

6836-140

7/2/2001

Page 1 of 7

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

JUL 02 2001

ATTENTION: Ruth Trager

SUBJECT: LONZA Formulation S-21F  
EPA Registration Number 6836-140  
Your Amendment Dated: April 4, 2001  
EPA Received Date: April 9, 2001

The amendment referred to above, submitted in connection with registration under FIFRA as amended, is acceptable provided that you:

1. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:

Revise the statement on page 2, right column, sixth section to read as follows:  
"...and other nonporous cutting boards and chopping blocks; coolers, ice chests; *refrigerator bins used for meat, fruit, vegetables and eggs*; refrigerated storage and display equipment..."

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

7510C:T.Lantz:7/2/01:6836-140

## CONCURRENCES

SYMBOL	7510C						
SURNAME	S. Lantz						
DATE	7/2/01						

2 8 7

**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 goggles or face shield, rubber gloves and protective clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash 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 the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

**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 the 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

*(If the container size is 5 gallons or more, use the following Environmental Hazards statement:)*

**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.

**LONZA FORMULATION S-21F**

DISINFECTANT, CLEANER, SANITIZER, FUNGICIDE  
MILDEWSTAT, VIRUCIDE\*, DEODORIZER  
WITH ORGANIC SOIL TOLERANCE  
FOR HOSPITALS, INSTITUTIONAL AND INDUSTRIAL USE

EFFECTIVE IN HARD WATER UP TO 400 PPM  
HARDNESS (CALCULATED AS CaCO<sub>3</sub>)  
N THE PRESENCE OF 5% SERUM CONTAMINATION

FORMULATED FOR EFFECTIVE POULTRY PREMISE  
SANITATION

FORMULATED FOR EFFECTIVE SWINE PREMISE  
SANITATION

**Active Ingredients:**

Octyl decyl dimethyl ammonium chloride.....	1.650%
Dioctyl dimethyl ammonium chloride.....	0.660%
Didecyl dimethyl ammonium chloride.....	0.990%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride.....	2.200%
Inert Ingredients.....	94.500%
Total.....	100.000%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

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

EPA Reg. No. 6836-140

EPA Est. No. *(as indicated on container)*

NET CONTENTS: *(insert the container size here)*

MANUFACTURED BY:

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 2 2001

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

6836-140

This product contains no phosphates or phosphorous compounds.

When used as directed, LONZA FORMULATION S-21F 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.

Cross-contamination is of major housekeeping concern. LONZA FORMULATION S-21F has been formulated to aid in the reduction of cross-contamination in not only in hospitals, but in schools, institutions and industry.

Use Lonza Formulation S-21F in federally inspected Meat & Poultry Plants as a food contact sanitizer on all surfaces not requiring a rinse.

LONZA FORMULATION S-21F delivers non-acid disinfectant and cleaning performance in an economical concentrate.

LONZA FORMULATION S-21F cleans, disinfects and deodorizes in one labor saving step.

LONZA FORMULATION S-21F can be used with a mop and bucket, trigger sprayer, sponge or by soaking.

LONZA FORMULATION S-21F effectively controls malodors.

Use LONZA FORMULATION S-21F for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

Use LONZA FORMULATION S-21F to clean and disinfect finished floors, sinks and tubs.

Use LONZA FORMULATION S-21F in kitchens, bathrooms and other household areas.

LONZA FORMULATION S-21F is formulated for use in daily maintenance programs with a balance of detergents and biocides that deliver effective cleaning, disinfecting and malodor control.

LONZA FORMULATION S-21F will not leave grit or soap scum.

LONZA FORMULATION S-21F is a disinfectant and sanitizer for Veterinarian, Animal care and Farm Premise applications.

LONZA FORMULATION S-21F is a cleaner and broad spectrum disinfectant formulated for use only on non-critical instruments in Ultrasonic Baths (Ultrasonic cleaning units).

LONZA FORMULATION S-21F is a one-step, disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1), fungicidal, and inhibits the growth of mold and mildew, and their odors, when used as directed.

LONZA FORMULATION S-21F is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.

