

PM 31

6836-139

11/19/99

Page 189

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

LONZA Inc.
17-17 Route 208
Fair Lawn, NJ 07410-2821

NOV 19 1999

ATTENTION: Ruth Trager

SUBJECT: LONZA Formulation R-82F
EPA Registration Number 6836-139
Your Amendment Dated: August 18, 1999
EPA Received Date: August 23, 1999

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3 (c) (7) (A), is acceptable provided that you:

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

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

A. Revise the Precautionary Statements to include the following: "Wear protective eyewear (goggles, face shield or safety glasses), *protective clothing* and rubber gloves."

B. Include the following in the directions for use section of the label.
"To Clean and Deodorize: Mix ½ ounce per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Let air dry."

CONCURRENCES							
SYMBOL	7510C						
SURNAME	J. J. [Signature]						
DATE	11/18/99						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

C. On page 2, right panel in the fourth section revise as follows: "Lonza Formulation R-82-F *for use* in hospitals, homes..." Also delete the following two sites which are too broad: "institutional facilities" and "public facilities."

D. On page 2, right panel in the fifth section revise as follows: "Lonza Formulation R-82F *for use on the following* washable hard nonporous surfaces: floors..." deleting the word "including" and revise the statement "...heat pumps, conductive flooring and hard nonporous surfaces *made of metal...*" deleting the word "other."

E. On page 4, left panel in the third section revise as follows: move the statements beginning "For sprayer applications, use a ..." and ending "Avoid breathing spray." to immediately follow the statement in the fourth section ending "...thoroughly wetting surfaces with a cloth, mop, sponge or sprayer." Revise the final statement of this section to read "...solution becomes visibly *soiled or diluted.*"

F. On page 4, left panel in the section for use as a toilet bowl cleaner, place the following statement at the beginning of this section "Remove gross filth prior to disinfection."

G. On page 4, right panel in the first section revise as follows: "...per quart of water) to disinfect *hard* nonporous instruments..."

H. On page 5, left panel in the U.S. Public Health Service Food Service Sanitization Recommendations section delete the last statement "Wash thoroughly with soap and water after handling." This statement seems contradictory to the previous statement which instructs the user to let the surfaces which have been sanitized air dry. The users are already advised in the Precautionary Statements to wash (hands) thoroughly with soap and water after handling the product.

I. On page 5, right panel in the first section revise as follows: "Ventilate buildings, *cars, trucks, coops* and ..."

J. On page 5, right panel in the second section revise as follows: "...per gallon of water to treat *the following hard nonporous surfaces:* hatchers, setters..." Add the following statement to the end of this section: "Then allow to air dry."

K. On page 6 in the first section revise as follows: "For cleaning and disinfecting *the following* hard nonporous surfaces: equipment *not used for animal food or water*, utensils..." deleting the word "including."

CONCURRENCES

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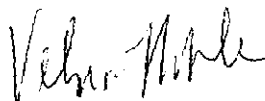
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

3. Submit two (2) copies of your final printed labeling before you release the product for shipment.

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

A stamped copy of the labeling is enclosed for your records. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



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

Enclosure

7510C:T.Lantz:11/18/98:6836-139b

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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

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) and rubber gloves. Harmful if swallowed and/or if absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol.

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

(If container size is 5 gallons or larger, use the following Environmental Hazards statements.)

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.

(If container is one gallon or less, use the following Storage and Disposal statements.)

STORAGE AND DISPOSAL

Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Discard in trash or recycle.

(If container is greater than one gallon, use the following storage and disposal statements.)

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). The 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.

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

NOV 19 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 6836-139

PAGE 1

LONZA FORMULATION R-82F

One-Step Disinfectant – Cleaner – Sanitizer - Fungicide
Mildewstat - Virucide* - Deodorizer
for Homes, Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness
(calculated as CaCO₃) in the presence of 5% serum
contamination

Formulated for Effective Poultry Premise Sanitation
Formulated for Effective Swine Premise Sanitation
Formulated for Effective Farm Premise Use

Active Ingredients:

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

**KEEP OUT OF REACH OF CHILDREN
DANGER
(PELIGRO)**

SEE LEFT/ SIDE/ RIGHT/ BACK PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Reg. No. 6836-139

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

Net Contents (insert container size here)

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

This product contains no phosphorous.

When used as directed, LONZA FORMULATION R-82F will clean and deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas and other places where bacterial growth can cause malodors.

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

LONZA FORMULATION R-82F is recommended for use in federally inspected meat and poultry plants. USDA category D2 - a sanitizer for all surfaces not always requiring a rinse.

LONZA FORMULATION R-82F delivers unsurpassed non-acid cleaning performance in an economical concentrate. Effective, yet economical, LONZA FORMULATION R-82F is a heavy duty disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step.

