

6836-73

4/3/2009

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 3 2009

Georgia Anastasiou  
Agent for Lonza  
Lewis & Harrison  
122 C Street, NW Suite 740  
Washington, DC 20001

Subject: Lonza Formulation S-38  
EPA Reg. No. 6836-73  
Application Dated: Feb 227, 2009  
Receipt Date: March 04, 2009

Dear Ms. Anastasiou

This letter acknowledges receipt of your notification submitted under the provisions of PR Notice 98-10 and Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(C) 9.

- Updating label per 2007-4
- Adding Optional Language, bar codes, and NSF Logo

**General Comments**

Based on a review of the material submitted, your notification to revise the label as listed above is acceptable. A copy has been placed in our records for future reference.

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

Sincerely,

Velma Noble  
Product Manager (31)

**CONCURRENCES**

YMBOL							
URNAME							
DATE							

Regulatory Management Branch I  
Antimicrobials Division (7510P)

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	<b>EPA</b> United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> <b>Other: Notification</b>	OPP Identifier Number
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**Application for Pesticide - Section I**

1. Company/Product Number <b>6836-73</b>	2. EPA Product Manager <b>Velma Noble</b>	3. Proposed Classification  <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Lonza Formulation S-38</b>	PM# <b>31</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>Lonza, Inc.</b> <b>90 Boroline Rd.</b> <b>Allendale, NJ 07401</b> <b><u>PLEASE SEND ALL CORRESPONDENCE TO</u></b> <b><u>"CONTACT POINT" LISTED BELOW</u></b> <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(1), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

**Section - II**

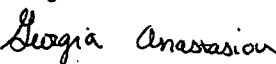
<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)  
**Application for Notification**  
**Please read cover letter for details.**

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)	
*Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name <b>Georgia Anastasiou, Lewis &amp; Harrison, LLC,</b> <b>122 C Street NW, Ste. 740, Washington, DC 20001</b>	Title <b>Agent for Lonza, Inc.</b>	Telephone No. (Include Area Code) <b>202-393-2903 x19</b>
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature 	3. Title <b>Agent for Lonza, Inc.</b>	
4. Typed Name <b>Georgia Anastasiou</b>	5. Date <b>February 27, 2009</b>	

# LEWIS & HARRISON

Consultants in Government Affairs

122 C Street, N.W., Suite 740  
Washington, D.C. 20001

telephone 202.393.3903  
fax 202.393.3906

February 27, 2009

*HAND DELIVERED*

Document Processing Desk [NOTIF]  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
One Potomac Yard, Room S-4900  
2777 S. Crystal Drive  
Arlington, VA 22202

**ATTENTION:**        **Velma Noble**  
                              **Product Manager (31)**

**SUBJECT:**            **Lonza Inc.**  
                              **Lonza Formulation S-38 (EPA Reg. No. 6836-73)**  
                              **Application for Pesticide Notification**

Dear Ms. Noble:

On behalf of Lonza, Inc, I am submitting a notification for the product, **Lonza Formulation S-38 (EPA Reg. No. 6836-73)**. The purpose of this notification is the following:

1. Add the optional language: "Country of Origin..." and "Manufactured in.."
2. Add the optional box for bar codes.
3. Add the optional NSF language and symbols.
4. Update disposal language in accordance with PR-Notice 2007-4. Please note the language we are proposing has been approved by EPA on other Lonza labels and per the attached email.

Notification for an Antimicrobial Product in Accordance With PR Notice 98-10 This notification is consistent with the provisions of PR Notice 98-10 EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be the subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C Sec. 1001 to willfully make any false statements to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§156.10, 156.140, 156.144, 156.146 and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Enclosed please find the following documents in support of this notification:

- a) Application for Pesticide Notification;
- b) One (1) copy of the label with changes highlighted; and,
- c) Two (2) copies of the label.

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Thank you for your assistance with this submission. If you have any questions please feel free to contact me at 202-393-3903 ext. 19 or [georgia@lewisharrison.com](mailto:georgia@lewisharrison.com).

Sincerely,

*Georgia Anastasiou*

Georgia Anastasiou  
Agent for,  
Lonza, Inc

cc: Kari Mavian (Lonza, Inc.)  
Joanna Holcombe (Lonza, Inc.)

