

PM-31

Reg # 6836-205

1 of 13

Please read instructions on reverse before completing form. Form Approved - OMB No. 2070-0060 - Approval expires 05-31-98



United States Environmental Protection Agency
Washington, DC 20460

Registration
Amendment
 Other

OPP Identifier Number

250442

Application for Pesticide Section II

1. Company/Product Number 6836-205	2. EPA Product Manager M. Johnson	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Lonza Formulation DC-108N		5. Name and Address of Applicant (Include ZIP Code) Lonza Inc. 17-17 Route 208 Fair Lawn, NJ 07410 <input type="checkbox"/> Check if this is a new address
6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____		

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Nothing to report

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<input type="checkbox"/> Yes <input type="checkbox"/> No * Certification must be submitted	<input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt. _____ No. per this container _____	<input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt. _____ No. per container _____	<input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label on container <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Eliot I. Harrison	Title Agent for LONZA	Telephone No. (Include Area Code) (301) 652-5495
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I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Agent for LONZA	8. Date Application Received (Stamped)
4. Typed Name Eliot I. Harrison	5. Date 11-7-95	

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"BEFORE USE"

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 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 oral lavage.

**Precautionary Statements
Hazards 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. Irritant or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Store in original container in areas inaccessible to children. Do not reuse empty container.

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 other means, refer 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

(Metal containers) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. (Plastic containers greater than 1 Gallon) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or incineration, if allowed by state and local authorities, by burning. If burned, stay out of smoke. (5 Gallon or less) Wrap and discard in trash.

LONZA FORMULATIONS

Disinfectant-Cleaner-Sanitizer-Fungicide-Mildewicide
for Hospitals, Institutional and Industrial Use
Effective in hard water up to 400 ppm (hardness as CaCO₃) in the presence of 5% surfactant

Ingredients
Benzalkonium chloride
Alcohol

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Registration No.
EPA Distribution No.
Federal Controls

Manufactured by:
LONZA INC., 17-17 Route 208, Fairport, NY 14455

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Cross contamination is a major housekeeping concern not only in hospitals, but in schools, institutions, and industry. **LONZA FORMULATION DC-108N** has been formulated to aid in the reduction of cross-contamination in these areas.

LONZA FORMULATION DC-108N a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal* (including HIV-1), fungicidal, and inhibits mold and mildew and their odors when used as directed.

LONZA FORMULATION DC-108N is an effective one-step sanitizer-cleaner for non-food contact surfaces. When used as directed, **LONZA FORMULATION DC-108N** 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.

LONZA FORMULATION DC-108N 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.

LONZA FORMULATION DC-108N is recommended for use in hospitals, medical and dental offices, nursing homes, public rest rooms, institutions, schools, colleges, athletic facilities, and processing plants, food storage areas, kitchens, restaurants and bars, airports, train and bus terminals, hotels and motels. For use in households. This product contains no phosphorus.

LONZA FORMULATION DC-108N is a no-rinse neutral pH disinfectant cleaner that quickly cleans and deodorizes in one labor-saving step.

LONZA FORMULATION DC-108N can be used with a mop and bucket, trigger sprayer, sponge, or by soaking.

LONZA FORMULATION DC-108N provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.

LONZA FORMULATION DC-108N maximizes labor results by effectively controlling odors.

LONZA FORMULATION DC-108N Cleans, shines, deodorizes and disinfects all hard non-porous household surfaces. Inhibits the growth mold and mildew, leaving bathrooms & kitchens clean and smelling fresh.

LONZA FORMULATION DC-108N is recommended for non-scratch cleaning of sinks and tubs, shower doors and curtains, fixtures, and toilet bowls.

LONZA FORMULATION DC-108N is for use in kitchens, bathrooms and other household areas.

LONZA FORMULATION DC-108N kills household germs in 10 minutes; effective against harmful pseudomonas, staph and strep, influenza A PR and athlete's foot fungus.

LONZA FORMULATION DC-108N is a neutral pH multi-surface cleaner, deodorizer, and disinfectant. Use on windows, mirrors, and other glass surfaces.

Use **LONZA FORMULATION DC-108N** on the multi-touch surfaces responsible for cross-contamination.

Use **LONZA FORMULATION DC-108N** on finished floors, high speed burnished floors, concrete flooring, tables, chairs, bathroom bowls, basins, countertops, bed rails, door knobs and handles, glass surfaces including windows and mirrors.

LONZA FORMULATION DC-108N is recommended for Poultry Premise Sanitation (Hatcheries):

Egg Rinsing Area	Tray Dumping Area	Chick Processing Area
Egg Washing Area	Chick Holding Room	Chick Loading Area
Enter Room	Hatchery Room	Poultry Buildings

LONZA FORMULATION DC-108N is recommended for Swine Premise Sanitation:

Farrowing Bars and Areas	Dressing Plants	Blocks
Feeding and Feeders	Loading Equipment	Creep Area
Water Equipment	Nursery	Chutes

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LONZA FORMULATION DC-108N is a Hospital Use Disinfectant at 1/2 ounce per gallon (4 milliliters per liter, 1:256 dilution), modified in the presence of 250 ppm hard water and 2/3 ounce per gallon (5 milliliters per liter, 1:200 dilution), modified in the presence of 400 ppm hard water. **LONZA FORMULATION DC-108N** is Bactericidal according to the AOAC 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 matter against:

- | | |
|---|--|
| Pseudomonas aeruginosa | Proteus vulgaris |
| Salmonella choleraesuis | Salmonella schottmuelerei |
| Staphylococcus aureus | Salmonella typhi |
| Staphylococcus aureus-(Methicillin resistant, MRSA) | Salmonella typhimurium |
| Brevibacterium ammoniagenes | Serratia marcescens |
| Chlamydia psittaci | Shigella dysenteriae |
| Enterobacter aerogenes | Shigella flexneri |
| Enterobacter cloacae | Shigella sonnei |
| Escherichia coli | Staphylococcus epidermidis |
| Escherichia coli-(Methicillin resistant) | Streptococcus faecalis |
| Klebsiella pneumoniae | Streptococcus faecalis (Methicillin resistant) |
| Klebsiella pneumoniae-(Methicillin resistant) | Streptococcus pyogenes |
| Aspergillus niger | Candida albicans |
| Trichophyton mentagrophytes | |
| HIV-1 (AIDS virus) | Herpes Simplex Type 2 |
| Influenza A/PR | Rubella |
| Herpes Simplex Type 1 | Vaccinia |

LONZA FORMULATION DC-108N is a sanitizer for hard non-porous non-food contact surfaces at 1/2 - 2/3 ounces per gallon (4-5 milliliters per liter) against:

- | | |
|------------------------|-----------------------|
| Enterobacter aerogenes | Staphylococcus aureus |
|------------------------|-----------------------|

PRECAUTION:
En español e inglés, solicite instrucciones a su supervisor antes de este producto.