LONZA FORMULATION R-82F is an economical concentrate that can be diluted for use with a mop and bucket, trigger sprayers, sponge or by soaking.

LONZA FORMULATION R-82F improves labor results by effectively controlling malodors.

LONZA FORMULATION R-82F delivers non-acid disinfectant performance in an economical concentrate.

LONZA FORMULATION R-82F is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

Use LONZA FORMULATION R-82F to clean and disinfect finished floors, sinks and tubs.

LONZA FORMULATION R-82F is for use in kitchens, bathrooms and other household areas.

LONZA FORMULATION R-82F 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.

LONZA FORMULATION R-82F will not leave grit or soap scum.

LONZA FORMULATION R-82F is a versatile disinfectant and sanitizer for Veterinarian, Animal Care and Farm Premise applications.

LONZA FORMULATION R-82F is recommended for use on coils and drain pans of air conditioning and refrigeration equipment and heat pumps. Follow the directions for sanitization of non-food contact surfaces.

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LONZA FORMULATION R-82F is a versatile cleaner and broad spectrum disinfectant formulated for use only on non-critical instruments in Ultrasonic Baths (Ultrasonic cleaning units).

Use LONZA FORMULATION R-82F to clean and disinfect nonporous salon (barber) tools and instruments: combs, brushes, scissors, blades and manicure instruments.

Use LONZA FORMULATION R-82F to clean and disinfect finished floors. Can be applied with damp mop or autoscrubber. Cleans and disinfects without dulling gloss.

To limit gloss reduction use LONZA FORMULATION R-82F at 1/2 per gallon.

Do not use on floor finish at 2 oz. per gallon.

LONZA FORMULATION R-82F may be used in hospitals, homes, medical and dental offices, nursing homes, day care centers, nurseries, restaurants, bars, cafeterias, institutional kitchens, convenience stores, food storage areas, institutional facilities, public rest rooms, institutions, schools, athletic facilities, camp grounds, public facilities, food processing plants, USDA inspected food processing facilities, dairy farms, hog farms, poultry and turkey farms, kennels, pet animal quarters, zoos, pet shops, animal laboratories, transportation terminals, hotels and motels, business and office buildings, boats, ships, campers, trailers, mobile homes, cars, buses, trains, taxis, airplanes.

LONZA FORMULATION R-82F may be used on washable hard, nonporous surfaces including floors, walls, countertops, stovetops, sinks, appliances, refrigerators, cabinets, highchairs, garbage cans, refrigerated storage and display equipment, tables, picnic tables, outdoor furniture, chairs, desks, telephones, bed frames, doorknobs, shower stalls, tubs and tiles, whirlpool bathtubs, toilets, bathtubs, shower stalls, sinks, urinals, toilet bowls, toilet bowl surfaces, related fixtures, kennel runs, cages, coils and drain pans of air conditioning and refrigeration equipment and heat pumps, conductive flooring and other hard nonporous surfaces such as metal, glazed porcelain, glazed ceramic, fiberglass, plastic, porcelain lining, stainless steel, enameled surfaces, finished woodwork, Formica®, vinyl and plastic upholstery.

LONZA FORMULATION R-82F is recommended for Poultry Premise Sanitation (Hatcheries): Egg Receiving Area, Egg Holding Area; Setter Room, Tray Dumping Area, Trays, Buggies, Racks, Egg Flats, Chick Holding Room, Hatchery Room, Chick Processing Area, Chick Loading Area, Poultry Buildings, Ceilings, Sidewalls and Floors, Drinkers and other Poultry House related equipment, and all other hard nonporous surfaces in the Hatchery environment.

LONZA FORMULATION R-82F is recommended for Swine Premise Sanitation: Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and areas, Nursery blocks, Creep area, Chutes.

LONZA FORMULATION R-82F 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.

LONZA FORMULATION R-82F is an effective one-step sanitizer-cleaner for use on food contact as well as non-food contact surfaces.

LONZA FORMULATION R-82F kills *Pseudomonas aeruginosa* (*Pseudomonas*), *Pseudomonas cepacia* (*Pseudomonas*), *Staphylococcus aureus* (*Staph*), *Methicillin-Resistant Staphylococcus aureus* (MRSA), *Staphylococcus aureus* (Multi-Drug Resistant), *Staphylococcus aureus* Vancomycin Intermediate Resistant - VISA, *Salmonella choleraesuis* (*Salmonella*), *Salmonella schottmuelleri* (*Salmonella*), *Salmonella typhi* (*Salmonella*), *Streptococcus pyogenes* (*Strep*), *Streptococcus faecalis* (*Enterococcus faecalis*), *Enterococcus faecalis* (Vancomycin resistant - VRE), *Vibrio cholerae*, *Acinetobacter baumannii* (*Acinetobacter*), *Brevibacterium ammoniagenes* (*Brevibacterium*), *Enterobacter aerogenes*, *Escherichia coli* (*E. coli*), *Klebsiella pneumoniae* (*Klebsiella*), *Serratia marcescens*, *Shigella dysenteriae* (*Shigella*), *Adenovirus Type 5* (*Adenovirus*), HIV-1 (the AIDS Virus), *Herpes Simplex Virus Types 1 & 2* (*Herpes*), *Influenza Type A / Brazil* (*Influenza*), *Vaccinia* (*Pox Virus*), *Trichophyton mentagrophytes* (the Athlete's Foot Fungus).

