

PM

31

6836-75

page 179

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

243652

## Application for Pesticide - Section I

1. Company/Product Number 6836-75	2. EPA Product Manager Marion Johnson	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Lonza Formulation S-21	PM# 31	
5. Name and Address of Applicant (Include ZIP Code) Lonza Inc. 17-17 Route 208 Fair Lawn, NJ 07410  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), 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.)

As per PR Notice 95-2, adding graphics to describe use of "bowl cleaning tool".  
One (1) copy of marked label is attached. In addition, notification certification statement is attached.

## Section - III

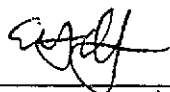
1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> 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 Eliot I. Harrison	Title Agent for Lonza	Telephone No. (include Area Code) (202) 393-3903	
Certification 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 (Stamped) 12-30-97
2. Signature 	3. Title Agent for Lonza		
4. Typed Name Eliot I. Harrison	5. Date December 30, 1996		

CERTIFICATION STATEMENT

This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 C.F.R. §152.46 and no other changes have been made to the labeling or the CSF of the 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 if this notification is not consistent with the terms of PR Notice 95-2 and 40 C.F.R. §152.46 this product may be in violation of FIFRA and I may be subject to enforcement actions and penalties under sections 12 and 14 of FIFRA.



12/30/82

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Eliot I. Harrison, Agent for Lonza

Precautionary Statements  
Hazards to Humans and Domestic Animals

**DANGER**

Keep out of reach of children. Corrosive. Causes eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed.

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**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.

**STORAGE AND DISPOSAL**

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

Triple rinse (or equivalent). The 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 Container: 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.

For household products, use this container disposal statement.)  
Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

**LONZA**  
**FORMULATION S-21**

Disinfectant-Cleaner-Sanitizer-Fungicide-Mildewstat-  
Virucide\*-Deodorizer

for Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness  
(Calculated as CaCO<sub>3</sub>) in 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	1.65%
Dioctyl dimethyl ammonium chloride	0.66%
Didecyl dimethyl ammonium chloride	0.99%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride	2.20%
<u>Inert Ingredients</u>	94.50%
	100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER PELIGRO**

**SEE SIDE PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS**

EPA Registration No.

6836-75

EPA Establishment No.

6836-IL-1

Net Contents

Manufactured by:

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

This product contains no phosphorous.

When used as directed, **LONZA Formulation S-21** will clean and deodorize surfaces in rest room 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-21** has been formulated to aid in the reduction of cross-contamination not only in hospitals, but in schools, institutions and industry.

**LONZA Formulation S-21** delivers non-acid cleaning performance in an economical (2 ounce per gallon) dilutable formula.

**LONZA Formulation S-21** cleans, disinfects and deodorizes in one labor-saving step.

**LONZA Formulation S-21** can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

**LONZA Formulation S-21** effectively controls malodors.

**LONZA Formulation S-21** delivers non-acid disinfectant performance in an economical (2 ounce per gallon) dilutable formula.

**LONZA Formulation S-21** is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures, and toilet bowls.

Use **LONZA Formulation S-21** to clean and disinfect Finished Floors, Sinks, Tubs.

**LONZA Formulation S-21** is for use in kitchens, bathrooms and other household areas.

**LONZA Formulation S-21** 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 S-21** will not leave grit or soap scum.

**LONZA Formulation S-21** is a Disinfectant & Sanitizer for Veterinarian, Animal Care, and Agricultural applications.

**LONZA Formulation S-21** is recommended for use on exhaust fans, metal ducts and filters, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.

**LONZA Formulation S-21** is a cleaner and broad spectrum disinfectant formulated for use in Ultrasonic Baths (Ultrasonic cleaning units).

Use **LONZA Formulation S-21** to clean and disinfect water, non-porous salon (barber) tools and instruments: combs, brushes, scissors, blades, and manicure instruments.

Use **LONZA Formulation S-21** to clean and disinfect Finished Floors. Apply with damp mop or autoscrubber. Cleans and disinfects without dulling gloss.

