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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460

MAR 01 1994

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: LONZA DC-101
EPA Registration No. 6836-86
Your Resubmission of January 17, 1994

This is in response to your letter of above date submitting revised labeling for the addition of virucidal claims, use sites and revised use direction for the above named product. The following comments apply.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments listed below. Submit five copies of the finished label before you release the product for shipment bearing the amended labeling.

1. Under the heading "Note": Replace "Do not place container or formica" with "Do not place container on formica".

2. Under the "Statement of Practical Treatment, in the statement beginning with If swallowed... delete "drink promptly a large quantity of egg whites, gelatin solution; or if these are not available,..."

3. Delete "2" at the end of the last statement under "Toilet Bowl Disinfectant/Cleaner directions".

In accordance with your letter, the applications for the alternate formulations are being withdrawn from further consideration.

If you have any further questions, please contact Ms. Barbara Pringle at (703) 305-6484.

Sincerely yours,

Ruth G. Douglas
Product Manager (32)
Antimicrobial Program Branch
Registration Division (7505C)

CONCURRENCES						
SYMBOL	7505C					
SURNAME	Pringle					
DATE	3-1-94					



Precautionary Statements
Hazards to Humans and Domestic Animals

DANGER

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

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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Store in original container in areas inaccessible to children. Do not reuse empty container.

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

(Metal containers) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.

(Plastic containers greater than 1 Gallon) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(1 Gallon or less) Wrap and discard in trash.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

3-1-94

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

6836-86

Lonza Formula
DC-101

One-Step Acid Cleaner, Disinfectant, Virucide*, Sa
Deodorizer With Organic Soil toleran
3 oz./gal.

Plus Disinfectant Hard Water (400 ppm calculated as
at 4 oz./gal.

for Hospital, Institutional, Industrial

*Virucidal against HIV-1 (AIDS Virus) and Herpes S

Effective against pseudomonas, staph a

Removes hard Water Deposits and Lime So

Heavy Duty Bathroom Cleaner, Mildewstat, a

Quickly removes soap scum from shower tile, fiber
glass, toilet bowls, sinks, tubs, spa

Active Ingredient

Octyl decyl dimethyl ammonium chloride

Dioctyl dimethyl ammonium chloride

Didecyl dimethyl ammonium chloride

Alkyl (C14 50%, C12 40%, C16 10%) dimeth

benzyl ammonium chloride

Inert Ingredients

Total Ingredients

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE LEFT (BACK) PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Registration No.

EPA Establishment No.

Net Contents

Manufactured by:

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

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Cross-contamination is of major housekeeping concern not only in hospitals, but in schools, institutions, and industry. LONZA FORMULATION DC-101 has been formulated to aid in the reduction of cross-contamination in these areas.

LONZA FORMULATION DC-101 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 DC-101 is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.

When used as directed, LONZA FORMULATION DC-101 will 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 mal odors.

LONZA FORMULATION DC-101 will remove hard water deposits and limestone buildups when used as directed.

LONZA FORMULATION DC-101 is recommended for use in hospitals, medical and dental offices, nursing homes, public rest rooms, institutions, schools, athletic facilities, food processing plants, food storage areas, kitchens, restaurants and bars, transportation terminals, hotels and motels.

For use in households.

I&I/Janitorial

LONZA FORMULATION DC-101 is a mild acid pH disinfectant cleaner that disinfects, cleans and deodorizes in one labor-saving step. LONZA FORMULATION DC-101 is a concentrate that can be used with a mop and bucket, trigger sprayers, sponge, or by soaking.

LONZA FORMULATION DC-101 provides effective cleaning strength in removing difficult to clean soap scum, and hard water deposits.

LONZA FORMULATION DC-101 maximizes labor results by effectively controlling odors.

Household

LONZA FORMULATION DC-101 Cleans, shines, deodorizes and disinfects all non-porous household surfaces. Inhibits the growth mold and mildew, leaving bathrooms & kitchens clean and smelling fresh.

LONZA FORMULATION DC-101 is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures, and toilet bowls.

LONZA FORMULATION DC-101 is for use in kitchens, bathrooms and other household areas.

LONZA FORMULATION DC-101 may be applied to bathtubs, shower stalls, sinks, urinals, toilet bowls, toilet bowl surfaces, related fixtures,

walls, floors and other hard (inanimate) non-porous surfaces (metal, stainless steel, glazed porcelain, ceramic, and plastic).

LONZA FORMULATION DC-101 kills household germs in an effective against harmful pseudomonas, staph and strep, effectively controlling mold and mildew.

LONZA FORMULATION DC-101 is formulated to dissolve soap corrosion and hard water deposits without scouring. Spray on - and works on shower walls, glass doors, chrome, stainless steel fiberglass, while you enjoy the fresh clean deodorizing fragrance.

