

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

MAY 19 2000

Subject: Lonza formulation L-7
 EPA Registration No. 6836-165
 Amendment Dated November 30, 1999

Attn: Ruth Trager
 Manager, Regulatory Services

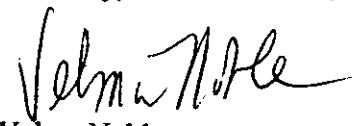
The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. The efficacy data submitted developed by the U.S. EPA testing method for viruses are adequate and supportive of the product's effectiveness as hospital and general disinfectant with a dilution of 5:128 in filtered sterile reagent grade deionized water solution in the presence of 5% fetal bovine serum for an exposure time of 1 minute at 23 degree centigrade exposure temperature for use on hard, nonporous surfaces.

See enclosed "Memorandum" for Toxicity results.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the final printed label before this product is released for shipment.

If you have any questions concerning the comments in this letter, you should contact Zenobia Jones at (703) 308-6198.

Sincerely,



Velma Noble
 Product Manager 31
 Regulatory Management Branch 1
 Antimicrobial Division (7510W)

CONCURRENCES							
SYMBOL	7510W						
SURNAME	Z. Jones						
DATE	5-15-2000						

Precautionary Statements
Hazards to Humans and Domestic Animals

DANGER

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield or safety glasses) and rubber gloves when handling. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

(STATEMENT OF PRACTICAL TREATMENT)

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention
IF ON SKIN: Wash with plenty of soap and water. Get medical attention if skin irritation persists.
IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

LONZA FORMULATION L-7

Disinfectant - Deodorant - Cleaner
Multi-Purpose Odor Counteractant Cleaner
Kills Pseudomonas, Salmonella and Staphylococcus
Virucidal*

Citrus / Floral / Pine / Mint / Lemon / Eucalyptus / Fresh /
Clean (Scent)(Odor)(Fragrance)

Active Ingredient:

Alkyl (C14 58%, C16 28%, C12 14%) dimethyl benzyl ammonium chloride	2.00%
Inert Ingredients	98.00%
Total	100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

ADVERTENCIA:
Si no sabe inglés,
pida instrucciones a su supervisor
antes de usar este producto.

SEE LEFT / SIDE / RIGHT / BACK PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

(If container size is 5 gallons or greater, use the following Environmental Hazards statements:)

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

(If container size is greater than one gallon, use the following Storage and Disposal statements:)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE

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 mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

(Metal containers) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

(Plastic containers): 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.

(If container size is one gallon or less, use the following Storage and Disposal statements:)

STORAGE AND DISPOSAL

Store in areas inaccessible to small children. Do not reuse empty container. Wrap and discard in trash.

EPA Reg. No. 6836-165
EPA Est. No. (as indicated on container)
Net Contents (as indicated on container)

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

ACCEPTED
with COMMENTS
in EPA Letter Dated:

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

6836-165

For use in households.
 For residential use. For use in homes.
 For use all around the house. Easy to Use!
 Cleans, Deodorizes, Disinfects!
 Kills many household germs
 Removes Ugly Mildew Stains!
 Eliminates odors.
 Eliminates pet odors. Destroys odors!
 Contains no dyes. (for dye free formulas only)
 No dyes added. Dye-free. (for dye free formulas only)
 Biodegradable.
 Contains biodegradable ingredients.
 Concentrate - Makes 25 gallons at 5 oz. per gallon (for one gallon size only)
 Concentrated - Makes up to 32 gallons at 4 oz./gallon (for one-gallon size only).
 Original Scent: Eucalyptus and 67 exotic wild flowers.
 This product contains no phosphorous.

Cross-contamination is of major housekeeping concern not only in hospitals, but in schools, institutions, and industry. **Lonza Formulation L-7** has been formulated to aid in the reduction of cross-contamination in these areas.
 When used as directed, **Lonza Formulation L-7** 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.

Lonza Formulation L-7 reduces the surface tension of water, improving its wettability. Microbes are capable of mass reproduction in sub-visible pores and cracks of surfaces. The excellent wettability of **Lonza Formulation L-7** improves the penetration of the use solution into areas that otherwise might not be reached.

Lonza Formulation L-7 is effective against a wide variety of gram positive and gram-negative bacteria. It is also an excellent deodorant and is especially effective in controlling odors that are bacterial in origin and has a pleasant lemon (mint) odor.

Lonza Formulation L-7 mixes with water to form clear, stable use solutions. Use solutions are non-corrosive and non-staining to plastic, vinyl, synthetics, enamel, tile and most common metals.