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# LONZA FORMULATION S-38

One-Step Disinfectant

Cleaner – Sanitizer – Fungicide–Mildewstat - Virucide\* - Deodorizer  
With Organic Soil Tolerance for Homes, Hospitals, Institutional, Commercial,  
Farm and Industrial Use

Acid-Free Cleaner  
Acid-Free Disinfectant

Citrus / Floral / Fresh / Clean / Pine / Mint / Lemon (Odor)(Scent)(Fragrance)

- 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

- Staphylocidal • Pseudomonacidal • Bactericidal • Salmonellacidal • 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: .....	<u>96.200%</u>
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. 6836-73

EPA Est. No. (*insert EPA Establishment No. here*)

Net Contents (*insert container size here*)

[Country of origin (*insert country*)]

[Manufactured in (*insert country*)]

[Barcode]

Manufactured by:

Lonza Inc.

90 Boroline Rd.

Allendale, NJ 07401

LONZA FORMULATION S-38

EPA Reg. No. 6836-73

EPA Notif Draft 2-27-09

(Note to reviewer: Language in ( ) is optional or interchangeable)

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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

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

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

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

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

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

- 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) (is an alkaline pH 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).
- will not leave grit or soap scum.
- is a (versatile) disinfectant and sanitizer for hard, nonporous nonfood contact 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).
- Cleans, shines, deodorizes and disinfects nonporous household surfaces.
- Inhibits the growth of mold and mildew leaving bathrooms and kitchens clean and smelling fresh.
- Kills (Eliminates) (99.9% of) (99.99% of) (household) germs\*\*
- \*\* (Effective against) *Pseudomonas aeruginosa* (*pseudomonas*), *Staphylococcus aureus* (*staph*), *Streptococcus faecalis* (*strep*), *Influenza A/Brazil* and *Trichophyton mentagrophytes* (*Athlete's foot fungus*).
- (Eliminates) (Kills) 99.9% of (Household) Bacteria\*\*\*  
\*\*\**Staphylococcus aureus* and *Klebsiella pneumoniae*
- (Eliminates) (Kills) 99.9% of *Staphylococcus aureus* and *Klebsiella pneumoniae* in 60 seconds
- is a multi-surface cleaner, deodorizer, and disinfectant. Use on windows, mirrors and other glass surfaces.
- 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), 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\* in the presence of moderate amounts of organic soil (5% serum contamination).

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

Cross-contamination is of major housekeeping concern. **LONZA FORMULATION S-38** has been formulated to aid in the reduction of cross-contamination not only in hospitals, but in schools, institutions and industry.

Concentrate (Concentrated)

Disinfects (Disinfectant)

Cleans (Cleaner)

Deodorizes (Deodorant)

This product contains no (phosphates or) phosphorous (compounds).

(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\*\*\*\* of use dilution.

\*\*\*\* at 2 oz per gallon

Concentrated product makes 128 gallons\*\*\*\*\* of use dilution.

\*\*\*\*\* at 1 oz per gallon

Concentrated product makes 256 gallons\*\*\*\*\* of use dilution.

\*\*\*\*\* at 1/2 oz per gallon



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

**Use Lonza Formulation S-38**

- in inedible processing areas, non processing areas and or exterior areas in official establishments operating under the Federal meat, poultry, egg shell grading and egg products inspection programs
- in federally inspected Meat & Poultry Plants as a non-food contact sanitizer and / or disinfectant. This product was authorized by USDA as category D1 under the prior authorization program and its formula has not been changed.
- on the multi-touch surfaces responsible for cross-contamination and infection.
- 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 sinks, showers and tubs, shower doors and curtains, glazed ceramic tiles, fiberglass, 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.

**(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 NSF 6-Digit Listing Number here)**

- for Poultry Premise Sanitation (Hatcheries):  
 Egg Receiving Area Tray Dumping Area  
 Chick Processing Area Egg Holding Area  
 Chick Holding Room Chick Loading Area  
 Setter Room Hatchery Room  
 Poultry Buildings Racks  
 Buggies Trays  
 Egg Flats Ceilings  
 Sidewalls Floors  
 Drinkers Poultry House related equipment  
 other hard, nonporous surfaces in the Hatchery environment.