PRECAUTION:
Violación de la Ley Federal to use this product in a manner inconsistent with its labeling.
El uso de este producto de manera contraria a lo indicado en su etiqueta constituye una violación de la Ley Federal.)

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 blood stream or normally sterile areas of the body, or (2) contacts intact mucous membranes but 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.)

Este producto no debe usarse en ninguna superficie o instrumento que: (1) haya de introducirse directamente en el organismo humano, ya sea en la circulación sanguínea o en contacto con esta o con zonas orgánicas normalmente estériles, o (2) haya de entrar en contacto con mucosas intactas aunque habitualmente no atraviese la barrera hematoencefálica de alguna otra manera en zonas normalmente estériles del organismo.)

Preparation of use-solution:
For use on surfaces up to 250 ppm add 1/2 ounce per gallon (4 milliliters per liter) of water (1:256) for water hardness up to 400 ppm add 2/3 ounce per gallon (5 milliliters per liter) of water (1:200) to disinfect hard, non-porous surfaces.

For heavy duty use, add 2 ounces per gallon (64 milliliters per liter) of water (1:64), to disinfect hard, non-porous surfaces.

Preparación de solución utilizable:
Para uso en superficies hasta 250 ppm agregar 1/2 onza por galón (4 milliliters por liter) de agua (1:256) para agua dura hasta 400 ppm agregar 2/3 onza por galón (5 milliliters por liter) de agua (1:200) para desinfectar superficies duras no porosas.
Para uso de limpieza pesada, agregar (2 onza por galón, 16 milliliters por liter) de agua (1:64), para desinfectar superficies duras no porosas.)

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Disinfection/Virucidal/Mold and Mildew Control directions:

Apply **use-solution** to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge, or sprayer.

(Instrucciones de desinfección/control de virucidad/moho y enmohecimiento)

Aplicar la **solución utilizable** a superficies duras (inanimadas) no porosas, incluyendo completamente las superficies según lo recomendado y requerido, con un trapo, estropajo, esponja o rociador.)

For heavily soiled areas, a preliminary cleaning is required
(Para áreas muy manchas, se requiere una limpieza preliminar.)

For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface, use a brush, sponge or cloth. Do not breathe spray mist.
(Para aplicaciones de rociador, utilizar un aparato de rociado grueso. Rocíar 6 a 8 pulgadas desde la superficie, frotar con un cepillo, esponja o trapo. No respirar el vapor del rociador.)

Disinfection/Virucidal directions:

Add 1/2 ounce per gallon of water, to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes (2 minutes for disinfection against all viruses claimed). Use a fresh solution daily or when use solution becomes diluted or soiled.

Mold and Mildew Control directions:

Add 1/2 ounce per gallon of water, to control the growth of mold and mildew and their odor on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear.

Sanitizing Non-Food Contact Surface directions:

Add 1/2 - 2/3 ounce per gallon (4-5 milliliters per liter) of water, to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.
(Instrucciones de esterilización de superficies que no están en contacto con alimentos):
Agregar 1/2 - 2/3 onza por galón (4-5 milliliters por liter) de agua, para esterilizar superficies duras no porosas en contacto con el medio ambiente. Las superficies tratadas deben mantenerse mojadas durante 60 segundos.)

Non-Acid Toilet Bowl Disinfectant/Cleaner directions:

Apply 1/2 - 2/3 ounce (15-20 milliliters) to the toilet bowl and mix. Brush thoroughly over exposed surfaces including under the rim, allow to stand for 10 minutes and flush.

Use-solution:
Apply to toilet bowl or urinal and apply 1/2 - 2/3 ounce per gallon (4-5 milliliters per liter) **use-solution** to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush.

For heavy-duty use:
Apply to toilet bowl or urinal and apply (2 ounces per gallon, 16 milliliters per liter) **use-solution** to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush.

Instrucciones para el desinfectante/limpiador no ácido de inodoro:

Con el concentrado:
Agregar 1/2 - 2/3 onza (15-20 milliliters) a la taza del inodoro y mezclar. Cepillar completamente sobre las superficies expuestas y debajo del reborde, dejando setar por 10 minutos y correr el agua.

Para uso utilizable:
Vaciar la taza del inodoro o orinal y aplicar una **solución utilizable** de 1/2 - 2/3 onza por galón (4-5 milliliters por liter) a las superficies expuestas, inclusive debajo del reborde, con un trapo, estropajo, esponja o rociador, dejar estar por 10 minutos y correr el agua.

Para uso pesado:
Vaciar la taza del inodoro o orinal y aplicar una **solución utilizable** de 2 onzas por galón a las superficies expuestas, inclusive debajo del reborde, con un trapo, estropajo, esponja o rociador, dejar estar por 10 minutos y correr el agua.)

Window Cleaning/Deodorizing Directions:

Add 1/2 - 1 ounce per gallon, (2-8 milliliters per liter) of water to clean and deodorize windows, mirrors and glass surfaces.
Use coarse spray device. Spray 6-8 inches from surface, rub with sponge or cloth. Do not breathe spray mist.

Instructions para el limpiador/desodorizar superficies vidrio:
Agregar 1/2 - 1 onza por galón, (2-8 milliliters por liter) de agua, para limpiar y desodorizar ventanas, espejos y superficies vidrio.
Utilizar aparato de rociado grueso. Rocíar 6 a 8 pulgadas desde la superficie, frotar con un trapo, esponja o trapo. No respirar el vapor del rociador.)