LONZA FORMULATION R-82F eliminates 99.9% of *Staphylococcus aureus* and *Klebsiella pneumoniae* in 60 seconds.

LONZA FORMULATION R-82F meets AOAC Use-Dilution Test Standards for hospital disinfectants.

LONZA FORMULATION R-82F meets EPA's Sanitizer Test standards for non-food contact sanitizers.

LONZA FORMULATION R-82F is effective against Avian Influenza Virus, Avian Infectious Bronchitis Virus, Pseudorabies Virus, Canine Distemper Virus, Newcastle's Disease Virus.

LONZA FORMULATION R-82F is a Hospital Use Disinfectant at 1:256 dilution (½ oz. per gallon), Bactericidal according to the current AOAC Use-Dilution Test Method and Virucidal* according to the virucidal qualification modified in the presence of 400 ppm hard water plus 5% organic serum against:

<i>Pseudomonas aeruginosa</i>	<i>Brevibacterium ammoniagenes</i>
<i>Pseudomonas cepacia</i>	<i>Enterobacter aerogenes</i>
<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>
<i>Staphylococcus aureus</i> Methicillin-Resistant - MRSA	
<i>Staphylococcus aureus</i> Multi-Drug Resistant	
<i>Staphylococcus aureus</i> Vancomycin Intermediate Resistant - VISA	
<i>Salmonella choleraesuis</i>	<i>Klebsiella pneumoniae</i>
<i>Salmonella schottmuelleri</i>	<i>Serratia marcescens</i>
<i>Salmonella typhi</i>	<i>Shigella dysenteriae</i>
<i>Streptococcus pyogenes</i>	<i>Vibrio cholerae</i>
<i>Enterococcus faecalis</i> (Vancomycin resistant - VRE)	
<i>Acinetobacter baumannii</i>	

*Herpes Simplex Virus Types 1 & 2

*HIV-1 (AIDS Virus)

*Influenza Type A / Brazil

*Vaccinia (Pox Virus)

*Adenovirus Type 5 at 1:64 dilution (2 oz. per gallon)

LONZA FORMULATION R-82F is a sanitizer for hard nonporous non-food contact surfaces at 1:1024 dilution (200 ppm active, ½ oz. per 4 gallons) according to the method for Sanitizers - Non-Food Contact Surfaces, modified in the presence of 500 ppm hard water plus 5% organic serum in 60 seconds against:

<i>Klebsiella pneumoniae</i>	<i>Staphylococcus aureus</i>
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LONZA FORMULATION R-82F is a mildewstat at 1:256 dilution (½ oz. per gallon) and will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard nonporous surfaces.

ACCEPTED
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in EPA Letter Dated:

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Under the Federal Insecticide,
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registered under EPA Reg. No. 6836-139

DIRECTIONS FOR USE

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

Preparation of Use-Solution:

Add (mix) ½ oz. per gallon of water (1:256) to disinfect hard, nonporous surfaces.

For heavy duty use, add (mix) 2 oz. per gallon of water (1:64) to disinfect hard, nonporous surfaces.

Disinfection / Virucidal* / Fungicidal / Mold and Mildew Control Directions:

Apply use-solution to hard, nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge or sprayer. Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop. Prepare a fresh solution daily or when use solution becomes visibly dirty.

For heavily soiled areas, a preliminary cleaning is recommended.

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

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.

Non-Acid Toilet Bowl Disinfectant / Cleaner Directions:**From Concentrate:**

Add ½ oz. to the bowl and mix. Brush over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

From Use Solution:

Empty toilet bowl or urinal and apply ½ oz. per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or mechanical spray. Allow to stand for 10 minutes and flush.

For Heavy Duty Use:

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

FOR USE ON FINISHED FLOORS: To limit gloss reduction use LONZA FORMULATION R-82F at ½ oz. per gallon.

