

6836-206

1/14

AUG 31 2011

Ms. Joanna Holcombe  
Lonza Inc.  
90 Boroline Road  
Allendale, NJ 07401

SUBJECT: **Lonza Formulation DC109N**  
EPA Registration Number: 6836-206  
Application Dated: June 07, 2011  
Receipt Date: June 08, 2011

Dear Ms. Holcombe:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with comments.

- Remove Pseudomonas aeruginosa and hospital use sites.
- Add placeholder for DOT symbols.
- Add universities to the areas of use.
- Add notes to reviewer regarding graphics for areas of use and types of surfaces.
- Add storage and disposal language for sealed containers.

**Conditions:**

1. On page 1 revise the claim 'For Home, Institutional and Industrial Use' to read "*For Home and Industrial Use. Not for Use in Healthcare settings*".
2. On page 5 under AREAS of USE delete "Emergency vehicles" from the list.
3. On page 5 under AREAS of USE revise the claims "institutional kitchens", "Institutional facilities" and "Institutions" to read ", "Nonhealthcare Institutional Kitchens", "Nonhealthcare Institutional Facilities" and "Nonhealthcare Institutions".
4. On page 6 under the "TYPES OF SURFACES" revise the claim for "Whirlpool bathtubs" to read "Whirlpool bath for nonmedical use".
5. On page 9 revise the section for HIV to read "\*Kills HIV and HBV ... WITH BLOOD/BODY FLUIDS *in settings where is an expected likelihood of soiling...*"
6. On page 9 under ULTRASONIC BATH DIRECTIONS revise language to read "objects compatible with *nonmedical* **CONCURRENCES** cleaning units"

SYMBOL							
SURNAME							
DATE							

- 7. On page 9 under WHIRPOOL BATH[S] [UNITS] DISINFECTION DIRECTIONS change language to read "After using *nonhealthcare* [whirlpool]..."

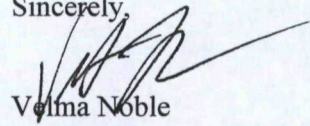
**General Comments**

A stamped copy of the accepted labeling with conditions is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Drusilla Copeland at (703) 308-6224 for Velma Noble at (703) 308-6233.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510P).

Enclosure: stamped label

# LONZA FORMULATION DC-109N

Disinfectant – Cleaner – Sanitizer – Fungicide –  
Mildewstat - Virucide\* - Deodorizer  
for Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness [Calculated as CaCO<sub>3</sub>] in the presence of 5% serum contamination

Fresh / Clean / Lemon / Pine / Mint / Floral / Citrus [scent] [fragrance] [scented] [odor]

Formulated for effective poultry premise sanitation  
Formulated for effective swine premise sanitation

Active Ingredient:  
Didecyl dimethyl ammonium chloride .....7.68%  
Other Ingredients: .....92.32%  
Total: .....100.00%

**ACCEPTED**  
with **COMMENTS**  
in EPA Letter Dated:  
**AUG 31 2011**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. **6836-206**

**KEEP OUT OF REACH OF CHILDREN**

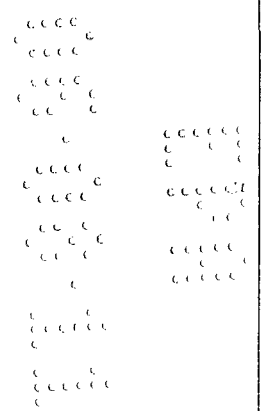
**DANGER [PELIGRO]**

See [side] [left] [right] [back] panel for Precautionary Statements and First Aid.

EPA Reg. No. 6836-206  
EPA Est. No. (as noted on the container)  
Net Contents (as noted on the container)

[DOT symbols]  
[Country of origin (insert country)]  
[Manufactured in (insert country)]  
[Barcode]

Manufactured by:  
LONZA INC.  
90 Boroline Road, Allendale, NJ 07401



**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

**FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

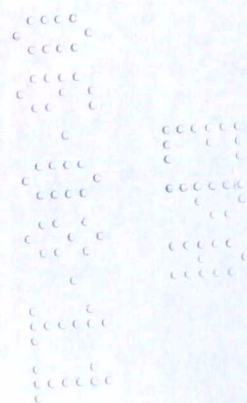
**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Call a poison control center or doctor for treatment advice. Have the container or label with you when calling a poison control center or doctor, or going for treatment.