LONZA FORMULATION S-21F meets AOAC efficacy standards for hospital disinfectants.

LONZA FORMULATION S-21F meets AOAC efficacy standards for hard nonporous surface sanitizers.

LONZA FORMULATION S-21F is a proven "one-step" disinfectant - cleaner - sanitizer - fungicide - mildewstat - virucide\* which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.

LONZA FORMULATION S-21F 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 S-21F to clean and disinfect nonporous salon / barber tools and instruments: combs, brushes, scissors, blades and manicure instruments.

Use LONZA FORMULATION S-21F 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 S-21F at 2 oz. per gallon.

Do not use on floor finish at 8 oz. per gallon.

Use LONZA FORMULATION S-21F in homes, hospitals, medical and dental offices, nursing homes, day care centers, nurseries, restaurants, bars, cafeterias, institutional kitchens, food preparation and storage areas, convenience stores, institutional and public facilities, public rest rooms, schools, colleges, athletic facilities, locker rooms, dressing rooms, shower and bath areas, exercise facilities, camp grounds, play grounds, 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, factories, business and office buildings, boats, ships, campers, trailers, mobile homes, cars, buses, trains, taxis, airplanes and ultrasonic baths.

Use LONZA FORMULATION S-21F on washable, hard, nonporous surfaces: walls, floors, conductive flooring, countertops, stovetops, sinks, appliances, refrigerators, tables, picnic tables, dishes, glassware, silverware, cutlery and other eating and cooking utensils; plastic and other nonporous cutting boards and chopping blocks; coolers, ice chests; refrigerator meat, fruit, vegetable and egg bins; refrigerated storage and display equipment, Tupperware®, kitchen equipment, food processors, blenders, slurry machines, bottling or premix dispensing equipment, exhaust fans, highchairs, cabinets, garbage cans, outdoor furniture, chairs, desks, telephones, door knobs, shower stalls, bathtubs, sinks, tubs and glazed tiles, whirlpool bathtubs, toilets, urinals, toilet bowls, toilet bowl surfaces, bathroom fixtures, glazed porcelain tiling, kennel runs, cages, and other hard nonporous surfaces made of metal, stainless steel, glazed porcelain, glazed ceramic, sealed stone, fiberglass, plastic (such as polystyrene, polypropylene), enamel, finished woodwork, Formica®, vinyl and plastic upholstery.

Use LONZA FORMULATION S-21F 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 all other Poultry House related equipment and surfaces in the Hatchery environment.

Use LONZA FORMULATION S-21F for Swine Premise Sanitation: Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and areas, Nursery, Block, Creep Area, Chutes.

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with COMMENTS  
in EPA Letter Dated:

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Under the Federal Insecticide,  
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**LONZA FORMULATION S-21F** is a one-step (Hospital use) disinfectant at 1:64 dilution (2 oz. per gallon of water), 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:

**(Bacteria:)**

*Pseudomonas aeruginosa* (*Pseudomonas*)  
*Staphylococcus aureus* (*Staph*)  
*Salmonella choleraesuis* (*Salmonella*)

*Brevibacterium ammoniagenes* (*Brevibacterium*)  
*Enterobacter aerogenes*  
*Enterococcus faecalis* (*Enterococcus*)  
*Escherichia coli* (*E. coli*)  
*Klebsiella pneumoniae* (*Klebsiella*)  
*Pseudomonas cepacia* (*Pseudomonas*)  
*Salmonella schottmuelleri* (*Salmonella*)  
*Salmonella typhi* (*Salmonella*)  
*Serratia marcescens* (*Serratia*)  
*Shigella dysenteriae* (*Shigella*)  
*Staphylococcus aureus* Methicillin-Resistant (MRSA)  
*Streptococcus pyogenes* (*Strep*)  
*Vibrio cholerae*

**(Viruses:)**

\*Herpes Simplex Virus Types 1 & 2 (Herpes)  
\*HIV-1 (the AIDS Virus)  
\*Influenza Type A / Brazil (Influenza)  
\*Vaccinia (Pox Virus)  
\*Adenovirus Type 5 (Adenovirus) at 1:64 dilution (2 oz. per gallon)