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*** KILLS HIV ON PRECLEANED 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 in which the surfaces/objects likely to be soiled with blood or body fluids can be assumed to have the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV 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**.

CONTACT TIME: Leave surface wet for 2 minutes with 1/2 ounce per gallon (4 milliliters per liter) **use-solution**. Use a 10 minute contact time for disinfection against all other bacteria, and fungi claimed.

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

(* MATA EL VIH EN SUPERFICIES/OBJECTOS EXPUESTOS AL MEDIO AMBIENTE PREVIAMENTE CONTAMINADOS CON SANGRE/LIQUIDOS CORPORALES, CUANDO SE REALIZA LA LIMPIEZA PREVIAMENTE, en lugares destinados al cuidado de la salud u otros lugares en los que se prevea la posibilidad de contaminación de superficies/objetos inanimados con sangre o líquidos corporales y en los que dichas superficies/objetos pueden estar sucios por el potencial de transmisión del virus de la inmunodeficiencia humana tipo 1 (VIH-1) (asociado con el SIDA).

"INSTRUCCIONES ESPECIALES PARA LA LIMPIEZA Y DESCONTAMINACION CONTRA EL VIH SOBRE SUPERFICIES/OBJECTOS CONTAMINADOS CON SANGRE/LIQUIDOS CORPORALES"

PROTECCION PERSONAL: La limpieza deberá hacerse siempre usando guantes de látex, bata, mascarillas y protección de la vista.

PROCEDIMIENTO DE LIMPIEZA: La sangre y otros líquidos corporales que contienen el VIH deben limpiarse completamente de las superficies y los objetos antes de aplicar **LONZA FORMULATION HC-108N**.

TIEMPO DE CONTACTO: Dejar la superficie mojada durante 2 minutos con 1/2 onza por galón (4 mililitros por litro) de solución utilizable. Dejar 10 minutos de tiempo contacto para la desinfección contra todos los otros virus, bacterias y hongos declarados.

DISPOSICION DE MATERIALES INFECCIOSOS: La sangre, los líquidos corporales, los materiales de limpieza y ropa deben someterse al autoclave y eliminarse de acuerdo con la legislación local sobre eliminación de desechos infecciosos.)

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POULTRY (and SWINE) PREMISE SANITATION

SITE PREPARATION

The first step in any on-going sanitation program should be the removal of gross dirt, manure 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 may be accomplished in one easy step.

CLEANING AND DISINFECTION

For all general cleaning and disinfection, use 1/2 - 2/3 ounce of **LONZA FORMULATION DC-108N** per gallon of water (1:256 solution). Apply **LONZA FORMULATION DC-108N** using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution after each use.

APPLICATIONS AND USE DILUTION

POULTRY (and SWINE) PREMISE

Remove all animals and feeds from premises, trucks, cages, and crates. Remove all droppings and manure from floors, walls and surfaces of facilities occupied or frequented 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 1/2 - 2/3 ounce of **LONZA FORMULATION DC-108N** per gallon of water. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Immerse all handles, feet, and other types of equipment used in handling and restraining animals, as well as shovels, and scrapers used for removing litter and manure.

HATCHERIES: Use 1/2 - 2/3 ounce of **LONZA FORMULATION DC-108N** per gallon of water to treat hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hatching equipment. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

VEHICLES: Clean all vehicles including mats, crates, cages, and wheels with hot pressure water and **LONZA FORMULATION DC-108N**. Use 1/2 - 2/3 ounce per gallon to treat all surfaces of vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

SHOES: Shoe baths containing one inch of freshly made disinfectant solution should be placed at all entrances to buildings and hatcheries. Change the disinfectant solution in the bath when the solution appears dirty.

PLANT USE: Disinfect equipment, utensils, walls and floors in poultry and animal enclosures. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution 1/2 ounce per gallon. Scrub to loosen all soils. Allow to remain wet for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

APPLICATIONS AND USE DILUTION

POULTRY (and SWINE) PREMISES

POULTRY (and SWINE) 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. Mix one part **LONZA FORMULATION DC-108N** to five parts water (1/2 gallons **LONZA FORMULATION DC-108N** 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 volume in the room.

POULTRY (and SWINE) INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 3-8 ounces **LONZA FORMULATION DC-108N** to 122 ounces water. Fog 3-8 ounces of this solution in incubators 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 anyone to contact or breath 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 1/2 - 2/3 ounce per gallon solution of **LONZA FORMULATION DC-108N** 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 use equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, 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 should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

DISINFECTANT SOLUTIONS SHOULD BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND PRE-CLEANING OF ROOM AND MACHINE SURFACES.

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WATER

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 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.

Precautionary Statements Hazards 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. Irritant or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.

STORAGE AND DISPOSAL

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PESTICIDE DISPOSAL

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CONTAINER DISPOSAL

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LONZA FORMULATION DC-108N

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

Effective in hard water up to 400 ppm hardness (Calculated as CaCO₃) in the presence of 5% surfactant contamination

Active Ingredients

Dibecyl dimethyl ammonium chloride 15.36%

Inert Ingredients

84.64%

100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER

PELIGRO

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Registration No.

6836-205

EPA Establishment No.

6836-IL-1

Net Contents

Manufactured by:

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

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LONZA FORMULATION DC-108N is recommended for use in hospitals, medical and dental offices, nursing homes, public rest rooms, institutions, schools, colleges, athletic facilities, food processing plants, food storage areas, kitchens, restaurants and bars, airports, train and bus terminals, hotels and motels. For use in households. This product contains no phenols.

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LONZA FORMULATION DC-108N provides effective cleaning strength that will not damage metal-interlock floor finishes, and does not require a rinse prior to recoat.

LONZA FORMULATION DC-108N maximizes labor results by effectively controlling odor.

LONZA FORMULATION DC-108N Cleans, shines, deodorizes and disinfects all non-porous household surfaces. Inhibits the growth mold and mildew, leaving bathrooms and floors clean and smelling fresh.

LONZA FORMULATION DC-108N is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures, and toilet bowls.

LONZA FORMULATION DC-108N is for use in kitchen, bathrooms and other high traffic areas.