*(Note to reviewer: If the container size is 5 gallons or greater, the following Environmental Hazards statements will be used:)*

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates. 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.



{Note to reviewer: The following is considered optional marketing language:}

- Concentrate [Concentrated]
- Disinfects [Disinfectant]
- Cleans [Cleaner]
- Deodorizes [Deodorant]

Cross-contamination is of major housekeeping concern not only in hospitals, but also in schools, institutions and industry. **Lonza Formulation DC-109N** has been formulated to aid in the reduction of cross-contamination from treated surfaces in these areas.

**Lonza Formulation DC-109N:**

- Is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal\* [including HIV-1 and HBV], fungicidal, and inhibits the growth of mold and mildew and their odors when used as directed.
- is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.
- will deodorize surfaces in restrooms and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause mal odors.
- 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 and exercise facilities.
- contains no [phosphates or] phosphorous [compounds].
- is a no-rinse neutral pH disinfectant cleaner that disinfects, cleans and deodorizes in one labor-saving step.
- can be used with a mop and bucket, trigger sprayers, sponge, or by soaking.
- provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.
- improves labor results by effectively controlling odors.
- cleans, shines, deodorizes and disinfects hard nonporous household surfaces. Inhibits the growth mold and mildew, leaving bathrooms & kitchens clean and smelling fresh.
- kills household germs; effective against Pseudomonas aeruginosa [Pseudomonas], Staphylococcus aureus [Staph] and Streptococcus faecalis [Strep], Influenza A/PR Virus and Trichophyton mentagrophytes [Athlete's foot fungus] [Cause of Ringworm].
- is a neutral pH multi-surface cleaner, deodorizer, and disinfectant. Use on windows, mirrors, and other glass surfaces.

**Use Lonza Formulation DC-109N**

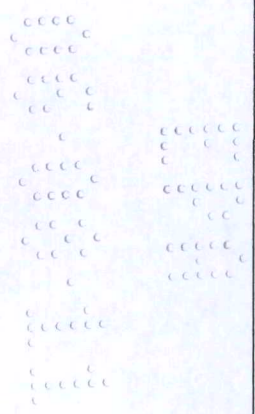
- for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures, and toilet bowls.
- in kitchens, bathrooms and other household areas.
- on the multi-touch surfaces responsible for cross-contamination.
- on glass surfaces including windows and mirrors.

**Lonza Formulation DC-109N** is recommended for Poultry Premise Sanitation [Hatcheries]:

- |                       |                    |
|-----------------------|--------------------|
| Chick Processing Area | Chick Holding Room |
| Egg Receiving Area    | Egg Holding Area   |
| Chick Loading Area    | Tray Dumping Area  |
| Setter Room           | Hatchery Room      |
| Poultry Buildings     |                    |

**Lonza Formulation DC-109N** is recommended for Swine Premise Sanitation:

- |                         |                      |
|-------------------------|----------------------|
| Farrowing Barns & Areas | Dressing Plants      |
| Blocks                  | Waterers and Feeders |
| Loading Equipment       | Creep Area           |
| Hauling Equipment       | Nursery              |
| Chutes                  |                      |



{Note to reviewer: the following is considered optional marketing language:}

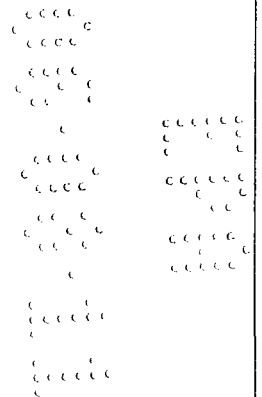
Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product [Product Name] is a broad-spectrum hard surface disinfectant that has been shown to be effective against (*influenza A virus tested and listed on the label*) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

This product has demonstrated effectiveness against influenza A virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.

This product has demonstrated effectiveness against (*influenza A virus tested and listed on the label*) and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).