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Salon (Barber) Instruments and Tools Disinfection / Virucide / Fungicide Directions:

Mix 1 oz. (30 ml) of LONZA FORMULATION R-82F per gallon of water (¼ oz. [7.5 ml] of LONZA FORMULATION R-82F per quart of water) to disinfect nonporous instruments and tools. Completely immerse combs, brushes, rollers, manicure and other salon instruments and tools for 10 minutes. For heavily soiled instruments and tools, a preliminary cleaning is required. Rinse thoroughly and dry before use. Fresh solution should be prepared daily or more often if solution becomes diluted or soiled.

Note: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried and kept in a clean, non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

FUNGICIDAL DIRECTIONS:

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities, follow disinfection directions. LONZA FORMULATION R-82F at ½ oz. per gallon (1:256) in 250 ppm hard water and 5% serum is an effective one-step fungicide against *Trichophyton mentagrophytes*.

LONZA FORMULATION R-82F at ½ oz. per gallon of water (1:256), in 400 ppm hard water is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used on pre-cleaned surfaces.

MOLD AND MILDEW CONTROL. At ½ oz. per gallon, LONZA FORMULATION R-82F will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow disinfection instructions. Allow to dry on surface. Repeat when mildew growth returns.

***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 latex gloves, gowns, masks and eye protection.

CLEANING PROCEDURE: Blood and other body fluids containing HIV must be thoroughly cleaned from surfaces and objects before application of LONZA FORMULATION R-82F.

CONTACT TIME: Leave surface wet for 1 minute (60 seconds) with ½ oz. per gallon use-solution. Use a 10 minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

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

ULTRASONIC BATH DISINFECTANT DIRECTIONS:

Use LONZA FORMULATION R-82F to disinfect hard nonporous objects compatible with Ultrasonic cleaning units.

Pour fresh solution at ½ oz. per gallon of water (1:256) directly into bath chamber. Preclean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturer's directions.

Remove objects and wash with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use.

SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS:

Add (mix) ½ oz. per 4 gallons of water to sanitize hard nonporous surfaces. Treated surfaces must remain wet for 60 seconds.

SANITIZING FOOD CONTACT SURFACES: Use ½ oz. Lonza Formulation R-82F per 4 - 5 ½ gallons of water (200 - 150 ppm) for sanitizing and cleaning of equipment and utensils in food processing, dairy industry, bars, restaurants, institutional kitchens, meat and poultry processing plants and farms. Do not rinse with water.

heavily soiled equipment or utensils, prewash with Lonza Formulation R-82F. Rinse with clean water then apply recommended dilution of Lonza Formulation R-82F with a cloth, coarse mechanical spray device (spray surface until thoroughly wetted) or immersion. Treated surfaces must remain wet for one minute. Prepare a fresh solution for every use. DO NOT reuse mechanically applied use solution for sanitizing. Lonza Formulation R-82F can be used in accordance with the U.S. Public Health Service food service sanitization recommendations.

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

CLEANING AND SANITIZING: Equipment and utensils shall be thoroughly pre-flushed or pre-scraped and when necessary, pre-soaked to remove gross food particles and soil.

1. Thoroughly wash equipment and utensils in hot detergent solution.
2. Rinse utensils and equipment thoroughly with clean water.
3. Sanitize equipment and utensils by immersion in a ½ oz. per 4 - 5 ½ gallon solution of Lonza Formulation R-82F (200 - 150 ppm active) for at least 60 seconds at a temperature of 75°F.
4. For equipment and utensils too large to sanitize by immersion, apply a ½ oz. per 4 - 5 ½ gallon solution of Lonza Formulation R-82F (200 - 150 ppm active) by rinsing, spraying or swabbing until thoroughly wetted.
5. Allow sanitized surface to drain and air dry. Do not rinse

Wash thoroughly with soap and water after handling.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

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Under the Federal Insecticide,
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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 ½ oz. of LONZA FORMULATION R-82F 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, 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 ½ oz. of LONZA FORMULATION R-82F 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.

Vehicles: Clean all vehicles including mats, crates, cabs and wheels with high pressure water and LONZA FORMULATION R-82F. Use ½ oz. of LONZA FORMULATION R-82F per gallon of water to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more.

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 ½ oz. per gallon of water solution for 60 seconds prior to entering area. Change the solution in the bath daily or when 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 ½ oz. per gallon of water solution. Scrub to loosen all soils. Surfaces must remain wet for 10 minutes, then thoroughly rinsed with potable water before operations are resumed.

Veterinary Practice / Animal Care / Animal Laboratory / Zoos / Pet Shop / Kennels Disinfection Directions: For cleaning and disinfecting hard nonporous surfaces including equipment, utensils, instruments, cages, kennels, stables, catteries, etc. 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. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of ½ oz. of LONZA FORMULATION R-82F per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

Farm Premise Use:

Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of ½ oz. of LONZA FORMULATION R-82F per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

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