LONZA FORMULATION DC-108N kills household germs in 10 minutes: effective against harmful pseudomonas, staph and strep, influenza A, PR and athlete's foot fungus.

LONZA FORMULATION DC-108N is a neutral pH multi-surface cleaner, deodorizer, and disinfectant. Use on windows, mirrors, and other glass surfaces.

LONZA FORMULATION DC-108N on the multi-touch surfaces responsible for cross-contamination.

LONZA FORMULATION DC-108N on finished floors, high speed burnished floors, linoleum flooring, tables, chairs, bathroom bowls, basins, countertops, bed rails, door knobs and handles, glass surfaces including windows and mirrors.

LONZA FORMULATION DC-108N is recommended for Poultry Premise Sanitation (Indoor):

Tray Holding Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Room	Chick Loading Area
Site Office	Hatchery Room	Poultry Buildings

LONZA FORMULATION DC-108N is recommended for Swine Premise Sanitation:

Tray Holding Area	Dressing Plants	Blocks
Tray Dumping Area	Loading Equipment	Creep Area
Tray Holding Area	Nursery	Chutes

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LONZA FORMULATION DC-108N is a Hospital Use Disinfectant at 1/2 ounce per gallon (4 milliliters per liter, 1:256 dilution), modified in the presence of 250 ppm hard water, and 2/3 ounce per gallon (5 milliliters per liter, 1:200 dilution), modified in the presence of 400 ppm hard water. **LONZA FORMULATION DC-108N** is Bactericidal according to the AOAC bactericidal test, 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 material against:

- | | |
|---|--|
| Pseudomonas aeruginosa | Proteus vulgaris |
| Salmonella choleraesuis | Salmonella schottmuelieri |
| Staphylococcus aureus | Salmonella typhi |
| Staphylococcus aureus-(Methicillin resistant, MRSA) | Salmonella typhimurium |
| Brevibacterium ammoniagenes | Serratia marcescens |
| Chlamydia psittaci | Shigella dysenteriae |
| Enterobacter aerogenes | Shigella flexneri |
| Enterobacter cloacae | Shigella sonnei |
| Escherichia coli | Staphylococcus epidermidis |
| Escherichia coli-(Methicillin resistant) | Streptococcus faecalis |
| Klebsiella pneumoniae | Streptococcus faecalis (Methicillin resistant) |
| Klebsiella pneumoniae-(Methicillin resistant) | Streptococcus pyogenes |
| Aspergillus niger | Candida albicans |
| Trichophyton mentagrophytes | |
| HIV-1 (AIDS virus) | Herpes Simplex Type 2 |
| Influenza A/PR | Eubella |
| Herpes Simplex Type 1 | Vaccinia |

LONZA FORMULATION DC-108N is a sanitizer for hard non-porous non-food contact surfaces at 1/2 - 2/3 ounces per gallon (4-5 milliliters per liter) against:

- | | |
|------------------------|-----------------------|
| Enterobacter aerogenes | Staphylococcus aureus |
|------------------------|-----------------------|

PREPARACION:

Para utilizar el inglés, solicite instrucciones a su supervisor antes de este producto.

Uso:
No es una violación de Federal Law to use this product in a manner inconsistent with its labeling.

Preparación de uso:
El uso de este producto de manera contraria a lo indicado en su etiqueta constituye una violación de la Ley Federal.)

(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 blood stream 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 preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.)

(Este producto no debe usarse en ninguna superficie o instrumento que: (1) haya de introducirse directamente en el organismo humano, ya sea en la circulación sanguínea o en contacto con ésta o con zonas orgánicas normalmente estériles, o (2) haya de entrar en contacto con mucosas intactas aunque habitualmente no atravesase la barrera hematoencefálica o no penetre de alguna otra manera en zonas normalmente estériles del organismo.)

Preparation of use-solution:

For water hardness up to 250 ppm add 1/2 ounce per gallon (4 milliliters per liter) of water (1:256) for water hardness up to 400 ppm add 2/3 ounce per gallon (5 milliliters per liter) of water (1:200), to disinfect hard, non-porous surfaces.

For heavy duty use, add 2 ounces per gallon (64 milliliters per liter) of water (1:64), to disinfect hard, non-porous surfaces.

(Preparación de solución utilizable:

Para agua dura hasta 250 ppm agregar 1/2 onza por galón (4 milliliters por liter) de agua (1:256) para agua dura hasta 400 ppm agregar 2/3 onza por galón (5 milliliters por liter) de agua (1:200), para desinfectar superficies duras no porosas.

Para uso pesado, agregar (2 onza por galón, 16 milliliters por liter) de agua (1:64), para desinfectar superficies duras no porosas.)

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Disinfection/Virucidal/Mold and Mildew Control directions:

Apply **use-solution** to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge, or sprayer.

(Instrucciones de desinfección/control de virucidad/moho y enmohecimiento:

Aplicar la **solución utilizable** a superficies duras (inanimadas) no porosas mojado completamente las superficies según lo recomendado y requerido, con un trapo, estropajo, esponja o rociador.)

For heavily soiled areas, a preliminary cleaning is required.
(Para áreas muy manchadas, se requiere una limpieza preliminar.)

For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface, with brush, sponge or cloth. Do not breathe spray mist.
(Para aplicaciones de rociador, utilizar un aparato de rociado grueso. Rociar 6 a 8 pulgadas desde la superficie, frotar con un cepillo, esponja o trapo. No respirar el vapor del rociador.)

Disinfection/Virucidal directions:

Add 1/2 ounce per gallon of water, to disinfect hard, non porous surfaces. Treated surfaces must remain **wet** for 10 minutes (2 minutes for disinfection against all viruses claimed). Prepare a fresh solution daily or when use solution becomes diluted or soiled.

Mold and Mildew Control directions:

Add 1/2 ounce per gallon of water, to control the growth of mold and mildew and eliminate odor on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let surfaces dry. Repeat application weekly or when growth or odor reappears.

Sanitizing Non-Food Contact Surface directions:

Add 1/2 - 2/3 ounce per gallon (4-5 milliliters per liter) of water, to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds.
(Instrucciones de esterilización de superficies que no están en contacto con alimentos:
Agregar 1/2 - 2/3 onza por galón (4-5 milliliters por liter) de agua, para esterilizar superficies duras no porosas en contacto con el medio ambiente. Las superficies tratadas deben mantenerse mojadas durante 60 segundos.)