To limit gloss reduction, use **LONZA Formulation S-21** at 2 ounces per gallon.

Not to be used on floor finish at 8 ounces per gallon.

**LONZA Formulation S-21** may be used in hospitals, homes, medical and dental offices, nursing homes, day care centers, nurseries, restaurants, restaurants and bars, cafeterias, institutional kitchens, convenience stores, crime scenes, food storage areas, institutional facilities, public rest rooms, institutions, schools, athletic facilities, camp grounds, play grounds, public facilities, food processing plants, 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.

**LONZA Formulation S-21** may be used on washable hard non-porous surfaces including countertops, stovetops, sinks, appliances, refrigerators, tables, picnic tables, outdoor furniture, chairs, desks, telephones, highchairs, bed frames, washable walls, cabinets, doorknobs, telephones, shower stalls, tubs and tiles, whirlpool bath tubs, toilets, portable toilets, porcelain tiling, garbage cans, exhaust fans, metal ducts and filters, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps, stainless steel, enameled surfaces, woodwork, Formica, vinyl, leather and plastic upholstery, bathtubs, shower stalls, sinks, urinals, toilet bowls, toilet bowl surfaces, related fixtures, walls, kennel runs, cages, floors, conductive flooring and other hard non-porous surfaces (such as metal, stainless steel, glazed porcelain, ceramic, fiberglass, stone and plastic).

**LONZA Formulation S-21** 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 all other Poultry House related Equipment, and all other surfaces in the Hatchery Environment.

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

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

**LONZA Formulation S-21** 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, exercise facilities.

**LONZA Formulation S-21** kills *Pseudomonas aeruginosa* (*Pseudomonas*), *Staphylococcus aureus* (*Staph*), Methicillin Resistant *Staphylococcus aureus* (MRSA), *Salmonella choleraesuis* (*Salmonella*), *Escherichia coli* (*E. coli*), *Klebsiella pneumoniae* (*Klebsiella*), *Salmonella typhi* (*Salmonella*), *Salmonella schottmuelleri* (*Salmonella*), *Serratia marcescens* (*Serratia*), *Shigella dysenteriae* (*Shigella*), *Streptococcus faecalis* (*Enterococcus faecalis*), *Streptococcus pyogenes* (*Strep*), *Brevibacterium ammoniagenes* (*Brevibacterium*), HIV-1 (the AIDS virus), Herpes Simplex Virus Types 1&2 (Herpes), Influenza Type A/Brazil (Influenza), Adenovirus Type 5 (Adenovirus), Vaccinia (Pox virus), *Trichophyton mentagrophytes* (the Athlete's Foot Fungus).

**LONZA Formulation S-21** reduces 99.99% of *Staphylococcus aureus*, and *Klebsiella pneumoniae* in 60 seconds.

**LONZA Formulation S-21** 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, exercise facilities.

**LONZA Formulation S-21** meets AOAC efficacy standards for hospital disinfectants.

**LONZA Formulation S-21** meets AOAC efficacy standards for hard surface sanitizers.

**LONZA Formulation S-21** is effective against Avian Influenza virus, Avian Infectious Bronchitis virus, Pseudorabies virus, Canine Distemper virus, Newcastle's Disease virus.

**LONZA Formulation S-21** is a Hospital Disinfectant at 1:64 dilution (2 ounces per gallon), Bactericidal according to the AOAC Use-Dilution Test method, Fungicidal according to the AOAC fungicidal test, 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>Salmonella schottmuelleri</i>
<i>Staphylococcus aureus</i>	<i>Salmonella typhi</i>
<i>Staphylococcus aureus</i> -MRSA	<i>Serratia marcescens</i>
<i>Salmonella choleraesuis</i>	<i>Shigella dysenteriae</i>
<i>Brevibacterium ammoniagenes</i>	<i>Streptococcus faecalis</i>
<i>Enterobacter aerogenes</i>	<i>Streptococcus pyogenes</i>
<i>Escherichia coli</i>	<i>Trichophyton mentagrophytes</i> (the athlete's foot fungus)
<i>Klebsiella pneumoniae</i>	<i>Vibrio cholerae</i>

