportional yields may be substituted for different container sizes or dilution rates:}*

Concentrated product makes 64 gallons<sup>5</sup> of use dilution.

<sup>5</sup>at 2 oz. per gallon

Concentrated product makes 128 gallons<sup>6</sup> of use dilution.

<sup>6</sup>at 1 oz. per gallon

Concentrated product makes 256 gallons<sup>7</sup> of use dilution.

<sup>7</sup>at 1/2 oz. per gallon

#### Use **Lonza Formulation S-38F**

- as a commercial sanitizer on dishes, glassware, and utensils.
- as a disinfectant on hard, nonporous surfaces.
- as a Food-Grade Shell Egg sanitizer, with best results achieved in water temperatures ranging from 78°-110°F. **Lonza Formulation S-38F** may be applied through automatic washing systems, immersion tanks, foaming apparatus and low-pressure sprayers.
- as a sanitizer in beer fermentation and holding tanks.
- as a sanitizer in bottling and beverage dispensing equipment.
- as a sanitizer in sanitary filling of bottles and cans.
- as a sanitizer on all surfaces not requiring a rinse in official establishments operating under the Federal meat, poultry, shell egg grading and egg products inspection
- fiberglass, fixtures and toilet bowls.
- for non-scratch cleaning of sinks, showers and tubs, shower doors and curtains, glazed ceramic tiles, 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.
- for sanitizing and disinfecting of ultrasound transducers, probes, mammography compressor plates and other hard nonporous surfaces.
- in kitchens, bathrooms and other household areas.
- in sanitizing bottles or cans in the final rinse application, and for external spraying of filler and closing machines.
- on coils and drain pans of air conditioning and refrigeration equipment and heat pumps. Follow the directions for sanitization of non-food contact surfaces.
- on the multi-touch surfaces responsible for cross-contamination.
- to clean and disinfect finished floors. Can be applied with damp mop or autoscrubber. Cleans and disinfects without dulling gloss.
- to clean and disinfect finished floors, sinks and tubs.
- to clean and disinfect nonporous salon / barber tools and instruments: combs, brushes, scissors, blades and manicure instruments.
- with a mop and bucket, trigger sprayer, sponge or by soaking.

This product contains no [phosphates or] phosphorous [compounds].

**Lonza Formulation S-38F** is a phosphate free, germicidal detergent effective on hard nonporous surfaces found at mushroom farms. **Lonza Formulation S-38F** 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 S-38F** must be limited to areas where compost and mushrooms are not present.

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

Cross-contamination is of major housekeeping concern. **Lonza Formulation S-38F** has been formulated to aid in the reduction of cross-contamination on treated surfaces not only in hospitals, but in schools, institutions and industry.

Regular, effective cleaning and sanitizing of equipment, utensils, and work or dining surfaces which could harbor pathogenic bacteria 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 bacteria or toxins. Application of effective sanitizing procedures reduces the number of pathogenic bacteria 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 reduce cross-contamination between treated surfaces, 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].

For Poultry Premise Sanitation [Hatcheries]:

Buggies	Hatchery Room
Ceilings	Poultry Buildings
Chick Holding Room	Poultry House related equipment
Chick Loading Area	Racks
Chick Processing Area	Setter Room
Drinkers	Sidewalls
Egg Flats	Tray Dumping Area
Egg Holding Area	Trays
Egg Receiving Area	
Floors	

and other hard, nonporous surfaces in the Hatchery environment.

For Swine Premise Sanitation:

Chutes	Hauling Equipment
Creep area	Loading Equipment
Dressing Plants	Nursery blocks
Farrowing Barns and areas	Waterers and Feeders

For Farm Premise Sanitation:

Automatic feeders	Mangers
Feed racks	Scrapers
Floors	Shovels
Forks	Troughs
Fountains and waterers	Walls

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-38F** in:

{Note to reviewer: Each entry below also represents a graphic depicting the corresponding area of use. The graphics will only represent individual objects or outsides or insides of buildings as described below. No people, animal or food will be depicted in graphics.}

Bathrooms  
Homes [households]  
Kitchens

Clinics  
Dental offices  
Hospitals  
Medical Offices  
Medical related facilities  
Nursing homes  
Sick Rooms

Day care centers  
Nurseries

Bars  
Cafeterias  
Convenience stores  
Egg Processing Plants  
Federally inspected meat and poultry 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  
Laundries  
Locker rooms

Motels  
Prisons  
Public facilities  
Public rest rooms  
Salons [Beauty] [Tanning]  
Schools  
Shower and bath areas  
Universities