**(Animal Viruses:)**

Avian Influenza virus  
Avian Infectious Bronchitis Virus  
Canine Distemper Virus  
Newcastle's Disease Virus  
Pseudorabies Virus

**(Fungi:)**

*Trichophyton mentagrophytes* (the Athlete's Foot Fungus).  
*Aspergillus niger*

**LONZA FORMULATION S-21F** is a sanitizer for porous and nonporous, non-food contact surfaces at 1:256 dilution (200 ppm active) (½ oz. per gallon) according to the method for Sanitizers - Non-Food Contact surfaces at 500 ppm hard water, and 5% organic serum in 60 seconds against:

*Klebsiella pneumoniae*      *Staphylococcus aureus*

**Lonza Formulation S-21F** meets AOAC Germicidal & Detergent standards for previously cleaned food-contact surfaces.

**LONZA FORMULATION R-82F** is an effective sanitizer for use on food contact surfaces at ½ oz. per gallon or 1 oz. per 2 ¾ gallons of water (200 - 150 ppm active quat) in waters up to 600 ppm hardness in 60 seconds against:

*Escherichia coli*  
*Staphylococcus aureus*

**Dilution:**

Disinfection (1:64) ..... 2 oz. per gallon of water  
Sanitizer: (1:352) ..... 1 oz. per 2 ¾ gallon  
..... (150 ppm active)  
Sanitizer: (1:256) ..... ½ oz. per gallon of water  
..... (200 ppm active)

**DIRECTIONS FOR USE**

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

**Preparation of Disinfectant Use-Solution:**

Add (mix) 2 oz. per gallon of water.

For heavy duty use, add (mix) 8 oz. per gallon of water.

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.

**DISINFECTION / \*VIRUCIDAL / CLEANING / DEODORIZING DIRECTIONS:** Apply use-solution to hard nonporous surfaces with a cloth, mop, sponge, sprayer or by immersion, thoroughly wetting surfaces.

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

Treated surfaces must remain wet for 10 minutes. Wipe dry with a cloth, sponge or mop or allow to air dry.

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

For heavily soiled areas, a preliminary cleaning is recommended.

(For labels that list medical premises and / or 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.

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**\*KILLS HIV-1 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 S-21F.

**Contact time:** Leave surface wet for 1 minute. Use a 10-minute contact time for all other viruses, bacteria and fungi listed.

**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.

**FUNGICIDAL DIRECTIONS:**

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities follow disinfection directions.

At 2 oz. per gallon of 400 ppm hard water, LONZA FORMULATION S-21F is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on precleaned surfaces.

At 2 oz. per gallon of 250 ppm hard water and 5% serum, LONZA FORMULATION S-21F is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus),

**MOLD AND MILDEW CONTROL:** At 2 oz. per gallon, LONZA FORMULATION S-21F will effectively inhibit the growth of mold and mildew, and the odors caused by them, when applied to hard, non-porous surfaces (as indicated in the disinfection directions). Allow to dry on surface and repeat when mildew growth returns.

**NON-ACID TOILET BOWL DISINFECTANT / CLEANER APPLICATION:**

**From concentrate:** Add 1 oz. of concentrate to the toilet bowl water (0.75 gallons) and mix. Brush or swab thoroughly over exposed surfaces and under the rim with a bowl brush, cloth, mop or sponge. Allow to stand for 10 minutes and flush.

**From Use-dilution:** Empty toilet bowl or urinal and apply a 2 oz. per gallon use-solution to exposed surfaces and under the rim with a cloth, mop, sponge or coarse 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 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-21F at 2 oz. per gallon. Apply with a damp mop or autoscrubber.

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

Mix 4 oz. of LONZA FORMULATION S-21F per gallon of water or 1 oz. per quart (32 oz.) of water to disinfect nonporous instruments and tools. Completely immerse brushes, combs, 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 reuse. Prepare fresh solution daily or more often if solution becomes visibly 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-21F to disinfect hard, nonporous non-critical instruments with Ultrasonic cleaning units. Pour fresh use-solution directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes according to manufacturer's use directions.

