

1/6

H&S Chemicals Division  
 c/o Lonza Inc.  
 17-17 Route 208  
 Fair Lawn, NJ 07410

JUL 12 2000

Subject: Formulation HS-1210 (3.85%)  
 EPA Registration No. 47371-147  
 Notification Per PR Notice 98-10

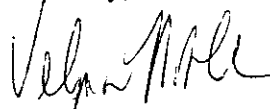
Attn: Ruth Trager  
 Manager, Regulatory Services

This will acknowledge receipt of your notification to change the designation of a non public health pest, correction of a typographical error in the dilution ratio, addition of the terminal sterilant paragraph, revision of company name and address to reflect transfer to Lonza Inc, delete the word "Prohibitions" in the Storage and Disposal section and the deletion of the organisms *Aspergillus flavus* and *aspergillus fumigatus*, submitted under the provisions of FIFRA section 3 (c) 9. Based on a review of the submitted material, the following comments apply.

The application is acceptable and the notification has been made a part of the records for this file.

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

Sincerely,



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

CONCURRENCES

SYMBOL	7510W						
SURNAME	Z. Jones						
DATE	7-7-2000						

2/6



United States  
Environmental Protection Agency  
Washington, DC 20460



Registration  
Amendment  
☒ Other

OPP Identifier Number

250000

## Application for Pesticide - Section I

1. Company/Product Number 47371-147	2. EPA Product Manager Velma Noble	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) FORMULATION HS-1210 (3.85%)	PM# PM-31	
5. Name and Address of Applicant (Include ZIP Code) H&S CHEMICALS DIVISION C/O 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.)

## NOTIFICATION AS PER PR NOTICE 98-10

- Change in the designation of the non-public health pest *Xanthomonas campestris* pv. *vesicatoria* from the causative agent of "Citrus Canker Disease" to "Bacterial Spot of Tomatoes".
- Correction of a typographical error in the dilution ratio. In order to achieve a 2000-ppm quat use-solution, the dilution ratio needs to be 1:19 and not 1:25.
- Addition of the terminal sterlant paragraph
- Revision of company name and address to reflect transfer to Lonza Inc.
- Delete the word "Prohibitions" in the Storage and Disposal section.
- Deleted the organisms *Aspergillus flavus* and *Aspergillus fumigatus*.

## Section - III

## 1. Material This Product Will Be Packaged In:

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		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <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 RUTH TRAGER	Title Manager, Regulatory Services	Telephone No. (Include Area Code) 201-794-2460
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.		6. Date Application Received (Stamped) 
2. Signature 	3. Title Manager, Regulatory Services	
4. Typed Name RUTH TRAGER	5. Date June 12, 2000	

# FORMULATION HS-1210 DISINFECTANT/SANITIZER (3.85%)

## germicide and deodorant

DISINFECTANT 1:64                      2 ounces per gallon of water (600ppm)  
SANITIZER 1:256                      1 ounce per 2 gallons of water (150ppm)  
SANITIZER 1:192                      1 ounce per 1 1/2 gallons of water (200ppm)

### DIRECTIONS FOR USE

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

**GENERAL USE DIRECTIONS FOR DISINFECTING:** For use on precleaned, hard, non-porous surfaces such as floors, walls, metal surfaces, stainless steel surfaces, porcelain, and plastic surfaces (such as poly propylene, polystyrene, etc.). Thoroughly wet all surfaces with a solution of 2 ounces or 1/4 cup of product per gallon of water. Let solution remain on the surface for a minimum contact time of 10 minutes. Allow to air dry. Can be applied with a mop, sponge, cloth, coarse sprayer, or by soaking. The use solution is prepared fresh for each use then discarded. Rinsing is not necessary unless floors are to be waxed or polished.

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.

**TO CONTROL MOLD AND MILDEW:** To control mold and mildew on hard, non-porous surfaces pre-clean surfaces. Then apply 2 fl. oz. per gallon solution with mop, sponge, cloth, or coarse sprayer so as to wet all surfaces thoroughly. Let air dry. Repeat application every 7 days to control recurrence of growth.

**FISHERY, MILK, CITRUS, ICE CREAM & POTATO PROCESSING PLANTS:** Applied routinely as a disinfectant on walls and floors will reduce or eliminate odors in the processing area. Use on filling equipment to reduce or eliminate odors in the processing area and bacteria associated with condensation on equipment and pipes.