- for Swine Premise Sanitation:  
 Farrowing Barns and areas Dressing Plants  
 Creep area Waterers and Feeders  
 Loading Equipment Chutes  
 Hauling Equipment Nursery blocks

- for Farm Premise Sanitation:  
 floors walls  
 feed racks mangers  
 troughs forks,  
 automatic feeders shovels,  
 fountains and waterers scrapers  
 and other nonporous surfaces in barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals.

**Lonza Formulation S-38** is a phosphate free, germicidal detergent effective in the presence of a moderate amount of organic soil on hard nonporous surfaces found at mushroom farms. **Lonza Formulation S-38** 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-38** must be limited to areas where compost and mushrooms are not present.

**LONZA FORMULATION S-38** is a sanitizer for hard porous and nonporous non-food contact surfaces at 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-38** eliminates 99.9% of Staphylococcus aureus and Klebsiella pneumoniae in 60 seconds.

**For \*Virucidal Effectiveness:**

**LONZA FORMULATION S-38** is an effective virucide in the presence of 5% serum against the following organisms:

- \*Influenza A / Brazil
- \*Herpes Simplex Type 1 and 2
- \*HIV-1 (AIDS virus)
- \*Vaccinia

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

According to AOAC Use Dilution Test, **LONZA FORMULATION S-38** is an effective hospital disinfectant in the presence of 5% organic serum against the following gram negative and gram positive organisms (*Bacteria*):

- Pseudomonas aeruginosa (Pseudomonas)
- Staphylococcus aureus (Staph)
- Salmonella choleraesuis (Salmonella)
- Acinetobacter baumannii (Acinetobacter)
- Corynebacterium ammoniagenes (Brevibacterium 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)
- Pseudomonas cepacia (Pseudomonas)
- 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:**

According to AOAC Use Dilution Test, **LONZA FORMULATION S-38** is an effective broad spectrum general disinfectant in the presence or 5% organic serum against the following organisms:

- Staphylococcus aureus (Staph)
- Salmonella choleraesuis (Salmonella)
- Brevibacterium ammoniagenes (Brevibacterium)
- Enterobacter aerogenes
- Escherichia coli (E. coli)
- Klebsiella pneumoniae (Klebsiella)
- Salmonella schottmuelleri (Salmonella)
- Serratia marcescens
- Shigella dysenteriae (Shigella)
- Streptococcus faecalis (Strep)

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

**(AREAS OF USE:)**

**Use Lonza Formulation S-38 in:**

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  
Locker rooms  
Motels  
Prisons  
Public facilities

Public rest rooms  
Salons [Beauty] [Tanning]  
Schools  
Shower and bath areas

Camp grounds  
Play ground equipment

Animal laboratories  
Dairy 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: Language in ( ) is optional or interchangeable)*

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

**(TYPES OF SURFACES:)**

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

Appliances, exteriors	Ultrasonic baths
Basins	Urinals
Bathroom fixtures	Walls
Bathtubs	Whirlpool [bathtubs] [tubs] [units]
Cabinets	Windows
Cages	
Chairs	Non-critical medical device surfaces
Coils and drain pans of air conditioning and refrigeration equipment and heat pumps	[Medical] [Hospital] Beds
Conductive flooring	Bed frames
Counters (countertops)	Bed rails
Countertop laminates	Crutches
Desks	Defibrillators
Doorknobs (and handles)	Gurneys
Floors	Non-critical [hospital] [medical] equipment surfaces
Floors – high speed burnished	[Medical] Examining tables
Foot Spas	[Medical] [Hospital] Lamps
Garbage cans	Rescue tools
Highchairs	Resuscitators
Kennel runs	[Medical] [Hospital] Scales
Microwave ovens	Stands
Mirrors	Stretchers
Outdoor (patio) furniture except cushions and wood frames	Stethoscopes
Refrigerators, exteriors	Walkers
Refrigerated storage and display equipment	Wheel chairs
Showers	
(Fiberglass) Shower stalls	Other hard nonporous surfaces made of:
(Fiberglass) Sinks (bathroom, kitchen)	Fiberglass
Stoves (stovetops)	Formica®
Tables (picnic tables)	Glass
Telephones	Glazed ceramic
Toilets	Glazed enameled surfaces
Toilet bowls	Glazed porcelain
Toilet bowl surfaces	Metal
Tubs (Fiberglass)	Plastic (such as polystyrene or polypropylene)
Tiles, glazed	Sealed stone
	Stainless steel
	Upholstery, vinyl and plastic
	Woodwork, finished