Kills Pandemic 2009 H1N1 influenza A virus.



{Note to reviewer: The following is considered optional marketing language.}

**[AREAS OF USE:]**

Use **Lonza Formulation DC-109N** in:

{Note to reviewer: Each entry below also represents a graphic depicting the corresponding area of use. The graphics will only represent individual objects or outsides or insides of buildings as described below. No people or food will be depicted in graphics.}

Bathrooms  
Homes [households]  
Kitchens

Dental offices  
Hospitals  
Medical Offices  
Nursing homes

Day care centers  
Nurseries

Bars  
Cafeterias  
Convenience stores  
Food processing plants  
Food storage areas  
Institutional kitchens  
Restaurants  
USDA inspected food processing facilities

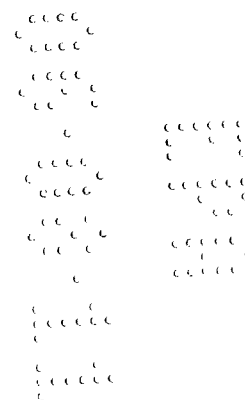
Athletic facilities  
Barber shops  
Business and office buildings  
Colleges  
Correctional facilities  
Dressing rooms  
Exercise facilities  
Factories  
Hotels  
Institutional facilities  
Institutions  
Locker rooms  
Motels

Prisons  
Public facilities  
Public rest rooms  
Schools  
Shower and bath areas  
Salons  
Universities

Camp grounds  
Play ground equipment

Animal laboratories  
Dairy farms  
Hog farms  
Kennels  
Poultry farms  
Pet animal quarters  
Pet shops  
Turkey farms  
Zoos

Airports  
Airplanes  
Boats  
Buses  
Campers  
Cars  
Emergency vehicles  
Mobile homes  
Ships  
Taxis  
Trailers  
Trains  
Transportation terminals



{Note to reviewer: The following is considered optional marketing language.}

**[TYPES OF SURFACES:]**

Use **Lonza Formulation DC-109N** on washable hard, nonporous surfaces of:

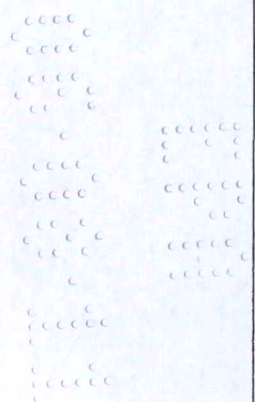
{Note to reviewer: Each entry below also represents a graphic depicting the corresponding type of surface. No people or food will be depicted in graphics. Only exteriors of microwaves and refrigerators will be depicted. Toy graphics will be submitted to Agency for review.}

- Appliances
- Bathroom bowls
- Bathroom basins
- Bathroom fixtures
- Bathtubs
- Cabinets
- Cages
- Chairs
- Coils and drain pans of air conditioning and refrigeration equipment and heat pumps
- Conductive flooring
- Counters [countertops]
- Countertop laminates
- Desks
- Doorknobs
- Door handles
- Fiberglass bathtubs
- Fiberglass sinks
- Floors
- Floors, finished
- Floors, high speed burnished
- Garbage cans
- Highchairs
- Kennel runs
- Microwave ovens [Exterior Surfaces]
- Outdoor furniture
- Refrigerators [Exterior Surfaces]
- Refrigerated storage and display equipment

- Showers
- Shower stalls
- Sinks [bathroom, kitchen]
- Stoves [stovetops]
- Tables, [picnic tables]
- Telephones
- Toilets
- Toilet bowls
- Toilet bowl surfaces
- Tubs
- Tiles, glazed
- Ultrasonic baths
- Urinals
- Walls
- Whirlpool bathtubs

Other hard nonporous surfaces made of:

- Formica®
- Glazed ceramic
- Glazed enameled surfaces
- Glazed porcelain
- Metal
- Plastic [such as polystyrene or polypropylene]
- Sealed stone
- Stainless steel
- Upholstery, vinyl and plastic
- Woodwork, finished





**Lonza Formulation DC-109N** is a Hospital-Disinfectant at 1 oz. per gallon [8 mL per liter, 1:128 dilution], modified in the presence of 250 ppm hard water, and at 1-1/3 oz. per gallon [10 mL per liter, 1:100 dilution], modified in the presence of 400 ppm hard water.