Non-Acid Toilet Bowl Disinfectant/Cleaner directions:

From concentrate:

Add 1/2 - 2/3 ounce (15-20 milliliters) to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

From use-solution:

Empty toilet bowl or urinal and apply 1/2 - 2/3 ounce per gallon (4-5 milliliters per liter) **use-solution** to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush.

For heavy-duty use:

Empty toilet bowl or urinal and apply (2 ounces per gallon, 16 milliliters per liter) **use-solution** to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, allow to stand for 10 minutes and flush.

Directions para el desinfectante/limpiador no ácido de inodoro:

Con el concentrado:

Agregar 1/2 - 2/3 onza (15-20 milliliters) a la taza del inodoro y mezclar. Cepillar completamente sobre las superficies expuestas y debajo del reborde, dejando setar por 10 minutos y correr el agua.

Con la solución utilizable:

Vaciar la taza del inodoro o orinal y aplicar una **solución utilizable** de 1/2 - 2/3 onza por galón (4-5 milliliters por liter) a las superficies expuestas, inclusive debajo del reborde, con un trapo, estropajo, esponja o rociador, dejar estar por 10 minutos y correr el agua.

Para uso pesado:

Vaciar la taza del inodoro o orinal y aplicar una **solución utilizable** de 2 onzas por galón a las superficies expuestas, inclusive debajo del reborde, con un trapo, estropajo, esponja o rociador, dejar estar por 10 minutos y correr el agua.)

Glass Cleaning/Deodorizing Directions:

Add (0.25-1 ounce per gallon, 2-8 milliliters per liter) of water to clean and deodorize windows, mirrors, and glass surfaces.

Use a coarse spray device. Spray 6-8 inches from surface, rub with sponge or cloth. Do not breathe spray mist.

Instrucciones para el limpiador/desodorizar superficies vidrio:

Agregar (0.25-1 onza por galón, 2-8 milliliters por liter) de agua, para limpiar y desodorizar ventanas, espejos y superficies vidrio.

Utilizar un aparato de rociado grueso. Rociar 6 a 8 pulgadas desde la superficie, frotar con un trapo, esponja o trapo. No respirar el vapor del rociador.)

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* **KILLS HIV ON PRECLEANED 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 ON SURFACES /OBJECTS SOILED WITH BLOOD/BODY FLUIDS."

PERSONAL PROTECTION: Clean-up should always be done wearing protective clothing, 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 DC-108N**.

CONTACT TIME: Leave surface wet for 2 minutes with 1/2 ounce per gallon (4 milliliters per liter) **use-solution**. Use a 10 minute contact time for disinfection against all other bacteria and fungi claimed.

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

ELIMINA EL VIH EN SUPERFICIES/OBJECTOS EXPUESTOS AL MEDIO AMBIENTE ANTES DE SER PREVIAMENTE CONTAMINADOS CON SANGRE/LIQUIDOS CORPORALES, CUANDO SE HAYAN LIMPIADO PREVIAMENTE, en lugares destinados al cuidado de la salud u otros lugares donde se prevea la posibilidad de contaminación de superficies/objetos inanimados con sangre o líquidos corporales y en los que dichas superficies/objetos pueden estar relacionados con el potencial de transmisión del virus de la inmunodeficiencia humana tipo 1 (VIH-1) asociado con el SIDA).

"INSTRUCCIONES ESPECIALES PARA LA LIMPIEZA Y DESCONTAMINACION CONTRA EL VIH-1 SOBRE SUPERFICIES/OBJECTOS CONTAMINADOS CON SANGRE/LIQUIDOS CORPORALES."

PROTECCION PERSONAL: La limpieza deberá hacerse siempre usando guantes de látex protectores, batas, máscaras y protección de la vista.

PROCEDIMIENTO DE LIMPIEZA: La sangre y otros líquidos corporales que contienen el VIH deben limpiarse completamente de las superficies y los objetos antes de aplicar **LONZA FORMULATION DC-108N**.

TIEMPO DE CONTACTO: Dejar la superficie mojada durante 2 minutos con 1/2 onza por galón (4 mililiters por liter) de solución utilizable. Dejar 10 minutos de tiempo contacto para la desinfección contra todos los otros virus, bacterias y hongos declarados.

ELIMINACION DE MATERIALES INFECCIOSOS: La sangre, los líquidos corporales, materiales de limpieza y ropa deben someterse al autoclave y eliminarse de acuerdo con la legislación local sobre eliminación de desechos infecciosos.)

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POULTRY (and SWINE) PREMISE SANITATION

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 AND DISINFECTION

For all general cleaning and disinfection, use 1/2 - 2/3 ounce of **LONZA FORMULATION DC-108N** per gallon of water (1:256 solution). Apply **LONZA FORMULATION DC-108N** using a cloth, mop, or pressure sprayer so as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution after each use.

APPLICATIONS AND USE DILUTION

POULTRY (and SWINE) PREMISE

Remove all animals and feeds from premises, trucks, coops, and crates. Remove litter, droppings and manure from floors, walls and surfaces of facilities occupied or frequented 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 1/2 - 2/3 ounce of **LONZA FORMULATION DC-103N** per gallon of water. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Immerse all hangers, pens, and other types of equipment used in handling and restraining animals, as well as shovels, shovels, and scrapers used for removing litter and manure.

HATCHERIES: Use 1/2 - 2/3 ounce of **LONZA FORMULATION DC-108N** per gallon of water to treat hatcher, setters, trays, racks, carts, sexing tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and **LONZA FORMULATION DC-108N**. Use 1/2 - 2/3 ounce per gallon to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

SHOE BATHS: Shoe baths containing one inch of freshly made disinfectant solution should be placed at all entrances to buildings and hatcheries. Change the disinfectant solution in the bath daily or when solution appears dirty.

