

LONZA FORMULATION S-38 has been formulated to aid in the reduction of cross-contamination in institutions, schools and hospitals. LONZA FORMULATION S-38 is a one-step disinfectant-cleaner that is effective against a broad spectrum of bacteria, is virucidal, fungicidal, and inhibits the growth of mold and mildew and their odors when used as directed. LONZA FORMULATION S-38 is an effective one-step sanitizer-cleaner for use on non-food contact surfaces. When used as directed, LONZA FORMULATION S-38 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

Hazard 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 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

M 31 5836-73

LONZA FORMULATION S-38

Disinfectant-Cleaner-Sanitizer-
Fungicide-Mildewstat-Virucide-Deodorizer
with Organic Soil Tolerance for Hospitals,
Institutional and Industrial Use

Active Ingredients

Octyl decyl dimethyl ammonium chloride	1.140 %
Dioctyl dimethyl ammonium chloride	0.456 %
Didecyl dimethyl ammonium chloride	0.684 %
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	1.520 %

Inert Ingredients

98.200 %
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., 17-17 Route 208, Fair Lawn, N.J. 07410

ACCEPTED

JUN 8 1990

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 6836-73

DIRECTIONS FOR USE

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

LONZA FORMULATION S-38 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 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, treated surfaces must remain wet for 10 minutes.

For hospitals and nursing homes, add 2 oz. per gallon of water. The activity of LONZA FORMULATION S-38 has been evaluated in the presence of 5% serum by the AOAC use dilution test and found to be effective against a broad spectrum of gram negative and gram positive organisms as presented by:

<i>Pseudomonas aeruginosa</i>	<i>Enterobacter aerogenes</i>
<i>Staphylococcus aureus</i>	<i>Salmonella schottmulleri</i>
<i>Salmonella choleraesuis</i>	<i>Streptococcus faecalis</i>
<i>Escherichia coli</i>	<i>Shigella dysenteriae</i>
<i>Serratia marcescens</i>	<i>Brevibacterium ammoniagenes</i>
<i>Klebsiella pneumoniae</i>	<i>Pseudomonas cepacia</i>

For schools, non-medical institutional and industrial uses: At 1 oz. per gallon of water, LONZA FORMULATION S-38 delivers 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.

Fungicidal Performance

LONZA FORMULATION S-38 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.

Mold and Mildew Control

At 1 oz. per gallon, LONZA FORMULATION S-38 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 was evaluated in the presence of 5% serum and found to be effective against the following viruses: Influenza A/Brazil, Herpes simplex Type 1 and 2, Vaccinia on inanimate hard nonporous environmental surfaces.

Sanitizing Non-Food Contact Surfaces (such as floors, walls, tables, etc.): At 1/4 oz. per gallon use level, LONZA FORMULATION S-38 is an effective sanitizer against *Staphylococcus aureus* and *Klebsiella pneumoniae* in the presence of 5% serum on porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.

LONZA FORMULATION S-38 has been formulated to aid in the reduction of cross-contamination in institutions, schools and hospitals. LONZA FORMULATION S-38 is a one-step disinfectant-cleaner that is effective against a broad spectrum of bacteria, is virucidal, fungicidal, and inhibits the growth of mold and mildew and their odors when used as directed. LONZA FORMULATION S-38 is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.

When used as directed, LONZA FORMULATION S-38 will deodorize surfaces in toilets, floors, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause mal odors.

Precautionary Statements
Hazard to Humans and Domestic Animals

DANGER

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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

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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.)

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Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	1.520 %

Inert Ingredients

98.206 %
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.

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as amended, for the pesticide
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EPA Reg. No. 6836-73

DIRECTIONS FOR USE

It is a violation of Federal Law to produce in a manner inconsistent with labeling.

LONZA FORMULATION S-38 is a proven one-step disinfectant-sanitizer-fungicide-mildewstat-in the presence of moderate amounts of organic soil.

Apply LONZA FORMULATION S-38 to walls, floor, hard (inanimate) non-porous surfaces such as tile, countertops, sinks and bedframes with a clean mechanical spray device so as to thoroughly wet heavily soiled areas, a preliminary cleaning is required. Refresh solution daily or when use solution becomes

Disinfection - to disinfect hard, non porous surfaces must remain wet for 10 minutes.

For hospitals and nursing homes, add 2 oz. of water. The activity of LONZA FORMULATION S-38 evaluated in the presence of 5% serum by the dilution test and found to be effective against a broad spectrum of gram negative and gram positive organisms as follows:

<i>Pseudomonas aeruginosa</i>	<i>Enterobacter</i>
<i>Staphylococcus aureus</i>	<i>Salmonella</i>
<i>Salmonella choleraesuis</i>	<i>Streptococcus</i>
<i>Escherichia coli</i>	<i>Shigella dysenteriae</i>
<i>Serratia marcescens</i>	<i>Brevibacterium</i>
<i>Klebsiella pneumoniae</i>	<i>Pseudomonas</i>

For schools, non-medical institutional and in a 1 oz. per gallon of water, LONZA FORMULATION S-38 delivers a cleaning and germicidal effect effective against *Staphylococcus aureus*, *choleraesuis* and *Escherichia coli*. The same AQ above to confirm suitable performance for hospital

Fungicidal Performance
LONZA FORMULATION S-38 at 1 oz. per gallon fungicide against *Trichophyton mentagrophytes* foot fungus when used on surfaces in areas such as rooms, dressing rooms, shower and bath facilities.

Mold and Mildew Control

At 1 oz. per gallon, LONZA FORMULATION S-38 inhibits the growth of mold and mildew and the by them when applied to hard, non-porous surfaces indicated in general instructions above. Allow to dry and repeat when mildew growth returns.

Virucidal Performance

At 1 oz. per gallon use-level, LONZA FORMULATION S-38 evaluated in the presence of 5% serum and effective against the following viruses: Influenza, Herpes simplex Type 1 and 2. Vaccinia virus on hard nonporous environmental surfaces. Sanitizing Non-Food Contact Surfaces (such as tables, etc.). At 1/4 oz. per gallon use-level, LONZA FORMULATION S-38 is an effective sanitizer against *Staphylococcus* and *Klebsiella pneumoniae* in the presence of 5% serum and non-porous environmental surfaces must remain wet for 60 seconds.