**Lonza Formulation DC-109N** is Bactericidal according to the AOAC Use-Dilution Test method, Virucidal\* according to the virucidal qualification on hard inanimate surfaces, Fungicidal according to the AOAC fungicidal test, modified in the presence of 5% organic serum against:

[Bacteria:]

- Pseudomonas aeruginosa [Pseudomonas]
- Salmonella enterica [Salmonella]
- Staphylococcus aureus [Staph]
  
- Acinetobacter baumannii
- Brevibacterium ammoniagenes
- Chlamydia psittaci
- Enterobacter aerogenes
- Enterobacter cloacae
- Enterococcus [Streptococcus] faecalis-Methicillin-resistant
- Enterococcus faecalis - Vancomycin-resistant [VRE]
- Escherichia coli [E. coli]
- Escherichia coli - Methicillin resistant
- Enterococcus [Streptococcus] faecalis
- Klebsiella pneumoniae
- Klebsiella pneumoniae - Methicillin resistant
- Proteus vulgaris
- Salmonella schottmuelleri
- Salmonella typhi
- Salmonella typhimurium
- Serratia marcescens
- Shigella dysenteriae
- Shigella flexneri
- Shigella sonnei
- Staphylococcus aureus - Methicillin resistant [MRSA]
- Staphylococcus aureus - Vancomycin Intermediate Resistant [VISA]
- Staphylococcus epidermidis
- Streptococcus pyogenes (Strep)

[Viruses:]

- \*Hepatitis B Virus
- \*Herpes Simplex Virus Type 1
- \*Herpes Simplex Virus Type 2
- \*HIV-1 [AIDS virus]
- \*Influenza A/PR Virus [Influenza]
- \*Rubella [Causative agent of German measles]
- \*Vaccinia Virus

[Fungi:]

- Aspergillus niger
- Candida albicans
- Trichophyton mentagrophytes [Athlete's Foot Fungus]  
[Cause of Ringworm]

**Lonza Formulation DC-109N** is a sanitizer for hard, nonporous, non-food, contact surfaces at 1 - 1 1/3 oz. per gallon [8 - 10 mL per liter] against:

- Enterobacter aerogenes                      Staphylococcus aureus

**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:**

For water hardness up to 250 ppm, add 1 oz. per gallon [8 mL per liter] of water [1:128].  
For water hardness up to 400 ppm, add 1 1/3 oz. per gallon [10 mL per liter] of water [1:100].  
For heavy duty use, add 4 oz. per gallon [32 mL per liter] of water [1:32].

**DISINFECTION / VIRUCIDAL\* / FUNGICIDAL DIRECTIONS:**

Apply use-solution to hard nonporous surfaces thoroughly wetting the surfaces with a cloth, mop, sponge or sprayer.

Treated surfaces must remain wet for 10 minutes [2 minutes for disinfection against all viruses claimed except HBV]. Wipe dry with a clean cloth or sponge or allow to air dry. For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray.

Prepare a fresh solution daily or more often if the use solution becomes diluted or soiled.

Rinse all surfaces, which come in contact with food, such as countertops, appliances, tables and stovetops, with potable water before reuse. Do not use on utensils, glassware and dishes.

~~{Note to reviewer: For labels that list medical premises and metal and / or stainless steel surfaces, one of the following statements must be used.}~~

~~This product is not to be used as a terminal sterilant / high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.~~

~~{or}~~

~~This product is not for use on medical device surfaces.~~

**MOLD AND MILDEW CONTROL DIRECTIONS:**

To control the growth of mold and mildew and their odors on hard, nonporous surfaces, apply use-solution to thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears.