DRESSING PLANT USE: Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Always remove all food and packaging materials. **Řešivě** all gross soils. Saturate all surfaces with recommended use solution 1/2 ounce per gallon. Scrub to loosen all soils. Allow to stand for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

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. Mix one part **LONZA FORMULATION DC-108N** to five parts water (1/2 gallons **LONZA FORMULATION DC-108N** 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.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES

Mix 6 ounces **LONZA FORMULATION DC-108N** to 122 ounces water. Fog 3-8 ounces 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 breath 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 1/2 - 2/3 ounce per gallon solution of **LONZA FORMULATION DC-108N** 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, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. 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 DISINFECTION OF ROOM AND MACHINE SURFACES.

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

Check if this is a new address

(b)(i), my product is similar or identical in composition and labeling to:

EPA Reg. No. _____

Product Name _____

Section - II

- Amendment - Explain below.
- Resubmission in response to Agency letter dated _____
- Notification - Explain below.
- Final printed labels in response to Agency letter dated _____
- "Me Too" Application.
- Other - Explain below.

Explanation: (This information is not to be used for regulatory purposes.) Notification updating storage & disposal information for product (name, EPA Reg. No., and other information) in response to Agency letter dated _____.

Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)	
* Certification must be submitted	Unit Package Wgt. _____	No. per container _____	Package wgt _____	No. per container _____

3. Manner in Which Label is Affixed to Product
 On Label
 On Labeling accompanying product
 Other _____

6. Manner in Which Label is Affixed to Product
 Lithograph
 Paper/Plast
 Stenciled
 Other _____

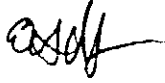
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Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Eliot I. Harrison	Title Agent for Lonza	Telephone No. (Include Area Code) (301) 652-5495
------------------------	-----------------------	---

Certification
 I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Agent for Lonza	6. Agency Application Received (Stamped)
4. Typed Name Eliot I. Harrison	5. Date November 17, 1995	

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this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Faint, illegible text or markings in the bottom right corner of the page.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

DANGER

HARMFUL IF SWALLOWED. HIGHLY CORROSIVE. Causes eye and skin damage. Irritating to nose and throat. Avoid breathing dust. Use with adequate ventilation. Do not get into eyes, on skin or clothing. Wear rubber gloves, chemical goggles and face shield when handling. Immediately remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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.

PHYSICAL AND CHEMICAL HAZARDS

CHEMICAL HAZARD: STRONG OXIDIZING AGENT. Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, or possible explosion and explosion. In case of contamination or decomposition, do not handle in a confined space. If possible, isolate containers and remove them from the area. Do not use damaged containers.

For more information on this pesticide, contact your local pesticide dealer or the manufacturer.

Keep out of reach of children.

Do not use this pesticide in a confined space unless you have adequate ventilation.

For more information on this pesticide, contact your local pesticide dealer or the state pesticide or environmental control agent or the hazardous waste representative at the nearest EPA regional office for guidance.

METAL AND PLASTIC CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other approved method for disposal. Do not reuse or burn. Do not discharge into the environment.

FIGURE 1: HOW TO APPLY: Do not apply by shaking and blowing into the air stream to create dust particles. Then discharge into a stream in a sanitary landfill or other approved method by state and local officials. Do not reuse empty drum or can.

**DANTOBROM RW
GRANULAR**

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Active Ingredients

1-bromo-3-chloro-5,5-dimethylhydantoin	60.0%
1,3-dichloro-5,5-dimethylhydantoin	27.4%
1,3-dichloro-5-ethyl-5-methylhydantoin	10.6%

Inert Ingredients

2.0%

TOTAL

100.0%

Available bromine	39.2%
Available chlorine	39.9%

EPA Reg. No. 6836-237
EPA Est. No. 6836-PA-01
NET CONTENTS:
(as marked on container)

KEEP OUT OF REACH OF CHILDREN

DANGER

Do not breathe dust. Avoid contact with skin and clothing. Avoid contact with eyes. If contact with eyes occurs, flush with water for 15 minutes. If contact with skin or clothing occurs, remove contaminated clothing and wash immediately with soap and water. If contact with eyes occurs, flush with water for 15 minutes. If contact with skin or clothing occurs, remove contaminated clothing and wash immediately with soap and water. Get immediate medical attention if necessary.

If inhaled, remove from area to fresh air. If not breathing, clear airway and start mouth-to-mouth or artificial respiration or use a bag-mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.

If swallowed, immediately give several glasses of water. DO NOT induce vomiting. If vomiting occurs, give fluids. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

If swallowed, immediately give several glasses of water. DO NOT induce vomiting. If vomiting occurs, give fluids. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

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

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

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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.

RECIRCULATING COOLING WATER SYSTEMS AND SEWAGE SYSTEMS

DANTOBROM RW GRANULAR aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water towers, influent systems such as flow through filters, industrial water scrubbing systems, brewery pasteurizers, sewage systems (septic tanks, leach fields, tank lines, sewers, lagoons, and sewage effluent water), photo processing wash water and paper and paperboard process water.

This product may be added to the systems either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon the severity of the problem.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA AND FUNGI

Intermittent or Slug Method

INITIAL DOSE: When the system is noticeably fouled add 0.1 to 1.0 lbs. to 1000 gallons or 12 to 120 parts per million of the water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident add 0.1 to 0.75 pounds to 1000 gals. or 12 to 90 parts per million of water in the system every 3 days or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL DOSE: When a system is noticeably fouled, add 0.1 to 1.0 pounds to 1000 gallons of water in the system.

CONTINUOUS FEED METHOD

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CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled add 0.1 to 1.0 pounds to 1000 gallons of water in the system.

SUBSEQUENT DOSE: When microbial control is evident, add 0.1 to 0.75 pounds to 1000 gallons of water in the system every 3 days or as needed to maintain control.

CAUTION:

Do not use in drinking water systems or in systems for maintaining shellfish or other aquatic life.

DANTOBROM RW GRANULAR controls slime forming bacteria, fungi and algae in industrial airwasher systems. Add DANTOBROM RW GRANULAR at the rate of 0.1 to 1.0 pounds (12 to 120 ppm) per 1000 gallons of water in the system, depending upon the severity of the contamination.

Control the application by measuring the free chlorine residual in the treated water. There is no need to exceed 1.0 ppm as free chlorine.

Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When system is noticeably fouled add to airwasher sump or chill water sump to insure uniform mixing. Add 0.1 to 1.0 pounds to 1000 gallons or 12 to 120 parts per million of water.

SUBSEQUENT DOSE: When microbial control is evident add 0.1 to 0.60 pounds to 1000 gals. or 12 to 72 parts per million of water.

CONTINUOUS FEED METHOD

INITIAL DOSE: When system is noticeably fouled add to airwasher sump or chill water sump to insure uniform mixing. Add 0.1 to 1.0 pounds to 1000 gallons or 12 to 120 parts per million of water.

SUBSEQUENT DOSE: When microbial control is evident add 0.1 to 0.6 pounds to 1000 gallons or 12 to 72 parts per million of water.

FOR INDUSTRIAL USE ONLY

Technical advice regarding specific on site problems are available from LONZA INC. A Material Safety Data Sheet relative to the use of this product is also available upon request.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

When used as directed, DANTOBROM RW GRANULAR effectively control algal, bacterial, fungal slimes and mollusks in open or closed-cycle, fresh or salt water, once-through cooling systems. Treat cooling water with DANTOBROM RW GRANULAR at the system intake or other critical areas, where mixing is uniform.

DOSAGE RATES

INITIAL DOSE: When system is noticeably fouled, add 0.2-0.6 lbs./1000 gallons of water contained in the system. Repeat initial dosage until one to three ppm (mg/L) bromine residual is established for at least 4 hours.

SUBSEQUENT DOSE: When microbial control is evident, add 0.1 to 0.3 lbs./1000 gallons of water contained in the system. Repeat as needed to maintain one to three ppm bromine residual for at least 4 hours.

FOR USE IN CANISTERS

CAUTION: Take safety precautions when handling this product. Hold canister upright. Do not use in drinking water systems or in systems for maintaining shellfish or other aquatic life. Do not use in air washer systems. Do not use in systems for maintaining shellfish or other aquatic life. Do not use in systems for maintaining shellfish or other aquatic life.

Do not use in drinking water systems or in systems for maintaining shellfish or other aquatic life.

PRECAUTION:

The warranty will be void if this canister is not used with the appropriate feeder. Fire or explosion may result if this canister is used with an incorrect chemical feeder.

NOTE: Some staining may occur during application.

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The photoprocessing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of Dantobrom RW Granular is NOT intended to remove an existing buildup of biological growth. Dantobrom RW Granular slowly releases both hypobromous and hypochlorous acid when exposed to a flow of water. To prevent or substantially reduce biological growth, Dantobrom RW Granular may be introduced into the wash water by suspending Dantobrom RW Granular directly in the wash tanks as far as possible from film or paper and away from areas of extreme turbulence. Begin by placing Dantobrom RW Granular in the wash tank. If biological growth is observed, add more Dantobrom RW Granular waiting several hours between additions. To prevent film damage, rinse Dantobrom RW Granular in water before placing into wash tank. It is intended that 1.0 to 3.0 ppm of residual bromine be introduced into the water supply line. 3 to 9 grams of Dantobrom RW Granular will introduce 1.0 to 3.0 ppm residual bromine in 1,000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of bromine chlorine into the processor wash tanks, a bromine test kit should be used to periodically test the water in the wash tanks. If a residual above 3.0 ppm is indicated, remove Dantobrom RW Granular until the residual drops to 1.0 ppm. If the processor is turned off for any extended period of time, the Dantobrom RW Granular in the wash tanks should be removed.

NOTE: Seller liability under all warranties, expressed or implied, is limited to replacement of defective product and seller shall have no liability for consequential damages.

Paper and Paperboard Process Water

This product is intended for use as an additive for the process water used in the manufacture of paper and paperboard products.

Use 3 to 9 grams per 1,000 gallons of water to achieve 1.0 to 3.0 ppm. Residuals should be tested periodically.

SEE INSTRUCTIONS

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DANGER

HARMFUL IF SWALLOWED. HIGHLY CORROSIVE. Causes eye and skin damage. Irritating to nose and throat. Avoid breathing dust. Use with adequate ventilation. Do not get into eyes, on skin or clothing. Wear rubber gloves, chemical goggles and face shield when handling. Immediately remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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.

PHYSICAL AND CHEMICAL HAZARDS

CHEMICAL HAZARD: STRONG OXIDIZING AGENT. Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air.

Container Disposal: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by State and local authorities. Do not reuse empty drum or liner.

Pesticide Disposal: Pesticides wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal, State and local laws. Do not discharge into any waterway. Use only in accordance with label directions. Do not mix with other pesticides. Do not mix with food, feed, or other products.

Container Disposal:

Metal and Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate or burn if allowed by State and local authorities. If burned, stay out of smoke.

Fiber Drums and Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Then dispose of liner and drum in a sanitary landfill or incinerate if allowed by State and local authorities. Do not reuse empty drum or liner.

Active Ingredients

1-bromo-3-chloro-5,5-dimethylhydantoin	60.0%
1,3-dichloro-5,5-dimethylhydantoin	27.4%
1,3-dichloro-5-ethyl-5-methylhydantoin	10.6%

Inert Ingredients

2.0%

TOTAL

100.0%

Available bromine	39.2%
Available chlorine	39.9%

EPA Reg. No. 6836-237
EPA Est. No. 6836-PA-01
NET CONTENTS:
(as marked on container)

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF FIRST AID TREATMENT

For eye contact: flush with large amounts of running water for at least 15 minutes. Hold eyelids open to ensure flushing of the entire surface of the eye and flush with water. If physician not available, flush for additional 15 minutes. Get immediate medical attention.

For skin contact: flush with water. Remove contaminated clothing and shoes. Under a safety shower, wash exposed areas thoroughly with soap and water for at least 15 minutes. Get immediate medical attention. Discard or decontaminate clothing and shoes.

If inhaled: remove to an area to breathe fresh air. If breathing is difficult and start coughing, stop work. If respiratory distress occurs, wear mask and remove. Get immediate medical attention. Do not induce vomiting. If unconscious, do not give anything by mouth. If available, give supplemental oxygen.