**FOR SANITIZING FOOD CONTACT SURFACES:** For use on precleaned, hard, non-porous surfaces such as counter tops, eating utensils, and drinking glasses. Remove gross food particles and soil prior to washing and rinsing the surfaces. Rinse with potable water prior to application of sanitizing solution. Then use 1 ounce per 1 1/2 - 2 gallons of water (150-200 ppm active quat) for a minimum contact time of 1 minute in a single application. Can be applied with a mop, sponge, cloth, or coarse sprayer, or by soaking. Thoroughly wet all surfaces. The recommended use solution is prepared fresh for each use then discarded. Drain thoroughly. Do not rinse. For mechanical applications, use solution may not be reused for sanitizing applications.

Pseudomonacidal    Staphylocidal    Fungicidal    \*Virucidal

A concentrated, multi-purpose germicide and deodorant effective in 5% organic serum. Disinfects and deodorizes in one labor saving step. Recommended for use in hospitals, nursing homes, schools, colleges, veterinary clinics and animal life science laboratories, equine farms, tack shops, pet shops, airports, kennels, hotels and motels, poultry and turkey farms, dairy farms and hog farms, breeding and grooming establishments, and federally inspected meat and poultry plants.

Bactericidal at 1:64 dilution (2 ounces per gallon of water) against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, and *Salmonella choleraesuis* according to AOAC Use-Dilution Test method, modified in the presence of 5% organic serum. (See reference sheet for complete list of pathogenic organisms).

Fungicidal against *Trichophyton interdigitale* and *Candida albicans* according to the AOAC fungicidal test, modified in the presence of 5% organic serum at a 1:64 dilution.

\*Virucidal against \*Bovine rhinotracheitis, \*Avian Infectious Bronchitis virus, and \*Newcastle virus according to the virucidal qualification, modified in the presence of 5% organic serum at a 1:64 dilution.

### ACTIVE INGREDIENTS:

Didecyl dimethyl ammonium chloride ..... 2.31%  
n-Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%) dimethyl benzyl  
ammonium chloride ..... 1.54%

INERT INGREDIENTS: ..... 96.15%

## KEEP OUT OF REACH OF CHILDREN DANGER

See side panel for additional precautionary and practical treatment statements.

EPA Reg. No. 47371-147

EPA Est. No. \_\_\_\_\_

Net Contents

H&S Chemicals Division

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

### STATEMENT OF PRACTICAL TREATMENT

If in eyes, hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. If on skin, wash with plenty of soap and water. Get medical attention if irritation persists. If swallowed, immediately drink a large quantity of water. Avoid alcohol. Get medical attention immediately.

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

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### DANGER

**CORROSIVE:** Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

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

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

#### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

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

*(Fiber drums with liners):* Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

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

3/16

4/6

## **FORMULATION HS-1210 DISINFECTANT/SANITIZER (3.85%)**

### **germicide and deodorant**

Before use as a sanitizer in federally inspected meat and poultry plants and dairies, food products and packaging materials must be removed from the room or carefully protected. A potable water rinse is not required following use of this compound on previously cleaned hard surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains.

**RESTAURANT AND BAR USE:** For use as a sanitizer on dishes, glassware, silverware, cooking utensils, wash with detergent, rinse thoroughly and immerse in a solution of 150-200 ppm active quat (1 ounce per 1½ - 2 gallons of water) for at least 1 minute. Drain thoroughly. Do not rinse.

**BEVERAGE PLANTS:** For sanitizing of bottling or pre-mix dispensing equipment, after cleaning thoroughly rinse equipment with cold or lukewarm water. Fill equipment with solution of 150-200 ppm quat (1 ounce per 1½ - 2 gallons of water). Allow the solution to remain in contact with equipment for at least 1 minute or until operations resume at which time the sanitizing solution should be drained from the system. To insure the removal of flavors, it is suggested that during changeover between products the system should be cleaned, rinsed and flushed with the sanitizing solution for at least 1 minute. Allow to drain completely before using.

**SANITARY FILLING:** Recommended for use in sanitizing bottles or cans in the final rinse application. The product is to be proportioned into the final rinse water line of the container washer or rinser in concentration of 150-200 ppm active quat. A sanitizing solution of 150-200 ppm active quat should be used in an external application for the filler and closing machine.

**STORAGE TANK SANITIZING:** Recommended for sanitizing beer fermentation and holding tanks. A solution of 150-200 ppm should be applied manually or used in combination with automated cleaning systems. Drain thoroughly. Do not rinse. For mechanical operations or automated systems, the used sanitizing solution may not be reused for sanitizing but may be reused for other purposes such as cleaning.

**FOR SANITIZING IN FISHERIES, MILK, CITRUS, POTATO & ICE CREAM PROCESSING PLANTS:** For use as a sanitizer on conveyors and equipment to reduce or eliminate odors in the processing area. Also, for use on filling equipment to reduce bacteria associated with condensation on equipment and pipes.