Camp grounds  
Play ground equipment

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

Airplanes  
Airports  
Ambulances  
Boats  
Buses  
Campers  
Cars  
Emergency [Police] [EMS] [Fire] [Rescue] vehicles  
Mobile homes  
Railcars  
Ships  
Taxis  
Trailers  
Trains  
Transportation terminals  
Trucks [Box Trucks]



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

**[TYPES OF SURFACES:]**

Use **Lonza Formulation S-38F** on washable hard, nonporous surfaces of:

*{Note to reviewer: Each entry below also represents a graphic depicting the corresponding type of surface. No people, animal or food will be depicted in graphics. Only exteriors of microwaves and refrigerators will be depicted. Toy graphics will be submitted to Agency for review.}*

Appliances, exteriors	Urinals
Basins	Walls
Bathroom fixtures	Whirlpool [bathtubs] [tubs] [units]
Bathtubs	Windows
Cabinets	
Cages	Beer fermentation and holding tanks
Chairs	Blenders
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps	Bottling or premix dispensing equipment
Conductive flooring	Chopping blocks, plastic and other nonporous
Counters [countertops]	Cooking utensils
Countertop laminates	Coolers
Desks	Cutlery
Doorknobs [and handles]	Cutting Boards, plastic and other nonporous
Fiberglass sinks, tubs, and showers	Dishes
Floors	Eating Utensils
Floors – high speed burnished	Food processors
Foot Spas	Glassware
Garbage cans	Ice Chests
Highchairs	Kitchen equipment
Kennel runs	Refrigerator bins used for meat, fruit, vegetables and eggs
Microwave ovens, exterior surfaces of	Silverware
Mirrors	Slurpy Machines
Outdoor [patio] furniture except cushions and wood frames	Tupperware®
Refrigerators, exteriors	Other hard nonporous surfaces made of:
Refrigerated storage and display equipment	Fiberglass
Showers	Formica®
[Fiberglass] Shower stalls	Glass
[Fiberglass] Sinks [bathroom, kitchen]	Glazed ceramic
Stoves [stovetops]	Glazed enameled surfaces
Tables [picnic tables]	Glazed porcelain
Telephones	Metal
Toilets	Plastic [such as polystyrene or polypropylene]
Toilet bowls	Sealed stone
Toilet bowl surfaces	Stainless steel
Tubs [Fiberglass]	Upholstery, vinyl and plastic
Tiles, glazed	Woodwork, finished
Ultrasonic baths	

{Note to reviewer: The following is considered optional marketing language. ATCC numbers are listed on the data matrix.}

**Lonza Formulation S-38F** is a sanitizer for hard porous and nonporous non-food contact surfaces at 1:256 dilution [150 ppm active] [ $\frac{1}{2}$  oz. per gallon of water] according to the method for Sanitizers – Non-food Contact surfaces, modified in the presence of 300 ppm hard water plus 5% organic serum in 60 seconds against:

Klebsiella pneumoniae  
Staphylococcus aureus

**Lonza Formulation S-38F** eliminates 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds.

**Lonza Formulation S-38F** fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinances Recommendations of the U.S. Public Health Services in waters up to 300 ppm of hardness calculated as  $\text{CaCO}_3$  when evaluated by the AOAC Germicidal and Detergent Sanitizer Method.

**Lonza Formulation S-38F** is an effective sanitizer for use on food contact surfaces in 60 seconds at 150 ppm active against:

Escherichia coli  
Staphylococcus aureus

**Lonza Formulation S-38F** is an effective sanitizer for use on food contact surfaces at 150 ppm active in waters up to 250 ppm hardness in 60 seconds against:

Listeria monocytogenes  
Salmonella enterica

**Lonza Formulation S-38F** is an effective sanitizer for use on food contact surfaces at 400 ppm active in waters up to 500 ppm hardness in 60 seconds against:

Listeria monocytogenes

**For \*Virucidal Effectiveness:**

At 1 oz. per gallon of water, **Lonza Formulation S-38F** was evaluated in the presence of 5% serum and found to be effective against the following viruses:

- \*Influenza Virus A/Brazil
- \*Hepatitis B Virus [HBV]
- \*Hepatitis C Virus [HCV]
- \*Herpes Simplex Virus Type 1 and 2
- \*HIV-1 [AIDS virus]
- \*Vaccinia Virus

- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against Influenza Virus A/Brazil and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 [formerly called swine flu].
- This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against Influenza Virus A/Brazil and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 [formerly called swine flu].
- Kills Pandemic 2009 H1N1 influenza A virus [formerly called swine flu].
- Kills Pandemic 2009 H1N1 influenza A virus.