If swallowed: immediately give several glasses of water. DO NOT induce vomiting. If vomiting occurs, give fluids again. Have physician determine if patient's condition allows induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

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

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

DIRECTIONS FOR USE

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

RECIRCULATING COOLING WATER SYSTEMS AND SEWAGE SYSTEMS

DANTOBROM RW GRANULAR aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water towers, influent systems such as flow through filters, industrial water scrubbing systems, brewery pasteurizers, sewage systems (septic tanks, leach fields, tank lines, sewers, lagoons, and sewage effluent water), photo processing wash water and paper and paperboard process water.

This product may be added to the systems either continuously or intermittently or as needed. The frequency of feeding and duration of the treatment will depend upon the severity of the problem.

BADLY FOULED SYSTEMS must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA AND FUNGI

Intermittent or Slug Method

INITIAL DOSE: When the system is noticeably fouled add 0.1 to 1.0 lbs. to 1000 gallons or 12 to 120 parts per million of the water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident add 0.1 to 0.75 pounds to 1000 gals. or 12 to 90 parts per million of water in the system every 3 days or as needed to maintain control.

CONTINUOUS FEED METHOD

INITIAL DOSE: When a system is noticeably fouled, add 0.1 to 1.0 pounds to 1000 gals. or 12 to 120 parts per million of water in the system.

CONTINUOUS FEED METHOD

INITIAL DOSE: When a system is noticeably fouled, add 0.1 to 1.0 pounds to 1000 gals. or 12 to 120 parts per million of water in the system.

SUBSEQUENT DOSE: When microbial control is evident, add 0.1 to 0.3 lbs./1000 gallons of water contained in the system. Repeat as needed to maintain one to three ppm residual.

FOR INDUSTRIAL USE ONLY

For use only in industrial airwasher systems that maintain effective mist eliminating components.

DANTOBROM RW GRANULAR controls slime forming bacteria, fungi and algae in industrial airwasher systems. Add DANTOBROM RW GRANULAR at the rate of 0.1 to 1.0 pounds (12 to 120 ppm) per 1000 gallons of water in the system, depending upon the severity of the contamination.

Control the application by measuring the free chlorine residual in the treated water. There is no need to exceed 1.0 ppm as free chlorine.

Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When system is noticeably fouled add to airwasher sump or chill water sump to insure uniform mixing. Add 0.1 to 1.0 pounds to 1000 gallons or 12 to 120 parts per million of water.

SUBSEQUENT DOSE: When microbial control is evident add 0.1 to 0.60 pounds to 1000 gals. or 12 to 72 parts per million of water.

CONTINUOUS FEED METHOD

INITIAL DOSE: When system is noticeably fouled add to airwasher sump or chill water sump to insure uniform mixing. Add 0.1 to 1.0 pounds to 1000 gallons or 12 to 120 parts per million of water.

SUBSEQUENT DOSE: When microbial control is evident add 0.1 to 0.6 pounds to 1000 gallons or 12 to 72 parts per million of water.

FOR INDUSTRIAL USE ONLY

Technical advice regarding specific on site problems are available from LONZA INC. A Material Safety Data Sheet relative to the use of this product is also available upon request.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

When used as directed, DANTOBROM RW GRANULAR effectively control algal, bacterial, fungal slimes and mollusks in open or closed-cycle, fresh or salt water, once-through cooling systems. Treat cooling water with DANTOBROM RW GRANULAR at the system intake or other critical areas, where mixing is uniform.

DOSAGE RATES

INITIAL DOSE: When system is noticeably fouled, add 0.2-0.6 lbs./1000 gallons of water contained in the system. Repeat initial dosage until one to three ppm (mg/L) bromine residual is established for at least 4 hours.

SUBSEQUENT DOSE: When microbial control is evident, add 0.1 to 0.3 lbs./1000 gallons of water contained in the system. Repeat as needed to maintain one to three ppm residual.

FOR USE IN CANISTERS

When used in a canister, the product should be added to the canister through the L-key located inside the feeder at the bottom. DO NOT use the canister for any other purpose. The canister is designed for use only in industrial airwasher systems that maintain effective mist eliminating components.

The warranty will be void if this canister is not used with the appropriate feeder. Fire or explosion may result if this canister is used with an incorrect chemical feeder.

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Photo Processing Wash Water

The photoprocessing system should first be properly cleaned with a mild hypochlorite solution following manufacturer's instructions. The use of Dantobrom RW Granular is NOT intended to remove an existing buildup of biological growth. Dantobrom RW Granular slowly releases both hypochlorous acid and hypochlorite ions. In the presence of biological growth, Dantobrom RW Granular may be introduced into the wash water by suspending Dantobrom RW Granular directly in the wash tanks as far as possible from film or paper and away from areas of extreme turbulence. Begin by placing Dantobrom RW Granular in the wash tank. If biological growth is observed, add more Dantobrom RW Granular waiting several hours between additions. To prevent film damage, rinse Dantobrom RW Granular in water before placing into wash tank. It is intended that 1.0 to 3.0 ppm of residual bromine be introduced into the water supply line. 3 to 9 grams of Dantobrom RW Granular will introduce 1.0 to 3.0 ppm residual bromine in 1,000 gallons of water. Actual use will depend on the amount of biological fouling. To avoid excess introduction of bromine chlorine into the processor wash tanks, a bromine test kit should be used to periodically test the water in the wash tanks. If a residual above 3.0 ppm is indicated, remove Dantobrom RW Granular until the residual drops to 1.0 ppm. If the processor is turned off for any extended period of time, the Dantobrom RW Granular in the wash tanks should be removed.

NOTE: Seller liability under all warranties, expressed or implied, is limited to replacement of defective product and seller shall have no liability for consequential damages.

Preparation and Use of Dantobrom RW Granular

1. Add 3 to 9 grams of Dantobrom RW Granular to the wash tank. The amount added in the wash tank should be based on the amount of biological growth present in the wash tank. Add 3 to 9 grams of Dantobrom RW Granular to 1,000 gallons of process water (25-30 ppm). Rinse it as described in the instructions. Wait 4 hours.

2. Rinse the wash tank with fresh water. Add 3 to 9 grams of Dantobrom RW Granular to the wash tank. Wait 4 hours.

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