**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
  - Sanitizer (1:256).....1/2 oz per gallon of water (150 ppm active)
  - Mold and Mildew Control.....1 oz. per gallon of water
  - Heavy Duty Use.....8 oz. per gallon of water
- For heavy duty use, add (mix) 8 oz. of Lonza Formulation S-38 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 recommended.

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-38** is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on 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-38** 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.

**TO CLEAN AND DEODORIZE:** Mix 1 –2 oz. of **Lonza Formulation S-38** per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

**GLASS CLEANING / DEODORIZING DIRECTIONS:**

Add ½ - 2 oz. of **LONZA FORMULATION S-38** 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.

**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.

**FOR USE ON FINISHED FLOORS:** To limit gloss reduction use **LONZA FORMULATION S-38** 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.



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

Use (Mix) 1 - 2 oz. of **LONZA FORMULATION S-38** 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-38** to disinfect hard nonporous non-critical objects compatible with Ultrasonic cleaning units. Pour fresh use-solution of 1 - 2 oz. of **Lonza Formulation S-38** per gallon of water directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturer's directions. Remove objects and wash with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use.

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

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. of **Lonza Formulation S-38** for each gallon of fresh water added.. Start the pump to circulate the solution. Wash down [the (deck) (seat of chair lift) (any related equipment)] any uncovered surfaces on the (bath) (unit) 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 DIRECTIONS:**

After using [whirlpool] foot spa, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent. Rinse with water. Saturate surfaces with 2 oz. of product per gallon of water to exposed surfaces with cloth, sponge, or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. After unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water.

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**\*KILLS HIV 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).

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

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

**CLEANING PROCEDURE:** Blood and other body fluids containing HIV-1 must be thoroughly cleaned from surfaces and objects before application of **LONZA FORMULATION S-38**.

**CONTACT TIME:** Leave surface wet for 10 minutes **DISPOSAL OF INFECTIOUS MATERIAL:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**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-38** 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.

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### **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-38** 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-38** 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, 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-38** 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 high pressure water and **LONZA FORMULATION S-38**. Use 1 - 2 oz. of **LONZA FORMULATION S-38** 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 the cross contamination of organisms into animal areas, shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots and place in a 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-38**. Scrub to loosen all soils. Surfaces must remain wet for 10 minutes, then thoroughly rinsed with potable water before operations are resumed.

**MUSHROOM FARM PREMISE USE:**

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

**Cleaning and Disinfection:** For general cleaning and disinfection, use 1 – 2 oz. of **Lonza Formulation S-38** per gallon of water (*or equivalent dilution*). Apply use solution with a cloth, mop, sponge, sprayer or by immersion to thoroughly wet the surfaces. Treated surfaces should be allowed to remain wet for 10 minutes. Wipe or allow to air dry. For heavily soiled areas, preclean first. Prepare 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-38** 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.

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**SANITIZING NON FOOD CONTACT SURFACES:** (such as floors, walls, and tables.). Add ½ oz. of LONZA FORMULATION S-38 per gallon of water. LONZA FORMULATION S-38 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:** 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-38 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:** Preclean barber/beauty salon instruments. 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-38** 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.

**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, Container is one gallon or less, Label has Household and Residential Uses only:)*

**STORAGE AND DISPOSAL**

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

Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for recycling if available.

(or)

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, Container is one gallon or less, Label has any uses other than Household and Residential)*

**STORAGE AND DISPOSAL**

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

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously and dispose of rinsate. Repeat two more times. Wrap [container] and put in trash or offer for recycling if available.

(or)

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously and dispose of rinsate. Repeat two more times. Wrap [container] and put in trash or offer for reconditioning if appropriate

*(Note to reviewer: For Nonrefillable Containers, Container is over one gallon.)*

**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:**

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

**(Plastic or Metal Containers:)** Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. If not tripled rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities.