

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

FEB 22 2002

Ms. Wendy McCombie
Agent for Lonza
122 C Street, N.W., Suite 740
Washington, D.C. 20001

Subject: HS-420 (10%) Water Treatment Microbiocide
EPA Registration No: 47371-146
Application Date: December 4, 2001
Receipt Date: December 6, 2001

Dear Ms. McCombie:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable:

- Add a new use (food contact sanitization)
- Update the label language

General Comments

A stamped copy of the accepted labeling is enclosed. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

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

CONCURRENCES

SYMBOL	7510C						
SURNAME	J. Lopez						
DATE	2/22/02						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

Should you have any questions or comments concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



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

7510C:T.Lantz:2/21/02:47371-146b

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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.

**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

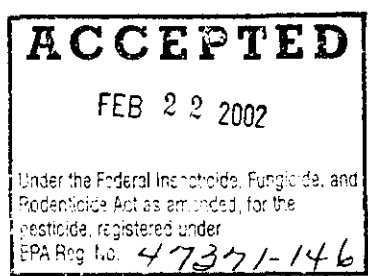
Active Ingredient:
 Didecyl dimethyl ammonium chloride 10%
 Inert Ingredients:..... 90%
 Total: 100%

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)

H&S CHEMICALS DIVISION
 c/o 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.

RE-CIRCULATING COOLING TOWER WATERS

To control algae and bacterial slimes, use as directed. For best results, slug feed. The frequency of addition of microbiocide 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 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 microbiocide is required.

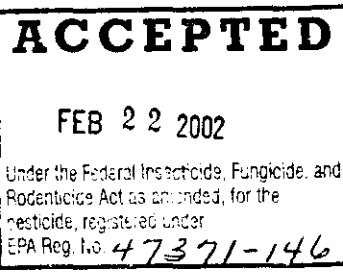
OIL FIELD WATER FLOOD OR SALT WATER DISPOSAL SYSTEMS:

(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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Keep product under locked storage, inaccessible to children. Open dumping is prohibited. 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 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

(PLASTIC CONTAINERS) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(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.