**\*KILLS HIV AND HBV 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] or Hepatitis B Virus [HBV].

**Special Instructions for Cleaning and Decontamination against HIV-1 or HBV on Surfaces / Objects Soiled With Blood / Body Fluids.**

**Personal protection:** Clean-up should always be done wearing protective gloves, gowns, masks and eye protection.

**Cleaning procedure:** Blood and other body fluids containing HIV or HBV must be thoroughly cleaned from surfaces and objects before application of Lonza Formulation DC-109N.

**Contact time:**

**For HIV:** Use 1 oz. of **Lonza Formulation DC-109N** per gallon of water [8 mL per liter]. Leave surfaces wet for 2 minutes

**For HBV:** Use 1 1/3 oz. of **Lonza Formulation DC-109N** per gallon of water [10 mL per liter]. Leave surfaces wet for 10 minutes.

**For disinfection against all other bacteria and fungi claimed:** Use a 10 minute contact time.

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**Disposal of infectious materials:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

**NON-ACID TOILET BOWL AND URINAL DISINFECTANT / CLEANER DIRECTIONS:**

Remove heavy soil prior to disinfection.

**From concentrate:**

Add 1 – 1<sup>1</sup>/<sub>3</sub> oz. [30 - 40 mL] to the toilet bowl and mix; brush thoroughly over exposed surfaces and under the rim with a cloth, mop or sponge. Allow to stand for 10 minutes and flush.

**From use-solution:**

Empty toilet bowl or urinal and apply 1 – 1<sup>1</sup>/<sub>3</sub> oz. per gallon [8 - 10 mL per liter] use-solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly. Allow to stand for 10 minutes and flush.

**For Heavy-duty use:**

Empty toilet bowl or urinal and apply a 4 oz. per gallon [32 mL per liter] use-solution to exposed surfaces, including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly. Allow to stand for 10 minutes and flush.

**SALON [BARBER] INSTRUMENTS AND TOOLS DISINFECTION [BACTERICIDE] / VIRUCIDE\* / FUNGICIDE DIRECTIONS:**

Mix 1 – 1<sup>1</sup>/<sub>3</sub> oz. of **Lonza Formulation DC-109N** per gallon of water [or equivalent dilution] to disinfect hard, nonporous instruments and tools. Completely immerse combs, brushes, rollers, razors, scissors, blades, manicure and other salon instruments and tools for 10 minutes. For heavily soiled instruments and tools, a preliminary cleaning is required. Rinse thoroughly and dry before use. Prepare a fresh solution daily or more often if the solution becomes visibly diluted, cloudy or soiled.

**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.

**ULTRASONIC BATH DISINFECTANT DIRECTIONS:**

Use **Lonza Formulation DC-109N** to disinfect hard nonporous non-critical instruments / objects compatible with Ultrasonic cleaning units.

Pour fresh use-solution of 1 – 1<sup>1</sup>/<sub>3</sub> oz. of **Lonza Formulation DC-109N** per gallon of water [or equivalent dilution] directly into bath chamber. Preclean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturer's use directions. Remove objects and rinse with sterile water [sterile water for injection], or allow to air dry. Prepare a fresh solution for each use.

**WHIRLPOOL BATH DISINFECTION DIRECTIONS:**

After using whirlpool unit, drain and fill with a use solution of 1 – 1<sup>1</sup>/<sub>3</sub> oz. of **Lonza Formulation DC-109N** per gallon of water to just cover the intake valve. Start the pump to circulate the solution. Wash down the unit sides, seat of the chair lift, and any related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse disinfected surfaces with fresh water.

Repeat for heavily soiled units.

**VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION DIRECTIONS:**

For cleaning and disinfecting the following hard nonporous surfaces: equipment used for animal food or water, utensils, instruments, cages, kennels, stables and catteries. 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. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 1 to 1<sup>1</sup>/<sub>3</sub> oz. of **Lonza Formulation DC-109N** 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. Wipe or allow to air dry. Rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. 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 clean surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 1 to 1 1/3 oz. of **Lonza Formulation DC-109N** 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, trucks, 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.

**DIRECTIONS FOR FOOD PROCESSING PLANTS:**

For 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. Follow disinfection directions.

**DIRECTIONS FOR FOOD STORAGE AREAS:**

For 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 from the room or carefully protected, then follow disinfection directions.