Lonza Formulation L-7 can be used with a mop and bucket, trigger sprayers, sponge, or by soaking.

Lonza Formulation L-7 provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.

Lonza Formulation L-7 improves labor results by effectively controlling odors.

Lonza Formulation L-7 cleans, shines, deodorizes and disinfects all pre-cleaned nonporous household surfaces, inhibits the growth of mold and mildew, leaving surfaces in the house including bathrooms & kitchens clean and smelling fresh.

Lonza Formulation L-7 is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures, and toilet bowls.

Lonza Formulation L-7 is for use in kitchens, bathrooms and other household areas.

Lonza Formulation L-7 kills household germs; effective against harmful *Pseudomonas aeruginosa* (pseudomonas), *Staphylococcus aureus* (staph) and *Streptococcus pyogenes* (strep), and Influenza A/Brazil.

Lonza Formulation L-7 is a neutral pH multi-surface cleaner, and deodorizer.

Use **Lonza Formulation L-7** on the multi-touch surfaces responsible for cross-contamination.

Use **Lonza Formulation L-7** on finished floors, high speed burnished floors, conductive flooring, tables, chairs, bathroom bowls, basins, counter tops, bed rails, door knobs and handles, glass surfaces including windows and mirrors.

Lonza Formulation L-7 is a balanced formulation combining Lonza's true odor counteractants, a non-ionic synthetic detergent, a quaternary ammonium compound, organic chelating agents and synergizing builders...for effective cleaning, and deodorizing when used as directed.

Lonza Formulation L-7 is effective at controlling mold and mildew odor on mattresses, pillows and shower curtains.

Lonza Formulation L-7 can be used in the laundry to control odors on musty bedding and linens. Test on a small inconspicuous area before using.

Lonza Formulation L-7 may be used on mildew stains in damp areas such as bathrooms, showers, kitchens, basements and laundry rooms.

Lonza Formulation L-7 may be used in work areas such as tool rooms and garages for odor control and light duty cleaning.

Lonza Formulation L-7 may be used to remove odors caused by flooding and smoke from fires.

Lonza Formulation L-7 leaves a clean fresh scent.

Lonza Formulation L-7 provides long-lasting freshness against tough (pet) odors such as odors from litter boxes and pet accidents.

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Directions for Use

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

Preparation of use-solution:

Add 5 oz. per gallon of water, to disinfect hard, precleaned nonporous surfaces.

Disinfection/*Virucidal/Mold and Mildew Control Directions:

Remove gross filth or heavy soil, then thoroughly clean surfaces. Apply use-solution to hard nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, or sprayer.

For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Avoid breathing spray.

Treated surfaces must remain wet for 10 minutes. Wipe dry with a clean cloth or sponge or let air dry. Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. This product should not be used to clean utensils, glassware and dishes.

Prepare a fresh solution daily or when use-solution becomes diluted or soiled.

Non-Acid Toilet Bowl Disinfectant/Cleanser Directions:

Remove gross filth prior to disinfection.

From concentrate:

Add 5 oz. to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim and flush. Repeat for disinfection and allow to stand for 10 minutes and flush.

From use-solution:

Empty toilet bowl or urinal and apply a 5 oz./gal. use-solution to exposed surfaces including under the rim with a cloth, mop, sponge, or sprayer. Brush thoroughly over exposed surfaces including under the rim and flush. Repeat for disinfection and allow to stand for 10 minutes and flush.

***KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES / OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/ OBJECTS SOILED WITH BLOOD/BODY FLUIDS.

PERSONAL PROTECTION: Clean-up should always be done wearing protective latex gloves, gowns, masks and eye protection.

CLEANING PROCEDURE: Blood and other body fluids containing HIV must be thoroughly cleaned from surfaces and objects before application of LONZA FORMULATION L-7.

CONTACT TIME: Leave surface wet for 1 minute (60 seconds) Use a 10 minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

DISPOSAL OF INFECTIOUS MATERIAL: Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

Instrument and Tool Directions:

Use 5 oz. of this product per gallon of water. Completely immerse precleaned brushes, combs, scissors, clipper blades, razors, manicure implements, and other nonporous instruments so that surfaces remain wet for 10 minutes. Rinse thoroughly and dry before use. Change solution daily or when visibly dirty.

Note: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried and kept in a clean, non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

To Clean and Deodorize or to Preclean Prior to Disinfection:

Depending on the soil level of the area to be cleaned, use 12 - 16 oz. of Lonza Formulation L-7 per gallon of water. Rub with brush, sponge or cloth. Wipe dry with a clean cloth or sponge or let air dry.