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

**SANITIZING NON-FOOD CONTACT SURFACES:**

Add (mix) ½ oz. per gallon of water to sanitize hard, nonporous surfaces. Treated surfaces must remain wet for 60 seconds. Allow to air dry.

**SANITIZING FOOD CONTACT SURFACES:** Use (1 oz. per 2 ¼ gallons water - 150 ppm active) or (½ oz. per gallon of water - 200 ppm active) of LONZA FORMULATION S-21F for sanitizing and cleaning of equipment and utensils in food processing, dairy industry, bars, restaurants, institutional kitchens, meat and poultry processing plant and farms.

Prior to application, remove gross food particles and soil by a pre-wash, pre-scrub or pre-flush and when necessary pre-soak. Thoroughly wash or flush equipment or utensils with a good detergent or compatible cleaner followed by a potable water rinse before applying sanitizer. Apply use-solution to pre-cleaned hard nonporous surfaces with a cloth, mop, sponge, coarse sprayer or by immersion. Treated surfaces must remain wet for 60 seconds (1 minute). Drain thoroughly and allow to air dry before reuse. Prepare a fresh solution for each use.

**DO NOT** reuse mechanically applied use solution for sanitizing.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
JUL 2 2001

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 6836-140

LONZA FORMULATION S-21F can be used in accordance with the U.S. Public Health Service food service sanitation recommendations.

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

**CLEANING AND SANITIZING:** Equipment and utensils must 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 a hot detergent solution.
2. Rinse utensils and equipment thoroughly with clean water.
3. Sanitize equipment and utensils by immersion in a (1 oz. per 2 3/4 gallon - 150 ppm active) or (1/2 oz. per gallon of water - 200 ppm active) solution of **LONZA FORMULATION S-21F** for at least 60 seconds at a Temperature of 75 F.
4. For equipment and utensils too large to sanitize by immersion, apply a (1 oz. per 2 3/4 gallon - 150 ppm active) or (1/2 oz. per gallon of water - 200 ppm active) solution of **LONZA FORMULATION S-21F** by rinsing, spraying, or swabbing until thoroughly wetted.
5. Allow sanitized surface to drain and air dry. Do not rinse.

**WISCONSIN STATE BOARD OF HEALTH  
DIRECTIONS FOR EATING ESTABLISHMENTS**

1. Scrape and pre-wash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with clean water.
4. Sanitize in a use-solution of (1 oz. of Lonza Formulation S-21F per 2 3/4 gallon of water - 150 ppm active) or (1/2 oz. of Lonza Formulation S-21F per gallon of water - 200 ppm quat) (or equivalent dilution). Immerse all utensils for at least two minutes or for contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air-dry.

**POULTRY AND SWINE PREMISE DISINFECTION:**

Remove all animals and feeds from premises, vehicles, trucks, 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 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 2 oz. of **LONZA FORMULATION S-21F** 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, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**Hatcheries:** Use 2 oz. of **LONZA FORMULATION S-21F** 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-21F**. Use 2 oz. of concentrate 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 use-solution for 60 seconds prior to entering area. Change the solution in the bath daily or more often if the solution appears dirty.

**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. Saturate all surfaces with a use-solution of 2 oz. per gallon of water. Scrub to loosen all soils. Surfaces must remain wet for 10 minutes, then thoroughly rinsed with potable water before operations are resumed.

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**VETERINARY PRACTICE / ANIMAL CARE / ANIMAL  
LABORATORY / ZOOS / PET SHOP / KENNELS  
DISINFECTION DIRECTIONS:**

For cleaning and disinfecting the following hard nonporous surfaces: equipment not used for animal food or water, 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 2 oz. of LONZA FORMULATION S-21F 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:**

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 2 oz. of LONZA FORMULATION S-21F 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.

(Note to reviewer: If the container size is one gallon or less, the following storage and disposal statements will be used.)

**STORAGE AND DISPOSAL**

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

(Note to reviewer: If the container size 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**

Store in original container in locked storage areas inaccessible to children. 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 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.

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