

47371-146

11/19/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460



Office of Pesticide Programs

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

NOV 19 2009

**Subject:** HS -420 (10%) Water Treatment Microbicide  
**Registration No.:** 47371-146  
**Amendment Dated:** August 19, 2009  
**Submission #:** 857040

Dear Ms. Holcombe,

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

**Proposed Amendment**

- Add optional barcode, "country of origin" statement and "manufactured in" statement;
- Update the company address;
- Update the Storage and Disposal language per PR Notice 2007-4

**Conditions**

Revise the label as follows:

1) The Container Rule rescinded PR Notice 83-3 and 84-1 Part II in which Container Disposal statements are no longer separated by container size but by use pattern. Delete the "Storage and Disposal" Instructions for containers one gallon or less w/ uses other than household/residential. Also revise the second "Note to reviewer" to read "*Containers institutional/industrial/ commercial uses.*"

2) The Container Rule established rinsate instructions for commercial, institutional, and industrial containers sold in containers five gallons or less and containers greater than five gallons. Therefore, revise the "Container Disposal" statements as follows:

a) Your proposed "Container Disposal" statements are acceptable for containers five gallons or less. You need to add the following descriptor above the statement, "*(Containers 5 gallons or less).*"

b) If you sell your product in containers greater than 5 gallons, you must add the following statements:

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

(Container greater than 5 gallons)

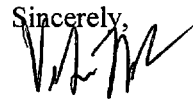
Nonrefillable container. Do not reuse or refill container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

- Page 1)** - First Aid Statement must appear on the front panel in accordance with 40 CFR 156.68 D
- Page 2)** - Remove the first aid statement from page two and place it on page one.
  - Under the "Environmental Hazard" section please include the statement, "This product is toxic to fish and other aquatic organisms".

**General Comments:**

A stamped copy of the labeling accepted with conditions is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Velma Noble PM Team 31 at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely,  


Velma Noble,  
Product Manager, Team 31  
Regulatory Management Branch  
Antimicrobials Division (7510P)

Enclosure: Stamped Label

# HS-420 (10%) WATER TREATMENT MICROBICIDE

Water Treatment Microbicide for Building and  
Industrial Cooling Towers  
and Oil Field Water Flood or  
Salt Water Disposal Systems

Sanitizer for Restaurant, Food Handling and Processing Area

Active Ingredient:  
Didecyl dimethyl ammonium chloride..... 10%  
Inert Ingredients: ..... 90%  
Total: ..... 100%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

(See (side) (back) (left) (right) panel for Precautionary  
Statements and First Aid.)

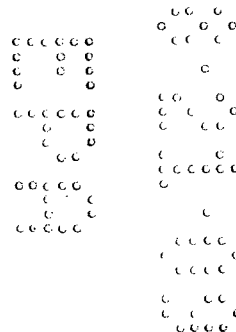
EPA Reg. No. 47371-146  
EPA Est. No. *(as indicated on container)*  
Net Contents *(as indicated on container)*  
[Country of origin (insert country)]  
[Manufactured in (insert country)]  
[Barcode]

H&S CHEMICALS DIVISION  
c/o LONZA INC.  
90 Boroline Road  
Allendale, NJ 07401

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**NOV 19 2009**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. **47371-146**



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

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

**FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

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

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

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

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish.

*(Note to reviewer: For containers 5 gallons or larger, the following Environmental Hazards will be added:)*

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**

This formula is cationic. Do not mix with soap or anionic materials. Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

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

**RE-CIRCULATING COOLING TOWER WATERS**

To control algae and bacterial slimes, use as directed. For best results, slug feed. The frequency of addition of microbicide needed depends on many factors. To optimize your use, follow this procedure:

1. Initially add 30 fluid ounces of HS-420 10% Water Treatment Microbicide per 1000 gallons of water in the system to be treated (20 ppm active quaternary). Should the above dosage not give satisfactory results, use 45 fluid ounces per 1000 gallons of system water. Repeat the initial dose every seven days or increase the frequency if needed.
2. When the above treatment level is successful, use 25 to 30 fluid ounces of HS-420 10% Water Treatment Microbicide per 1000 gallons of system water to maximize efficiency. Repeat weekly as needed. Should slime develop again, go back to initial dosage.