For Deodorizing garbage cans, garbage trucks, industrial waste receptacles and garbage handling equipment: It is especially important to preclean for the product to perform properly. Then, apply a wetting concentration of 16 - 32 oz. of Lonza Formulation L-7 per gallon of water.

For Mildew Control: Follow directions for Disinfection. Repeat treatment every seven days or when new growth appears.

To Control Odor on Musty Bedding and Linens: Add 32 ounces of Lonza Formulation L-7 to the final rinse water of a full size washer for each load of laundry.

For Mildew Stains: Use 16 oz. of Lonza Formulation L-7 per gallon of water to effectively remove mildew stains and odors. Follow directions for "To Clean and Deodorize".

For Odors Caused by Flooding and Smoke: Use 32 oz. of Lonza Formulation L-7 per gallon of water. Follow directions for "To Clean and Deodorize".

For Odors Caused by Dogs, Cats and Other Domestic Animals: Use on rugs, floors, walls, tile, cages, crates, mats, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "To Clean and Deodorize" or "Pet Odors" as appropriate.

Directions for Food Processing Plants: Use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. Before using this product, food products and packaging materials must be removed or carefully protected. Then follow the "Disinfection Directions".

Directions for Food Storage Areas: Use on non-food contact surfaces such as shelves, floors, walls and tables. Before using this product, food products and packaging materials must be removed or carefully protected. Then follow the "Disinfection Directions".

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Veterinary Practice / Animal Care / Animal Laboratory / Zoos

/ Pet Shop / Kennels Disinfection Directions: For cleaning and disinfecting hard nonporous surfaces including equipment, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 5 oz. of **LONZA FORMULATION L-7** per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

Farm Premise Use:

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly rinse all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of 5 oz. of **LONZA FORMULATION L-7** per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

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This Industrial Liquid Odor Destroyer Leaves No Residue and has a Multitude of Uses: Odor removal from urine, mildew, smoke, pets, sewage backup, and decaying organic matter, instant action air freshener.

Lonza Formulation L-7 is effective at eliminating odors on porous surfaces such as upholstery, drapes, carpets, bedding, shower curtains, mattresses and non-porous surfaces such as walls and floors. Excellent for fire restoration.

Other suggested Uses: Homes, Veterinary Clinics, Fish Markets, Kennels, Trash Compactors, Offices, Beauty Salons, Locker Rooms, Health Spas, Conference rooms, Elevators, Smoking Areas, Lounges, Day Care Centers, Dry Cleaners, Theaters, Farms, Auditoriums and Churches.

Deodorizing directions:

Nursing Homes, Hospitals, Hotels, Schools, Restaurants: 2 - 4 ounces in chemical toilets, waste receptacles, bed pans, drainage bottles, diaper pails, hampers, disposals, commodes and air conditioner pans will eliminate odors.

Mopping Solutions, Automatic Scrubbers: 4 - 8 ounces per gallon of cleaning solution eliminates undesirable odors.

Laundry: 4 - 8 ounces per load added during the final rinse cycle deodorizes all offensive odors.

Air Freshener/Automotive Uses: 22 ounces per gallon of water or desired concentration will effectively neutralize damp musty odors caused by mildew in storage areas, basements, closets and bathrooms. Effective on smoking and cooking odors (garlic, fish, onions, etc.). Automobile odors from tobacco, musty carpet smell and beverage smells will be eliminated.

Carpets: 4 - 8 ounces per gallon of shampoo solution eliminates odors associated with urine, vomit, smoke, and mildew. Reapply after cleaning for freshening effects. Allow to dry.

RV Holding Tanks: Toilet waste: cover bottom of holding tank with water and add 3 - 6 ounces. If odors return before time to empty, simply add 1 - 2 ounces to the tank. Kitchen waste: 1 - 2 ounces of **Lonza Formulation L-7** to gray water tank as needed to control malodors created by dirty dish water.

Pet Odors: 32 ounces per gallon of water or desired concentration, for urine, feces, and vomit, in carpet and upholstery. Clean prior to application then spray onto affected areas. Test hidden area for colorfastness. Allow 10 minutes contact time. Then blot with clean cloth. Allow to dry. Also effective on pet bedding and litter boxes.

Sewage Backup, Water Damage: 16 ounces per gallon of water or desired concentration. Spray over affected areas before and after cleaning and extraction. Allow ten minutes contact time. Use proper ventilation; open windows.

Cleaning Solution: Dilute 4 - 8 ounces per gallon of water for cleaning of kitchen counters, tables, walls, bathrooms, toilet seats, mopping floors and large routine applications.

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