**DIRECTIONS FOR SANITIZING NON-FOOD CONTACT SURFACES:**

Add 1 – 1 1/3 oz. per gallon [8 - 10 mL per liter] of water, to sanitize hard, nonporous, environmental surfaces. Treated surfaces must remain wet for 60 seconds. Wipe dry with a clean cloth or sponge or allow to air dry.

**POULTRY AND SWINE PREMISE DISINFECTION DIRECTIONS**

**SITE PREPARATION:**

The first step in any on-going sanitation program should be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, disinfection can be ACCOMPLISHED IN ONE EASY STEP.

**CLEANING:**

For all general cleaning, use 1 – 1 1/3 oz. of **Lonza Formulation DC-109N** per gallon of water [1:128 solution]. Apply **Lonza Formulation DC-109N** using a cloth, mop, or pressure sprayer so as to thoroughly wet surfaces. Wipe dry with a clean cloth or sponge or allow to air dry.

**DISINFECTION:**

Remove all animals and feeds from premises, vehicles, trucks, and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stall, chutes and other facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 1 – 1 1/3 oz. of **Lonza Formulation DC-109N** per gallon of water. Saturate surfaces with the recommended disinfecting solution 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. Wipe dry with a clean cloth or sponge or allow to air dry. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**HATCHERIES:** Use 1 – 1 1/3 oz. of **Lonza Formulation DC-109N** per gallon of water to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and **Lonza Formulation DC-109N**. Use 1 – 1 1/3 oz. per gallon to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge or allow to air dry.

**SHOE BATH SANITIZER DIRECTIONS:** Shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings and hatcheries. Scrape waterproof work boots and place in a 1 to 1 1/3 oz. per gallon of water solution for 60 seconds prior to entering the area. Change the solution in the bath daily or more often if the solution appears diluted or soiled.

**DRESSING PLANT DISINFECTION DIRECTIONS:** Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution of 1 oz. per gallon. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water. Wipe dry with a clean cloth or sponge or allow to air dry.

**SANITIZING HATCHERY ROOMS USING FOGGING DEVICES:**

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Mix two parts **Lonza Formulation DC-109N** to five parts water [1 gallon of **Lonza Formulation DC-109N** to 2.5 gallons water]. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waters with soap or detergent, and rinse with potable water before reuse.

**SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES**

Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Mix 12 oz. of **Lonza Formulation DC-109N** to 122 oz. water. Fog 3 - 8 oz. of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breathe this fog and do not enter until the fog has settled [30 - 60 minutes after fogging is completed]. It is acceptable to fog setters and hatchers with a 1 - 1 1/3 oz. per gallon solution of **Lonza Formulation DC-109N** on an hourly or every other hour basis. If this is done, fog for 30 - 90 seconds once per hour or once every two hours. When fogging is completed, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed 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.

NOTE: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OR ROOM AND MACHINE SURFACES.

**GLASS CLEANING/DEODORIZING DIRECTIONS:**

Add 1/2 - 2 oz. per gallon [4 - 16 mL per liter] of water to clean and deodorize windows, mirrors and glass surfaces.

For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from surface; rub with sponge or cloth. Do not breathe spray.

{Note to reviewer: For Nonrefillable Containers, Label has Household and Residential Uses}

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children.

Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for recycling if available.

{or}

Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for reconditioning if appropriate.

{Note to reviewer: For Nonrefillable Containers for commercial, industrial, and institutional uses – all sizes – No Reuse Rinsate Statement for Public Health Use products}

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Open dumping is prohibited. Store in original container in areas inaccessible to children.

**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 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:**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

**{Plastic and Metal Containers:}** Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

**{For metal containers only:}** DO NOT cut or weld metal containers.

**{Bag in Box Containers:}** Completely empty bag into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

{Note to reviewer: For Nonrefillable Sealed Containers: Packaging options can be in sealed containers or bottles designed for use dilution systems to reduce worker exposure to the concentrate. None of these can be triple rinsed because they are closed sealed containers. The following text will be used on these sealed container types:}

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children.

Nonrefillable container. Do not reuse or refill this container. Wrap empty container and put in trash.