

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

LONZA FORMULATION S-21 is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal, 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.

When used as directed, LONZA FORMULATION S-21 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 if swallowed. Avoid contamination of food.

STORAGE AND DISPOSAL

- DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL
- OPEN DUMPING IS PROHIBITED
- DO NOT REUSE EMPTY CONTAINER

PESTICIDE DISPOSAL
PESTICIDE, SPRAY MIXTURE OR RINSE WATER THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS MUST BE DISPOSED OF ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURES UNDER SUBTITLE C OF THE RESOURCE CONSERVATION AND RECOVERY ACT

CONTAINER DISPOSAL
TRIPLE RINSE (OR EQUIVALENT) THEN OFFER FOR RECYCLING OR RECONDITIONING OR DISPOSE OF IN A SANITARY LANDFILL, OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES

GENERAL
CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES

323
ENVIRO

Disinfectant-Cleaner-Sanitizer-Fungicide
Mildewstat-Virucide*-Deodorizer
for Hospitals, Institutional and Industrial Use
Effective in hard water up to 400 ppm hardness
(calculated as CaCO₃) in the presence of 5% serum
contamination

Active Ingredients	
Octyl decyl dimethyl ammonium chloride	1.650%
Dioctyl dimethyl ammonium chloride	0.825%
Didecyl dimethyl ammonium chloride	0.825%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	2.200%
Inert Ingredients	
	94.500%
	100.000%

KEEP OUT OF REACH OF CHILDREN
DANGER

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 milk, 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.

SEE LEFT PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Registration No.
EPA Establishment No.
Net Contents

MANUFACTURED BY:
ATLANTA INSTRUMENT CO. 2824 E. HIGHWAY 101
For Sale For Use And Storage
By Maintenance Personnel Only

ACCEPTED
with COMMENTS
In EPA Form 713-24
Dated:
DEC 15 1962
713-24
EPA Form 713-24
Fungicide, Disinfectant, Sanitizer, Virucide, Mildewstat, Deodorizer, and Surface Cleaner, as defined in the pesticide act registered under EPA Form 713-24

ENVIRO to be inserted

Directions for Use

GENERAL CLASSIFICATION

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

LONZA FORMULATION S-21 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.

Apply LONZA FORMULATION S-21 to walls, floors and other hard (inanimate) non-porous surfaces such as tables, chairs, countertops, sinks, tile, porcelain and bedframes with a cloth mop or mechanical spray device so as to thoroughly wet surfaces. For heavy soiled areas a preliminary cleaning is required. Prepare a fresh solution daily or when use solution becomes visibly dirty.

Disinfection: To disinfect hard non-porous surfaces in hospitals add 2 oz. per gallon of water. Treated surfaces must remain wet for 10 minutes. At 1 1/2 oz. per gallon of water LONZA FORMULATION S-21 will disinfect hard non-porous surfaces in schools, industry and non-medical institutions.

2 oz. per gallon use-level:
The activity of LONZA FORMULATION S-21 has been evaluated in the presence of 5% serum and 400 ppm hard water by the AOAC use dilution test and found to be effective against a broad spectrum of gram negative and gram positive organisms as represented by:

- Pseudomonas aeruginosa
- Staphylococcus aureus
- Salmonella choleraesuis
- Escherichia coli
- Streptococcus pyogenes
- Klebsiella pneumoniae
- Enterobacter aerogenes
- Shigella flexneriae
- Shigella dysenteriae
- Brevibacterium meningosepticum
- Salmonella typhi
- Serratia marcescens

For schools, industry and non-medical institution use: At 1 1/2 oz. per gallon of water, LONZA FORMULATION S-21 delivers excellent cleaning and germicidal effectiveness. It is effective against Staphylococcus aureus, Salmonella choleraesuis, Escherichia coli and Serratia marcescens. The same AOAC tests used to confirm performance for hospitals were used.

Fungicidal Control:
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, etc., at 2 oz. per gallon.

Mold and Mildew Control: At 1 1/2 oz. per gallon, LONZA FORMULATION S-21 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 general instructions above). Allow to dry on surface and repeat when mildew growth returns.

Virucidal Performance: At 1 1/2 oz. per gallon use-level, LONZA FORMULATION S-21 was evaluated and found to be effective in the presence of 5% serum and 400 ppm hard water against the following viruses: Herpes A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

Sanitizing Non-Food Contact Surfaces (such as floors, walls, tables, etc.): At 1 oz. per 2 1/2 gallons use-level, LONZA FORMULATION S-21 is an effective sanitizer against Staphylococcus aureus and Klebsiella pneumoniae on hard porous and non-porous non-food contact surfaces. Treated surfaces must remain wet for 60 seconds.

<p align="center">U.S. ENVIRONMENTAL PROTECTION AGENCY REGISTRATION DIVISION</p> <p>NOTICE OF PESTICIDE</p> <p><i>Under the Federal Insecticide, Fungicide, and Rodenticide Act</i></p>	<p align="right">DATE: 25 DEC 1977</p> <p>NAME: _____</p>
<p>NAME AND ADDRESS OF REGISTRANT: _____</p>	
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p>	
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>	
<p><input type="checkbox"/> ATTACHMENT IS APPLICABLE</p> <p>SIGNATURE OF APPROVING OFFICIAL: _____ DATE: _____</p>	

713.30

-2-

e. Include the zip code.

3. As per phone conversation between Mr. Concarous and Mr. Cartwright on December 1, 1982, the following clarification has been made to your Confidential Statement of Formula.

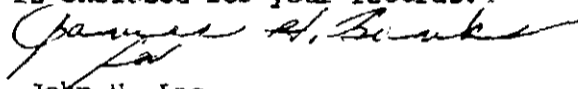
~~As per phone conversation between Mr. Concarous and Mr. Cartwright on December 1, 1982, the following clarification has been made to your Confidential Statement of Formula.~~

4. The confirmatory data submitted for the above referenced product is acceptable and has been assigned the Accession Number 248067.

5. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

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



John H. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (RS-767C)

Enclosures