Add HS-420 10% Water Treatment Microbicide to a point in the system where it will be uniformly mixed.

Cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages; slug fed every seven days. Dilute the appropriate amount of this product in 1 or 2 gallons of water, then add to the system water in the tower. Should tower system water be heavily fouled, a pre-cleaning is required.

Will control algae and bacterial slimes found in re-circulating cooling tower waters. Helps clean and loosen slime debris from cooling system surfaces. When used in slug doses, no other microbicide is required.

**OIL FIELD WATER FLOOD OR SALT WATER DISPOSAL SYSTEMS:**

(Do not apply in Marine and Estuarine Oil Fields).

1. For the control of slime forming and sulfate reducing bacteria in oil field water flood or salt water disposal systems, add 5-10 ppm active (7½ - 15 gallons per 3000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.
2. For intermittent use, dose at a rate of 5 - 20 ppm active (7½- 15 gallons per 3000 barrels of water) for 3 - 8 hours per day, one to four times a week as needed to maintain control.

Add directly from the drum with the proper type of metering equipment.

Avoid using HS-420 10% Water Treatment Microbicide in the presence of oxidizers and reducing agents. Do not mix with soaps or other anionic detergents.

For use in federally inspected meat and poultry plants. Cooling and retort water treatment compound. May be added to water to cook and cool containers of meat and poultry products to prevent staining of containers and to control corrosion and deposit formation on surfaces of processing equipment. Use 5 - 20 ppm active quat.

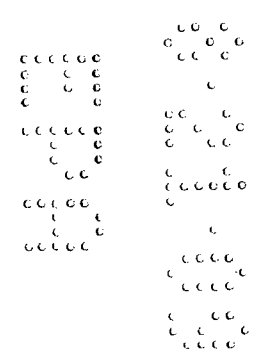
For use in thermal processing and pasteurizer operations. May be added to pasteurizer cooling water or dairy sweetwater to control slime forming bacteria and deposit formation. Use 5 - 15 ppm active quat.

**SANITIZATION OF FOOD PROCESSING EQUIPMENT AND OTHER HARD SURFACES IN FOOD CONTACT LOCATIONS.** For sanitizing food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard non-porous surfaces. At 150 ppm active, this product complies with 21 CFR 178.1010 (c)(12)).

1. Prior to application, remove gross food particles and soil by a pre-flush, or pre-scrape and, when necessary, pre-soak.
2. Then thoroughly wash surfaces or objects with a good detergent or compatible cleaner, followed by a potable water rinse.
3. Apply a solution of 0.75 oz. of HS-420 (10%) Water Treatment Microbicide in 4 gallons of water (150 ppm active) with cloth, sponge, mop, coarse trigger sprayer or by soaking to thoroughly wet all surfaces.
4. Surfaces must remain wet for at least one minute followed by adequate draining and air drying. Do not rinse.
5. Sanitize dishes, silverware, glasses, cooking utensils and other similar size food processing equipment by immersion in a 0.75 oz. of HS-420 (10%) Water Treatment Microbicide per 4 gallons of water use-dilution.

Prepare fresh solution daily or more often if the use solution becomes visibly diluted or soiled. For mechanical applications, use solution may not be reused for sanitizing applications but may be reused for cleaning.

Economical to use because it is concentrated.



***(Note to reviewer: For Nonrefillable Containers, Container is one gallon or less, Label has any uses other than Household and Residential)***

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to children.

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously and dispose of rinsate. Repeat two more times. Wrap [container] and put in trash or offer for recycling if available.

(or)

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously and dispose of rinsate. Repeat two more times. Wrap [container] and put in trash or offer for reconditioning if appropriate.

***(Note to reviewer: For Nonrefillable Containers, Container is over one gallon)***

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:**

Open dumping is prohibited. Store in original container in areas inaccessible to children.

**Pesticide Disposal:**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:**

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

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

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