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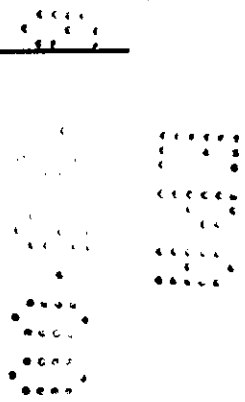
### **FOR WISCONSIN ONLY**

#### **SANITIZING EATING AND DRINKING UTENSILS IN EATING ESTABLISHMENTS**

- 1) Scrape and pre-wash utensils and glasses whenever possible.
- 2) Wash with a good detergent or compatible cleaner.
- 3) Rinse with clean water.
- 4) Sanitize in a solution of 1 fluid ounce per 1-1/2 to 2 gallons of water. (200 - 150 ppm quat). Immerse all utensils for at least two minutes or for a contact time specified by governing sanitary codes.
- 5) Place sanitized utensils on a rack or drain-board to air dry.
- 6) Fresh sanitizing solution should be prepared at least daily or when visibly soiled or diluted.

**NOTE:** A clean potable water rinse following sanitization is not permitted under Section HSS 196.13 of the Wisconsin Administrative Code.

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5/6

**FORMULATION HS-1210 DISINFECTANT/SANITIZER (3.85%)**  
**germicide and deodorant**

**POULTRY & TURKEY HOUSE DISINFECTANT**

Dilution: 1:64

2 ounces per gallon

**Directions for Use**

1. Remove all poultry and feeds from premises, trucks, coops, and crates.
2. Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
3. Empty all troughs, racks, and other feeding and water appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes.
6. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set or dried.
7. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

**FARM PREMISE DISINFECTANT**

Dilution: 1:64

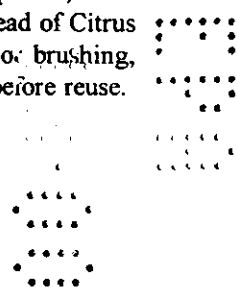
2 ounces per gallon

**Directions for Use**

1. Remove all animals and feed from premises, vehicles, and enclosures.
2. 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.
3. Empty all troughs, racks, and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes.
6. 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.
7. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

**BACTERIAL SPOT OF TOMATOES CONTROL**

For prevention of Bacterial Spot of Tomatoes through treatment of equipment. Effective against *Xanthomonas campestris* pv. *vesicatoria* (Bacterial Spot of Tomatoes Disease) at 2000 ppm active quat. Treat all equipment thoroughly at a dilution ratio of 1:19 (2000 ppm active quat). Treatments can be applied to field equipment, outer clothing, shoes, vehicles, tires, and any other equipment taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using a maximum rate of 2000 ppm quat. Clothing should be either thoroughly rinsed or laundered before reuse. Footwear should be rinsed before reuse.



6/6

## Formulation HS-1210 Disinfectant/Sanitizer (3.85%)

(Reference Sheet)

### BACTERICIDAL AGAINST:

Effective against the following according to the AOAC Use-Dilution Test, modified in the presence of 5% organic serum.

*Pseudomonas aeruginosa*  
*Staphylococcus aureus*  
*Salmonella choleraesuis*  
*Escherichia coli*  
*Salmonella typhi*  
*Serratia marcescens* 1/2" 1/2"  
*Klebsiella pneumoniae*  
*Streptococcus pyogenes*  
*Shigella flexneri*  
*Proteus mirabilis*  
*Staphylococcus aureus* phage 80  
*Staphylococcus aureus* phage 81  
*Enterobacter aerogenes*  
*Mycoplasma gallisepticum*  
*Listeria monocytogenes*  
*Pseudomonas putida*  
*Aeromonas salmonicida*  
*Vibrio anguillarum*

Effective against the following according to the AOAC Germicidal & Detergent Sanitizer Test, modified in the presence of 800 ppm water hardness (calculated as  $\text{CaCO}_3$ )

*Staphylococcus aureus*  
*Escherichia coli*

### FUNGICIDAL & MILDEWCIDAL AGAINST:

Effective against the following according to the AOAC Use-Dilution Test, modified in the presence of 5% organic serum.

*Aspergillus glaucus*  
*Candida albicans*  
*Trichophyton interdigitale*  
*Alternaria tenuis*  
*Geotrichum candidum*  
*Penicillium digitatum*  
*Phytophthora infestans*  
*Trichoderma harzianum*  
*Fusarium oxysporum*  
*Rhizopus nigricans* (stolonifer)

### VIRUCIDAL AGAINST:

Effective against the following according to the virucidal qualifications modified in the presence of 5% organic serum.

Bovine rhinotracheitis virus  
Avian Infectious Bronchitis virus  
Newcastle virus

EPA Reg. No. 47371-147

[May be used as a box insert and/or hang tag.]

