

MAY 13 1991

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

Attention: Joseph R. Robinson

Gentlemen:

Subject: Lonza Formulation S-18  
EPA Registration No. 6836-77  
Your Application Dated October 15, 1990

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment.

1. Under the heading "Non-Acid Toilet Bowl Disinfectant Cleaner," revise the "Brush over exposed surfaces . . ." to read "Brush thoroughly over exposed surfaces and under the rim . . . ."
2. Under the heading "Non-Acid Toilet Bowl Disinfectant Cleaner," revise "Use-solution to exposed surfaces . . ." to read "Use-solution to exposed surfaces and under the rim . . . ."

A stamped copy of the labeling is enclosed for your records.

61738; I:DeLaney:L31-5;KEVRIC:04/19/91:05/16/91:CL:WO:CL


CONCURRENCES

SYMBOL								
SURNAME								
DATE								

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If you have any questions concerning this letter, please contact Martha DeLaney at (703) 557-6982.

Sincerely yours,

John H. Lee   
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosure

Cross contamination of infectious agents can occur not only in hospitals, but in schools, institutions, and industry. LONZA FORMULATION S-18 has been formulated to aid in the reduction of cross contamination in these areas.

LONZA FORMULATION S-18 is a one-step disinfectant-cleanser 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-18 is an effective one-step sanitizer-cleanser for use on non-food contact surfaces. When used as directed, LONZA FORMULATION S-18 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.

#### 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 or fatal if swallowed or absorbed through skin. Avoid contamination of food.

#### 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). 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 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.

(If container is 1 gallon or less, use this container disposal statement.)

Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

**BEST AVAILABLE COPY**

## LONZA FORMULATION S-18

Disinfectant-Cleaner-Sanitizer-Fungicide  
Mildewstat-Virucide\*-Deodorizer  
for Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness  
(calculated as  $\text{CaCO}_3$ ) in the presence of  
5% serum contamination

#### Active Ingredients

Octyl decyl dimethyl ammonium chloride	3.255%
Dioctyl dimethyl ammonium chloride	1.302%
Didecyl dimethyl ammonium chloride	1.953%
Allyl ( $\text{C}_{14}$ , 50%; $\text{C}_{12}$ , 40%; $\text{C}_{16}$ , 10%) dimethyl benzyl ammonium chloride	4.340%

#### Inert Ingredients

89.150%  
100.000%

KEEP OUT OF REACH OF CHILDREN

**DANGER PELIGRO**

#### 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.

SEE LEFT PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS

EPA Registration No.

EPA Establishment No.

Net Contents

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

MAY 13 1991

MANUFACTURED BY:

LONZA INC., 17-17 Route 208, Fair Lawn, N.J. 07410

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
EPA Reg. No. 1 for the pesticide  
Registered under EPA Reg. No.

6836-72

It is a violation of the Federal Insecticide, Fungicide, and Rodenticide Act to use this product in a manner inconsistent with its labeling.

LONZA FORMULATION S-18 is a disinfectant-cleanser-sanitizer-virucide which is effective against 500 ppm hardness in water and is effective against contamination.

Apply LONZA FORMULATION S-18 to other hard (linoleum, tile, etc.) surfaces, tables, chairs, etc., toilet bowls, urinals, mop or mechanical sweep surfaces. For daily cleaning is recommended daily or when dirty.

Disinfection — To disinfect surfaces, add 1 oz. of LONZA FORMULATION S-18 to 1 gal. of water. Surfaces must remain wet for 10 minutes in the presence of 5% serum contamination. By the AOAC use, it is effective against a broad spectrum of gram positive and gram negative bacteria.

Pseudomonas aeruginosa  
Staphylococcus aureus  
Salmonella choleraesuis  
Escherichia coli  
Streptococcus faecalis  
Klebsiella pneumoniae  
Enterobacter aerogenes  
Salmonella schenck  
Streptococcus pyogenes  
Shigella dysenteriae  
Brevibacterium lactofermentum  
Salmonella typhimurium  
Serratia marcescens  
Pseudomonas fluorescens

Non-Acid Toilet Bowl Cleaner  
1. Add 0.75 oz. to 1 gal. of water. Brush over exposed surfaces for 10 minutes and flush.

2. Empty toilet bowl. Use solution to expose surfaces. Use sponge or mechanical brush.

\*VIRUCIDAL PERFORMANCE  
At 1 oz. per gallon use, LONZA FORMULATION S-18 was evaluated in 400 ppm hard water at room temperature. Viruses found on environmental surfaces.

HIV-1 (AIDS virus)  
Influenza A/B  
Herpes Simplex  
Vaccinia