{Note to reviewer: The following is considered optional marketing language. ATCC numbers are listed on the data matrix.}

**For Hospitals, Medical and Dental Offices, Nursing Homes and other Medical Facilities:**

At 2 oz. per gallon of water, the activity of **Lonza Formulation S-38F** has been evaluated in the presence of 5% organic serum by the AOAC use-dilution test and found to be effective against the following gram negative and gram positive organisms [Bacteria]:

Pseudomonas aeruginosa [Pseudomonas]  
Staphylococcus aureus [Staph]  
Salmonella enterica [Salmonella]

Acinetobacter baumannii [Acinetobacter]  
Burkholderia cepacia [Pseudomonas]  
Corynebacterium ammoniagenes  
Enterobacter aerogenes  
Enterococcus faecalis - Vancomycin resistant [VRE]  
Escherichia coli [E. coli]  
ESBL Escherichia coli – [Extended spectrum beta-lactamase producing E. coli]  
Klebsiella pneumoniae [Klebsiella]  
Salmonella schottmuelleri [Salmonella]  
Serratia marcescens  
Shigella dysenteriae [Shigella]  
Staphylococcus aureus Methicillin-Resistant [MRSA]  
Staphylococcus aureus - Vancomycin Intermediate Resistant – [VISA]  
Streptococcus faecalis [Strep]

**For Schools, Public Rest Rooms, Athletic Facilities, Food Processing Plants, Food Storage Areas, Kitchens, Restaurants, Bars, Transportation Terminals, Hotels, Motels and Other Non-Medical Institutional and Industrial Uses:**

At 1 oz. per gallon of water, the activity of **Lonza Formulation S-38F** has been evaluated in the presence of 5% organic serum by the AOAC use-dilution test and found to be effective against:

Staphylococcus aureus [Staph]  
Salmonella enterica [Salmonella]

Corynebacterium ammoniagenes  
Enterobacter aerogenes  
Escherichia coli [E. coli]  
Klebsiella pneumoniae [Klebsiella]  
Salmonella schottmuelleri [Salmonella]  
Serratia marcescens  
Shigella dysenteriae [Shigella]  
Streptococcus faecalis [Strep]

**Dilution:**

Disinfection – Medical [1:64] .....	2 oz. per gallon of water
Disinfection – Non Medical [1:128].....	1 oz. per gallon of water
Sanitizer [1:256] .....	½ oz. per gallon of water
.....	[150 ppm active]
Sanitizer [1:96] .....	[1⅓ oz. per gallon of water]
.....	[400 ppm active]

*{If the following Spanish statement is used, it must appear directly above DIRECTIONS FOR USE.}  
 Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. [If you do not understand the label, find someone to explain it to you in detail.]*

**DIRECTIONS FOR USE**

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

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 Use-Solution:**

Disinfection – Medical [1:64] .....	2 oz. per gallon of water
Disinfection – Non Medical [1:128].....	1 oz. per gallon of water
Virucide [1:128] .....	1 oz. per gallon of water
For heavy duty use, add [mix] 8 oz. of <b>Lonza Formulation S-38F</b> per gallon of water.	

**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. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required.

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

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.

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:**

At 1 oz. per gallon of water, **Lonza Formulation S-38F** is an effective fungicide against Trichophyton mentagrophytes [the athlete's foot fungus] when used on hard nonporous surfaces in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

**For mold and mildew control:**

At 1 oz. per gallon of water, **Lonza Formulation S-38F** will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces. Allow to dry on surface. Repeat every seven days or more often if new growth appears.

*{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. 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.

**\*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-1 or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of **Lonza Formulation S-38F**.

**Contact Time:** Leave surface wet for 10 minutes.

**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.

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

If surfaces are visibly dirty, preclean first.

**From Concentrate:**

Add 1 – 2 oz. to the bowl water and mix. Thoroughly brush or swab over exposed surfaces including 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 1 – 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.

