

**ACCEPTED**  
 68-6-73  
 JUN 04 1981  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the purpose of registration under EPA Reg. No.

**LONZA FORMULATION S-38-3** has been formulated to aid in the reduction of cross-contamination in institutions, schools and hospitals. **LONZA FORMULATION S-38-3** is a one-step disinfectant-cleanser 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-38-3** is an effective one-step sanitizer-cleanser for use on non-food contact surfaces.

When used as directed, **LONZA FORMULATION S-38-3** 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 malodors.

**Precautionary Statements**

**Hazards to Humans and domestic animals**

**DANGER**

Keep out of reach of children. Corrosive. Causes severe 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 RINSATE THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES.

**CONTAINER DISPOSAL**

TRIPLE RINSE (OR EQUIVALENT) AND DISPOSE IN AN INCINERATOR OR LANDFILL APPROVED FOR PESTICIDE CONTAINERS, OR BURY IN A SAFE PLACE.

**GENERAL**

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING.

**LONZA FORMULATION S-38-3**  
 Disinfectant-Cleaner-Sanitizer-Fungicide-Mildewstat-Virucide\*-Deodorizer with Organic Soil Tolerance for Hospitals, Institutional and Industrial Use

**Active Ingredients**

Octyl Decyl Dimethyl Ammonium Chloride	1.14%
Dioctyl Dimethyl Ammonium Chloride	0.57%
Didecyl Dimethyl Ammonium Chloride	0.57%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%)	
Dimethyl Benzyl Ammonium Chloride	1.52%

**Inert Ingredients**

96.20%  
 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. 6836-73**

**EPA Establishment No. 6836-IL-1**

**Net Contents**

MANUFACTURED BY:  
**LONZA INC., 22-10 Route 208, Fair Lawn, N.J. 07410**

**For Sale For Use And Storage  
 By Maintenance Personnel Only**

**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-38-3** is a proven "one-step" cleaner-disinfectant-sanitizer-fungicide-mildewstat-virucide in the presence of moderate amounts of organic soil.

Apply **LONZA FORMULATION S-38-3** to walls, floors and other hard (inanimate) non-porous surfaces such as tables, chairs, countertops, sinks 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 in hospitals, add 2 oz. per gallon of water. Treated surfaces must remain wet for 10 minutes. At this use level, **LONZA FORMULATION S-38-3** is also virucidal, fungicidal and mildewstatic. At 1 oz. per gallon **LONZA FORMULATION S-38-3** will disinfect hard non-porous surfaces in schools, industry and non-medical institutions.

**Sanitizing** - To sanitize porous or non-porous, non-food contact surfaces add 1/2 oz. per gallon of water. Treated surfaces must remain wet for 60 seconds.

For hospitals and nursing homes, add 2 oz. per gallon of water. The broad spectrum of **LONZA FORMULATION S-38-3** has been evaluated in the presence of 5% serum and found to be effective against the following organisms by the AOAC Use-Dilution test.

- Pseudomonas aeruginosa*
- Staphylococcus aureus*
- Salmonella choleraesuis*
- Escherichia coli*
- Serratia marcescens*
- Klebsiella pneumoniae*
- Enterobacter aerogenes*
- Salmonella schottmulleri*
- Streptococcus faecalis*
- Shigella dysenteriae*
- Brevibacterium ammonigenes*

**AOAC Fungicidal Test**

**LONZA FORMULATION S-38-3** at 1 oz. per gallon 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.

**Mold and Mildew Control**

At 1 oz. per gallon, **LONZA FORMULATION S-38-3** 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 oz. per gallon use-level, **LONZA FORMULATION S-38-3** was evaluated in the presence of 5% serum and found to be effective against Influenza A-Brazil Virus on inanimate environmental surfaces.

For schools, non-medical institutional and industrial uses: At 1 oz. per gallon of water, **LONZA FORMULATION S-38-3** delivers excellent cleaning and germicidal effectiveness. It is effective against *Staphylococcus aureus*, *Salmonella choleraesuis* and *Escherichia coli*. The same AOAC tests used above to confirm suitable performance for hospitals were used.

**Sanitizing-Non-Food Contact Surfaces** (such as floors, walls, tables, etc.): At 1/2 oz. per gallon use-level, **LONZA FORMULATION S-38-3** is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae* in the presence of 5% serum on porous and non-porous environmental surfaces.