

6836-73

07-09-2007

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 9 2007

Ms. Georgia Anastasiou
Agent for Lonza, Inc.
Lewis & Harrison
122 C Street, NW Ste 740
Washington, DC 20001

Subject: Lonza Formulation S-38
EPA Registration No.: 6836-73
Amendment Date: April 9, 2007
EPA Receipt Date: April 10, 2007

Dear Ms. Anastasiou,

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable with the conditions listed below.

- Add marketing claims, use sites, and use solution information

Conditions

Revise the label as follows:

- 1) Revise the third claim in the right column on page 2 by deleting "EPA."
- 2) Revise the following claims on page 3 by deleting the dilution rates:

Lonza Formulation S38 is a sanitizer on hard porous and nonporous nonfood contact surfaces according to the method for Sanitizers-NonFood Contact Surfaces, modified in the presence of 300 ppm hard water plus 5% organic serum in 60 seconds against:

According to AOAC Use Dilution Test, Lonza Formulation S38 is an effective hospital disinfectant in the presence of 5% organic serum against the following gram negative and gram positive organisms:

According to AOAC Use Dilution Test, Lonza Formulation S38 is an effective broad spectrum general disinfectant in the presence or 5% organic serum against the following organisms:

Lonza Formulation S38 is an effective virucide in the presence of 5% serum against the following viruses:

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- 3) Delete the "Preparation of Use-Solution" table at the top of page 5 because it is appears twice on this page.
- 4) The label must support separate "Foot Spa" directions. Add the following directions to the label:

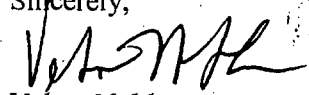
Whirlpool Foot Spa Disinfection Directions: *After using whirlpool foot spa, drain the water and thoroughly clean all hard, nonporous surfaces with soap or detergent. Rinse with water. Saturate surfaces with 2 oz of product per gallon of water to exposed surfaces with cloth, sponge, or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. After unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water.*
- 5) Under "Poultry and Swine Premise Disinfection" on page 7, the 6th statement must be revised by deleting word, "recommended," such that it is in agreement with PR Notice 2000-5, Mandatory Labeling.
- 6) Revise the first statement under "Shoe Bath Sanitizer" directions on page 7 to state "To prevent the cross contamination of organisms into animal areas...."
- 7) Revise the "Mushroom Farm Premise Use" claim on page 3 and the directions on page 7 to be in compliance with PR Notice 2000-5, Mandatory Labeling by deleting the word, "Should" and state, "**Must.**"
- 8) Revise the "Sanitize Barber/Beauty Salon Instruments" directions on page 8 by adding the statement, "Preclean barber/beauty salon instruments."

General Comments

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

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

Sincerely,



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

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

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

Lonza Formulation 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 EPA 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).

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.

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 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.)

(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)

(TYPES OF SURFACES:)

- Use **Lonza Formulation S-38** on washable hard, nonporous surfaces of:
- Appliances, exteriors
 - Basins
 - Bathroom fixtures
 - Bathtubs
 - Cabinets
 - Cages
 - Chairs
 - Coils and drain pans of air conditioning and refrigeration equipment and heat pumps
 - Conductive flooring
 - Counters (countertops)
 - Countertop laminates
 - Desks
 - Doorknobs (and handles)
 - Floors
 - Floors - high speed burnished
 - Foot Spas
 - Garbage cans
 - Highchairs
 - Kennel runs
 - Microwave ovens
 - Mirrors
 - Outdoor (patio) furniture except cushions and wood frames

- Refrigerators, exteriors
- Refrigerated storage and display equipment
- Showers
- (Fiberglass) Shower stalls
- (Fiberglass) Sinks (bathroom, kitchen)
- Stoves (stovetops)
- Tables (picnic tables)
- Telephones
- Toilets
- Toilet bowls
- Toilet bowl surfaces
- Tubs (Fiberglass)
- Tiles, glazed
- Ultrasonic baths
- Urinals
- Walls
- Whirlpool [bathtubs] [tubs] [units]
- Windows

- Non-critical medical device surfaces
- [Medical] [Hospital] Beds
- Bed frames
- Bed rails
- Crutches
- Defibrillators
- Gurneys
- Non-critical [hospital] [medical] equipment surfaces
- [Medical] Examining tables
- [Medical] [Hospital] Lamps
- Rescue tools
- Resuscitators
- [Medical] [Hospital] Scales
- Stands
- Stretchers
- Stethoscopes
- Walkers
- Wheel chairs

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

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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

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 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 1/2 - 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 (¼ - ½ 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))
[FOOT SPAS]:**

After using the [whirlpool (bath) (unit)] [foot spa], drain and refill with fresh water to (just cover the intake valve) (cover the highest jet) (2 inches above the highest jet). Add 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) (foot spa) with a clean swab, brush or sponge with the solution. Treated surfaces must remain wet for 10 minutes. After the (bath) (unit) (foot spa) has been thoroughly disinfected, drain and rinse surfaces with fresh water. Wipe dry with a clean sponge or cloth or allow to air dry. Repeat for heavily soiled units.

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

***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 recommended disinfecting solution for 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, trucks, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

Hatcheries: Use 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 tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots and place in a 1/2 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: 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.

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

STORAGE AND DISPOSAL

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

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

STORAGE AND DISPOSAL

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

Pesticide Storage

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

Pesticide Disposal

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

Container Disposal

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

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