**SALON / BARBER INSTRUMENTS AND TOOLS DISINFECTION [BACTERICIDE] / VIRUCIDE / FUNGICIDE DIRECTIONS:**

Use [Mix] 1 - 2 oz. of **Lonza Formulation S-38F** per gallon of water [ $\frac{1}{4}$  -  $\frac{1}{2}$  oz. per quart of water] [or equivalent dilution] 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. Prepare fresh solution 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-38F** to disinfect hard nonporous non-critical objects compatible with Ultrasonic cleaning units. Pour fresh use-solution of 1 - 2 oz. of **Lonza Formulation S-38F** 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 UNITS:** After using the whirlpool unit, drain, and refill with fresh water to just cover the intake valve. Add 1 – 2 oz. of **Lonza Formulation S-38F** for each gallon of fresh water added. Start the pump to circulate the solution. Wash down the unit sides, seat of the chair lift and any related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly cleaned, drain the solution from the unit and rinse cleaned surfaces with fresh water. Repeat for heavily soiled units.

**FOR USE ON FINISHED FLOORS:** To limit gloss reduction use **Lonza Formulation S-38F** at 1 – 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.

**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 1 – 2 oz. of **Lonza Formulation S-38F** 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 1 – 2 oz. of **Lonza Formulation S-38F** 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 1 – 2 oz. of **Lonza Formulation S-38F** 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 letter 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 1 – 2 oz. of **Lonza Formulation S-38F** per gallon of water to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces wet for 10 minutes or more. Wipe or allow to air dry.

**Vehicles:** Clean all vehicles including mats, crates, cabs and wheels with water and **Lonza Formulation S-38F**. Use 1 - 2 oz. of **Lonza Formulation S-38F** per gallon of water to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more. Wipe 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 gallon 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.

**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 1 – 2 oz. per gallon of water use solution of **Lonza Formulation S-38F**. 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 1 – 2 oz. of **Lonza Formulation S-38F** 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 2 oz. of **Lonza Formulation S-38F** 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.

**SANITIZING NON FOOD CONTACT SURFACES:** [such as floors, walls, and tables.]. Add ½ oz. of **Lonza Formulation S-38F** per gallon of water. **Lonza Formulation S-38F** is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae* in the presence of 5% serum on porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds. Wipe dry with a sponge, mop, or cloth or allow to air dry.

### **LAUNDRY SANITIZER DIRECTIONS: {Not for Use in California}**

This product sanitizes by controlling or reducing the growth of odor-causing bacteria when used on washable laundry items such as bed spreads, sheets, pillow cases, diapers, towels and other wet linens. Use 1 oz. per 25 lbs. of dry weight fabric. Dilute the appropriate amount of **Lonza Formulation S-38F** in one to two gallons of water, then add to the wash wheel in the final rinse. Laundered fabric may also be treated by soaking.

**TO SANITIZE BARBER / SALON INSTRUMENTS AND TOOLS:** Immerse hard, nonporous 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 S-38F** per gallon 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.

### **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 S-38F** to sanitize precleaned 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, pre-flush, or pre-scrape and, when necessary, pre-soak all surfaces. 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 ½ oz. [to 1½ oz.] of **Lonza Formulation S-38F** per gallon of water [or equivalent dilution] [150 ppm [to 400 ppm] active] to precleaned 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 or coarse spray.

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

**Lonza Formulation S-38F** 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 ½ oz. [to 1 ⅓ oz.] of **Lonza Formulation S-38F** per gallon of water [150 ppm [to 400 ppm] active quat] [or equivalent dilution] for at least 60 seconds at a [minimum] temperature of 75°F.
4. For equipment and utensils too large to sanitize by immersion, apply a use-solution of ½ oz. [to 1 ⅓ oz.] of **Lonza Formulation S-38F** per gallon of water [150 ppm [to 400 ppm] active quat] [or equivalent dilution] by rinsing, spraying or swabbing until thoroughly wet.
5. Allow sanitized surface to drain and air dry. Do not rinse.

#### **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 ½ oz. [to 1 ⅓ oz.] **Lonza Formulation S-38F** per gallon of water [or equivalent dilution] [150 ppm [to 400 ppm] active].
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 ½ oz. [to 1 ⅓ oz.] of **Lonza Formulation S-38F** per gallon of water [or equivalent dilution] [150 ppm [to 400 ppm] active] 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 ½ oz. [to 1 ⅓ oz.] of **Lonza Formulation S-38F** per gallon of water [or equivalent dilution] [150 ppm [to 400 ppm] active] 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 ½ oz. [to 1 ⅓ oz.] of **Lonza Formulation S-38F** per gallon of warm water [or equivalent dilution] [150 ppm [to 400 ppm] active]. 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.



**TO SANITIZE STATIONARY KITCHEN AND FOOD PROCESSING EQUIPMENT:**

**Lonza Formulation S-38F** can be used to clean and sanitize equipment such as deli slicers, beverage equipment, ice machines and dispensers. Refer to the equipment manufacturer's instructions to determine how to clean and sanitize the equipment in place or to disassemble the equipment for cleaning & sanitizing by immersion.

Clean with **Lonza Formulation S-38F** according to the label directions. To sanitize, preclean/clean surfaces and apply a use-solution of ½ - 1 1/3 oz. of **Lonza Formulation S-38F** per gallon of water [150 [to 400ppm] active quat] [or equivalent dilution] by spraying or swabbing until thoroughly wet. Allow surfaces to remain wet for at least 60 seconds. Drain thoroughly before reuse and allow to air dry.

**TO CLEAN [AND DEODORIZE] {or} CLEANING DIRECTIONS:**

Mix [1 – 2 oz.] [1 – 1 1/3 oz.] of **Lonza Formulation S-38F** per gallon of water to clean [and deodorize] surfaces. Apply using a cloth, mop, sponge or sprayer [or by immersion]. Wipe or allow to air dry.

**GLASS CLEANING / DEODORIZING DIRECTIONS:**

Add ½ - 2 oz. of **Lonza Formulation S-38F** per gallon of water to clean and deodorize windows, mirrors and glass surfaces. Use a coarse spray device. Spray 6 - 8 inches from surface. Rub with a sponge or cloth. Do not breathe spray.

**For Bag – In – Box Containers:**

How to use this package:

This package is designed to be used with dilution control systems only. Open package and connect to dispense according to directions on box top.

**Trigger Sprayers:**

Fill bottle from dispenser.

Apply to surfaces as specified in directions above.

**Mop Buckets:**

Fill bucket from dispenser.

Set up "Wet Floor" signs.

Mop floor surface as specified in directions above

*{Note to reviewer: For Nonrefillable Containers, Label has Household and Residential Uses}*

## **STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children. Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for recycling if available.

*{or}*

Store in original container in areas inaccessible to children. Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for reconditioning if appropriate.

*{Note to reviewer: For Nonrefillable Containers for commercial, industrial, and institutional uses – all sizes – No Reuse Rinsate Statement for Public Health Use products. Chapter 13, Table 6 of the Label Review Manual states that for “All products in containers that could be burned,” the registrant has the option to “Remain silent on burning;” therefore, no incineration language is provided for plastic containers.}*

## **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Open dumping is prohibited. Store in original container in areas inaccessible to children.

### **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:**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

**{Plastic and Metal Containers:}** Triple rinse as follows: Fill container  $\frac{1}{4}$  full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

**{Metal containers only:}** DO NOT cut or weld metal containers.

**{Bag in Box Containers:}** Completely empty bag into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

*{Note to reviewer: For Nonrefillable Sealed Containers: Packaging options can be in sealed containers or bottles designed for use dilution systems to reduce worker exposure to the concentrate. None of these can be triple rinsed because they are closed sealed containers. The following text will be used on these sealed container types:}*

## **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Open dumping is prohibited. Store in original container in areas inaccessible to children.

**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:** Nonrefillable container. Do not reuse or refill this container. Wrap empty container and put in trash.

**{SECONDARY CONTAINER LABEL}**

*{Note to reviewer: This secondary container label will be used only when the product is diluted at 2 oz. or less per gallon of water. Other dilutions must use concentrate signal word and precautionary statements from page 1 and 2.}*

**LONZA FORMULATION S-38F**

Active Ingredients:

Octyl decyl dimethyl ammonium chloride.....	1.140%
Diethyl dimethyl ammonium chloride.....	0.456%
Didecyl dimethyl ammonium chloride.....	0.684%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	1.520%
Inert [Other] Ingredients: .....	96.200%
Total:.....	100.000%

The product in this container must be diluted at the use rate of 2 oz. or less per gallon of water as directed on the pesticide product label.

**KEEP OUT OF REACH OF CHILDREN**

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

EPA Reg. No. 6836-138

Diluted product not for sale or distribution.

*{Note to reviewer, the following is optional marketing language to be used with Insta-Use Refill Cartridge and bottle}*

Individual cartridges are not for resale.

*{Note to reviewer, the following are instructions for Insta-Use Refill Cartridge and bottle}*

**Cartridge Instructions (choose one of the following):**

Fill bottle with water to fill line on spray bottle. Insert cartridge as shown into spray bottle.

Note: Do not overfill bottle. Overfilling will prevent cartridge from emptying.

OR

Fill bottle with water as directed on the product label. Insert cartridge as shown into spray bottle. Note: Do not overfill bottle. Over filling will prevent cartridge from emptying.

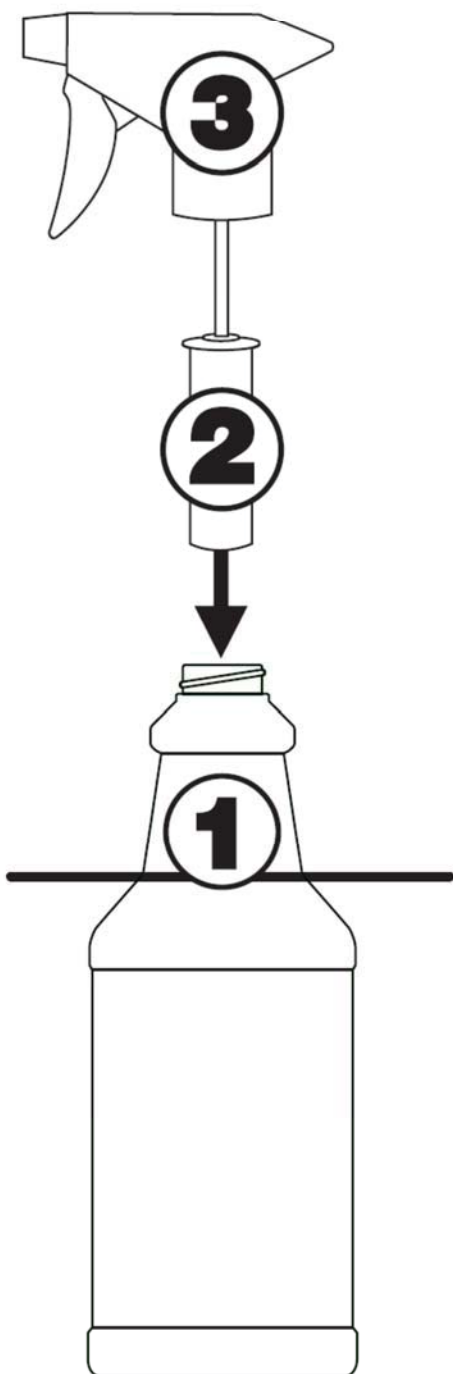
**Storage and Disposal:**

Store in original container in areas inaccessible to children. Do not reuse empty cartridge.

Wrap and discard in trash or recycle. Keep from freezing.

{Note to reviewer, the following is a graphic and instructions for Insta-Use Refill Cartridge and bottle}

# Refill Directions



**3) Attach sprayer to bottle & shake gently.**

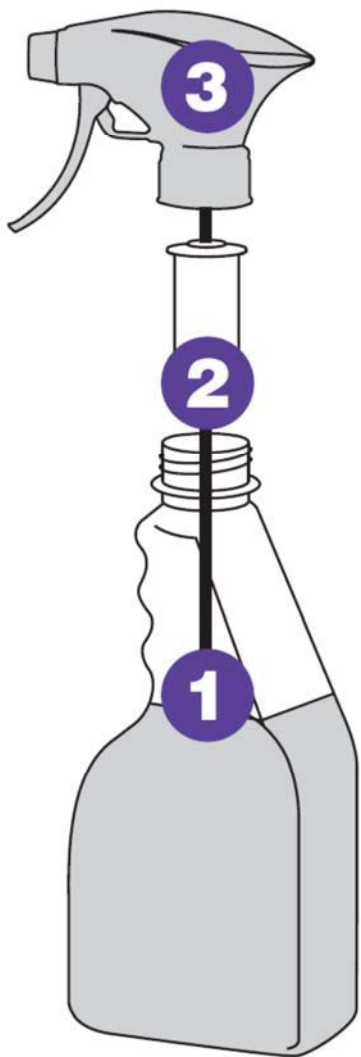
**2) Insert cartridge into bottle neck.**

**1) Fill with water to fill line.**

**NOTE:** Overfilling will prevent the cartridge from emptying completely.

{Note to reviewer, the following is a graphic and instructions for Insta-Use Refill Cartridge and bottle}

## ***Refill Directions***



← **3) Attach sprayer to bottle & shake gently.**

← **2) Insert cartridge into Bottle neck.**

← **1) Water fill level**

**NOTE:** Overfilling will prevent the cartridge from emptying completely.