

PM 31 6836-76

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LONZA FORMULATION S-23

Disinfectant-Cleaner-Sanitizer-Fungicide
Mildewstat-Virucide-Deodorizer for Schools,
Non-Medical 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	1.20%
Dioctyl dimethyl ammonium chloride	0.48%
Didecyl dimethyl ammonium chloride	0.72%
Alkyl C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%	
dimethyl benzyl ammonium chloride	1.60%

Inert Ingredients

96.00%
100.00%

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. 836-76
EPA Establishment No. 836-IL-1
Net Contents

ACCEPTED

MAR 27 1981

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg No. 6836-76

BEST AVAILABLE COPY

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

Cross-contamination is of major house-keeping concern in schools, non-medical institutions, and industry. LONZA FORMULATION S-23 has been formulated to aid in the reduction of cross-contamination in these areas. LONZA FORMULATION S-23 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-23 is an effective one-step sanitizer-cleaner for use on non-food contact surfaces. When used as directed, LONZA FORMULATION S-23 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 HAZARDOUS 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 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 one gallon or less, use this container disposal statement.)
Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. LONZA FORMULATION S-23 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-23 to walls, floors and other hard (inanimate) non-porous surfaces such as tables, chairs, countertops, sinks, tile, porcelain, toilet bowls, urinals and bedframes with a cloth, mop or mechanical spray device so as to thoroughly wet surfaces. For heavily 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, add 2 oz. per gallon of water. Treated surfaces must remain wet for 10 minutes. The activity of LONZA FORMULATION S-23 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:

Enterobacter aerogenes	Shigella dysenteriae
Klebsiella pneumoniae	Staphylococcus aureus
Salmonella choleraesuis	Streptococcus pyogenes
Escherichia coli	Salmonella typhi
Streptococcus faecalis	Brevibacterium ammoniagenes
Serratia marcescens	

Non-Acid Toilet Bowl Disinfectant/Cleaner Application.
1. Add 1.5 oz. to the bowl (0.75 gallon) and mix. Brush thoroughly over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.
2. 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 mechanical spray device.

FUNGICIDAL PERFORMANCE. LONZA FORMULATION S-23 is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on surfaces such as locker rooms, dressing rooms, shower and bath areas, exercise facilities etc., at 2 oz./gallon.

MOLD AND MILDEW CONTROL. At 2 oz./gallon, LONZA FORMULATION S-23 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 2 oz. per gallon use-level, LONZA FORMULATION S-23 was evaluated in the presence of 5% serum and 400 ppm hard water and found to be effective against the following viruses: Influenza A/Brazil, Herpes Simplex Types I and II and Vaccinia, on inanimate hard, non-porous environmental surfaces.

SANITIZING-NON-FOOD CONTACT SURFACES (such as floors, walls, tables, etc.). At 1 oz. per 2 gallons use-level, LONZA FORMULATION S-23 is an effective sanitizer against Staphylococcus aureus and Klebsiella pneumoniae on hard, porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.