HIV-1 (AIDS Virus)	Influenza A/Brazil
Herpes Simplex Type I	Vaccinia
Herpes Simplex Type II	Adenovirus Type 5 at 1:16 dilution (8 ounces per gallon)

**LONZA Formulation S-21** is a Sanitizer for porous and non-porous Non-Food Contact Surfaces at 1:256 dilution (200 ppm active) (0.5 ounce per gallon) 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>Staphylococcus aureus</i>	<i>Klebsiella pneumoniae</i>
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**LONZA Formulation S-21** is a mildewstat at 1:64 dilution (2 ounces per gallon) and 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 general instructions above).

**PELIGRO:**

Si no sabe el inglés, solicite instrucciones a su supervisor antes de este producto.

**Directions for Use**

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

**(Instrucciones de uso)**

El empleo de este producto de manera contraria a lo indicado en su etiqueta constituye una violación de la Ley Federal.)

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.

(Este producto no debe usarse como esterilizante/desinfectante de alto nivel en ninguna superficie o instrumento que: (1) haya de introducirse directamente en el organismo humano, ya sea en la circulación sanguínea o en contacto con ésta o con zonas orgánicas normalmente estériles, o (2) haya de entrar en contacto con mucosas intactas aunque habitualmente no atraviese la barrera hematológica o no penetre de alguna otra manera en zonas normalmente estériles del organismo. Este producto no se puede usar para la limpieza preliminar o para la descontaminación de dispositivos médicos de importancia crítica o semicrítica antes de proceder a la esterilización o la desinfección de alto nivel.)

**Preparation of use-solution:**

Add (mix) 2 oz. per gallon of water, to disinfect hard, non-porous surfaces.

For heavy duty use, add (mix) 8 oz. per gallon of water (1:16), to disinfect hard, non-porous surfaces.

**(Preparación de solución utilizable:**

Agregar 2 oz. por galón de agua, para desinfectar superficies duras no porosas.

Para uso pesado, agregar 8 oz. por galón de agua (1:16), para desinfectar superficies duras no porosas.)

**Disinfection/Virucidal/Mold and Mildew Control directions:**

Apply use-solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge, or sprayer.

**(Instrucciones de desinfección/control de virucidad/moho y enmohecimiento:**

Aplicar la solución utilizable a superficies duras (inanimadas) no porosas mojando completamente las superficies según lo recomendado y requerido, con un trapo, estropajo, esponja o rociador.)

For heavily soiled areas, a preliminary cleaning is required.

(Para áreas muy manchadas, se requiere una limpieza preliminar.)

For sprayer applications, use a coarse mist pump or trigger sprayer. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist.

(Para aplicaciones de rociador, utilizar un aparato de rociado grueso. Rociar 6 a 8 pulgadas desde la superficie, frotar con un cepillo, esponja o trapo. No respirar el vapor del rociador.)

Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution daily or when use solution becomes visibly dirty.

(Las superficies tratadas deben mantenerse mojadas durante 10 minutos. Preparar una solución fresca a diario o cuando la solución utilizable esté visiblemente sucia.)

**Sanitizing Non-Food Contact Surface directions:**

Add (mix) 0.5 oz. per gallon of water, to sanitize hard porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.

**(Instrucciones de esterilización de superficies que no están en contacto con alimentos:**

Agregar 0,5 oz. por galón de agua, para esterilizar superficies duras porosas y no porosas en contacto con el medio ambiente. Las superficies tratadas deben mantenerse mojadas durante 60 segundos.)

7 7 9

**Non-Acid Toilet Bowl and Urinal Disinfectant/Cleaner directions:**

**From concentrate:**

Add 2 oz. to the toilet bowl and mix. Brush thoroughly 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 a 2 oz./gal. 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 Heavy-duty use:**

Empty toilet bowl or urinal and apply a 8 oz./gal. (1:16) use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush.