LONZA FORMULATION DC-101 is a Hospital Disinfectant, bactericidal at 1:32 dilution (4 ounce per gallon) according to the AOAC Use-Test method, modified in the presence of 400 ppm hard water plus organic serum against:

<i>Pseudomonas aeruginosa</i>	<i>Salmonella choleraesuis</i>
<i>Staphylococcus aureus</i>	

LONZA FORMULATION DC-101 is a Hospital Disinfectant, bactericidal at 1:43 dilution (3 ounce per gallon) according to the AOAC Use-Test method, modified in the presence of 250 ppm hard water plus organic serum against:

<i>Pseudomonas aeruginosa</i>	<i>Klebsiella pneumoniae</i>
<i>Staphylococcus aureus</i>	<i>Proteus mirabilis</i>
<i>Salmonella choleraesuis</i>	<i>Salmonella typhi</i>
<i>Brevibacterium ammoniagenes</i>	<i>Serratia marcescens</i>
<i>Enterobacter aerogenes</i>	<i>Shigella dysenteriae</i>
<i>Escherichia coli</i>	<i>Streptococcus pyogenes</i>

LONZA FORMULATION DC-101 is virucidal* at 1:43 dilution (3 ounce per gallon) according to the virucidal qualification, modified in the presence of 400 ppm hard water plus 5% organic serum against:

HIV-1 (AIDS virus)	Herpes Simplex Type 1
	Herpes Simplex Type 2

LONZA FORMULATION DC-101 is a sanitizer for hard and non-food contact surfaces at 0.75 ounce per 1 gallon dilution against:

<i>Klebsiella pneumoniae</i>	<i>Staphylococcus aureus</i>
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Directions for Use

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

Disinfection general use directions

(Full Strength Directions:

To clean, deodorize and disinfect, and control the growth of mold and mildew use full strength.)

Apply LONZA FORMULATION DC-101 to bathtubs, shower stalls, sinks, urinals, toilet bowls, toilet bowl surfaces, related fixtures, walls, floors and other hard (inanimate) non-porous surfaces (such as metal, stainless steel, glazed porcelain, ceramic, and plastic), thoroughly wetting surfaces as required. LONZA FORMULATION DC-101 can be applied with a cloth, mop, sponge, or soaked or sprayed. For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse spray device. Spray with quick full strokes 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist. After use; close nozzle.

Disinfection directions

Add 3 oz. per gallon of water (4 oz. per gallon of hard water), to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution daily or when use solution becomes diluted or soiled.

***Virucidal directions**

Add 3 oz. per gallon of water, for disinfection against all viruses claimed. Treated surfaces must remain wet for 1 minute. Prepare a fresh solution daily or when use solution becomes diluted or soiled.

Mold and Mildew Control directions

Add 3 oz. per gallon of water, to inhibit the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear.

Sanitizing Non-Food Contact Surface directions

Add 0.75 oz. per 1 gallon of water, to sanitize hard porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.

Toilet Bowl Disinfectant/Cleaner directions

From concentrate:

Add 3 oz. to the toilet bowl and mix. Brush thoroughly over surfaces and under the rim, allow to stand for 10 minutes and flush.

From use-solution:

Empty toilet bowl or urinal and apply a 4 oz. /gal. use-solution to surfaces including under the rim with a cloth, mop, sponge or allow to stand for 10 minutes and flush.2

*** KILLS HIV-1 ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD FLUIDS** in health care settings or other settings in which the expected likelihood of soiling of inanimate surfaces/objects with 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 "SPECIAL INSTRUCTIONS FOR CLEANING 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 infectious materials must be thoroughly cleaned from surfaces and objects before application of LONZA FORMULATION DC-101.

CONTACT TIME: (For full strength) Leave surface wet for 1 minute with a 10 minute contact time for disinfection against all other bacteria claimed. (For dilution) Leave surface wet for 1 minute with 3 gallon use-solution. Use a 10 minute contact time for disinfection against all other bacteria, claimed.

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

PELIGRO:

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

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(Additional Cleaning/Disinfectant Directions)

LONZA FORMULATION DC-101 has been used to clean hard, non-porous inanimate surfaces for over 10 years. Proven effective on all of the toughest bathroom problems. **LONZA FORMULATION DC-101** penetrates and dissolves soap scum, ground-in dirt and grime, mineral deposits, and hard water stains, and kill household germs. Cleans and shines without abrasive scouring action. Deodorizes, too! Leaving your bathroom smelling minty fresh. **WHERE TO USE:** All bathroom tile, fiberglass, shower walls and doors, tubs and sinks, chrome fixtures, and toilet bowls.

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **DISINFECTION OF SHOWER STALLS:** To clean, deodorize and disinfect, and control the growth of mold and mildew use full strength. For cleaning and deodorizing shower stalls and shower fixtures: starting at the bottom and working toward the top, simply foam on the surface and spread with a brush, sponge or cloth. Let set for a minute, agitate to loosen stubborn accumulations and then rinse with water. For cleaning and deodorizing toilet bowls, squirt foam on exposed surfaces including under the rim. Agitate thoroughly with brush, swab, sponge or cloth. Allow to soak for a few minutes then flush. To disinfect, treated surfaces must remain wet for 10 minutes; for HIV-1 (AIDS Virus) and Herpes Simplex Types 1&2 treated surfaces must remain wet for 1 minute using the undiluted product. For heavy soiled areas, a preliminary cleaning is required.

Note: Some older tubs or sinks may be etched or discolored by **LONZA FORMULATION DC-101**. Test on small hidden area first. Do not use on decorative brass fixtures, polished aluminum, natural or synthetic marble. Do not place container or formica.

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