**(Instrucciones para el desinfectante/limpiador no ácido de inodoro y urinario:**

**Con el concentrado:**

Agregar 2 oz. a la taza del inodoro y mezclar. Cepillar completamente sobre las superficies expuestas y debajo del reborde, dejando estar por 10 minutos y correr el agua.

**Con la solución utilizable:**

Vaciar la taza del inodoro o orinal y aplicar una solución utilizable de 2 oz./gal. a las superficies expuestas, inclusive debajo del reborde, con un trapo, estropajo, esponja o rociador, dejar estar por 10 minutos y correr el agua.

**Para uso pesado:**

Vaciar la taza del inodoro o orinal y aplicar una solución utilizable de 8 oz./gal. (1:16) a las superficies expuestas, inclusive debajo del reborde, con un trapo, estropajo, esponja o rociador, dejar estar por 10 minutos y correr el agua.)

**\* KILLS\* HIV ON PRECLEANED 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-21.

**CONTACT TIME:** Leave surface wet for 2 minutes with (2 ounces per gallon, 16 milliliters per liter) use-solution. Use a 10 minute contact time for disinfection against all other virus, bacteria, and fungi claimed.

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

**(\* MATA EL VIH EN SUPERFICIES/OBJECTOS EXPUESTOS AL MEDIO AMBIENTE PREVIAMENTE CONTAMINADOS CON SANGRE/LIQUIDOS CORPORALES, CUANDO SE LOS HA LIMPIADO PREVIAMENTE,** en lugares destinados al cuidado de la salud u otros lugares donde se prevea la posibilidad de contaminación de superficies/objetos inanimados con sangre o líquidos corporales y en los que dichas superficies/objetos pueden estar relacionados con el potencial de transmisión del virus de la inmunodeficiencia humana tipo (VIH-1) (asociado con el SIDA).

**"INSTRUCCIONES ESPECIALES PARA LA LIMPIEZA Y DESCONTAMINACION CONTRA EL VIH-1 SOBRE SUPERFICIES/OBJECTOS CONTAMINADOS CON SANGRE/LIQUIDOS CORPORALES."**

**PROTECCION PERSONAL:** La limpieza deberá hacerse siempre usando guantes de látex protectores, batas, máscaras y protección de la vista.

**PROCEDIMIENTO DE LIMPIEZA:** La sangre y otros líquidos corporales que contienen el VIH deben limpiarse completamente de las superficies y los objetos antes de aplicar LONZA FORMULATION S-21.

**TIEMPO DE CONTACTO:** Dejar la superficie mojada durante 2 minutos con (2 onzas por galón, 16 mililitros por litro) de solución utilizable. Dejar 10 minutos de tiempo contacto para la desinfección contra todos los otros virus, bacterias y hongos declarados.

**ELIMINACION DE MATERIALES INFECCIOSOS:** La sangre, los líquidos corporales, materiales de limpieza y ropa deben someterse al autoclave y eliminarse de acuerdo con la reglamentaciones locales sobre eliminación de desechos infecciosos.)

**Salon (Barber) Instruments and Tools Disinfectant Directions:**

Mix 4 ounces (120 ml) of **LONZA Formulation S-21** per gallon of water, or 1 ounce (30 ml) of **LONZA Formulation S-21** per quart of water to disinfect non-porous instruments and tools. **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 use. Fresh solution should be prepared daily or more often if solution becomes cloudy or soiled. **PERFORMANCE:** using the recommended directions shown above, **LONZA Formulation S-21** has been found to be effective as a pseudomonas, bactericide, germicide, fungicide (Trichophyton mentagrophytes), and virucide (Herpes simplex Type 1 and Type 2), and Human Immunodeficiency Virus, HIV-1 (AIDS Virus).

**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-21** to disinfect hard (inanimate) non-porous objects compatible with Ultrasonic cleaning units.

Pour fresh solution of 2 oz. per gallon of water (1:64) directly into bath chamber. Preclean 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), or allow to air dry. Replace solution daily or when solution becomes visibly dirty or discolored.

**Ventilation and Air Conditioning Duct Work Sanitizer Directions:**

**Prior to Sanitization:** Duct work must be manually or mechanically cleaned, vacuumed, using high powered industrial strength equipment, or blown free of dirt, dust, mold and debris, using a commercially available duct cleaning system or service.

**Application:** Spray or fog a solution of 0.5 ounce per gallon (1:256) of water into duct work using a suitable spraying or fogging device. Make sure that the surfaces are thoroughly wet for at least 60 seconds. During application, area must be closed as tightly as possible and sealed. After spraying or fogging, the area should be opened and aired for one (1) hour before repopulating. Do not breathe spray mist. Use an applicable NIOSH/MSHA approved respirator appropriate for fogging or spraying this product. After application, allow to air dry. Treat as required.

**Poultry (and Swine) Premise Disinfection:**

Remove all animals and feeds from premises, trucks, coops, and crates. Remove all litter, droppings and manure from floors, walls and surfaces of 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 ounces of **LONZA Formulation S-21** per gallon of water (1:64). Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. 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, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**Hatcheries:** Use 2 ounces of **LONZA Formulation S-21** per gallon of water (1:64) to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

**Vehicles:** Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and **LONZA Formulation S-21**. Use 2 ounce of **LONZA Formulation S-21** per gallon of water (1:64) to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution 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 disinfectant solution should be placed at all entrances to buildings and hatcheries. Scrape shoes and place in a 2 ounce per gallon of water (1:64) solution for 60 seconds prior to entering area. Change the disinfectant solution in the bath daily or when solution appears dirty.

**Dressing Plant Disinfectant Directions:** Gross filth and heavy soil must be removed prior to application of the product. Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants with a solution of 2 ounces per gallon of water (1:64). Equipment and utensils must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect offal rooms, exterior walls and loading platforms of dressing plants.



**For Use with Bowl Cleaning Tool:**

Specifically formulated for Daily and Light Cleaning of toilet bowls and urinals. Dispensed from the Bowl Cleaning Tool, this 8 ounce container cleans more toilets than a full quart of regular bowl cleaner.

Concentrated - Cleans up to 37 toilet bowls.

Cost Efficient - Metered dispensing combined with concentrated cleaner.

Disinfectant - Broad spectrum antimicrobial agent or disinfectant for use on inanimate hard surfaces.

Deodorizer - Deodorizes as it disinfects, by controlling malodors produced by microorganisms found in such areas as urinals and toilet bowls.

This product has been designed specifically for hospitals, nursing homes, schools, and other institutions where housekeeping is of prime importance. It deodorizes as it cleans by killing microorganisms in urinals and toilet bowls. Efficacy tests have demonstrated that this product, used as directed, is a proven "one-step" bactericide and virucide in water up to 400 ppm hardness in the presence of organic soil (5% blood serum). Gross filth and heavy soil must be removed prior to application of the product. This product is recommended for use on hard, non-porous inanimate surfaces (toilet bowls and urinals) and is to be dispensed only out of the Cleaning Tool.

**To Disinfect, Deodorize and Clean:**

**1. REMOVE WATER**

Force water into the bowl or urinal trap with the Bowl Cleaning Head.

**2. APPLY CLEANER**

Prior to application of the product, remove gross filth and heavy soil. Slide Trigger Stop to the "ON" position. Squirt concentrated bowl cleaner under and around the rim - minimum of 3 squirt - to thoroughly wet exposed surfaces for toilet bowls and urinals as required.

**3. CLEAN**

Wipe all surfaces with the swab portion of the head, so as to wet thoroughly. Scour with the scrub pad under the flush ring, or to remove stubborn stains.

**4. WAIT**

Allow to remain wet for 10 minutes. Flush. Rinse cleaning head in flush water. Drain head and shake off excess water. Repeat cleaning if necessary.

**5. LOCK/STORE**

Slide the Trigger Stop to the "LOCK" position.

