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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 3 - 1995

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

Attention: Eliot I. Harrison
Agent for Lonza

Subject: Barquat 422-10
EPA Registration No. 6836-57
MOU Compliance Amendment dated January 25, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, will be acceptable provided that you make the labeling change listed below before you release the product for shipment bearing the amended label.

1. Change Trichophyton interdigitale to read Trichophyton mentagrophytes.

A stamped copy of your labeling is enclosed for your records. Submit five (5) copies of the final printed label prior to release of the product for shipment.

If you have any questions concerning this letter, please contact Wanda Mitchell at (703) 305-6141.

Sincerely,



Marion J. Johnson, Jr.
Product Manager (31)
Antimicrobial Program Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL								
SURNAM								
DATE								

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

DANGER

Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Wash thoroughly with soap and water after handling.

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.

STORAGE AND DISPOSAL

- Do not contaminate water, food or feed by storage disposal.
- Do not store on side.
- Avoid creasing or impacting of side walls.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, spray or mixture of 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

Metal Container: 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.

If container is 1 gallon or less, do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

Under Federal Insecticide,
Fungicide and Rodenticide Act as
registered under FIFRA No.

BARQUAT 42Z-10

Disinfectant-Sanitizer-Fungicide
Deodorizer for Hospital, Institutional,
Industrial, School, Dairy and Other
Farm Use and for the Control of Mollusks and Algal,
Bacterial and Fungal Slimes in Once-Through and Closed-Cycle
Fresh and Sea Water Cooling Systems

Active Ingredients

Alkyl (C₁₄, 60%; C₁₆, 30%; C₁₂, 5%; C₁₈, 5%) 5.0%
Dimethyl Benzyl Ammonium Chloride

Alkyl (C₁₂, 68%; C₁₄, 32%) 5.0%
Dimethyl Ethylbenzyl Ammonium Chloride

Inert Ingredients 90.0%
100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

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 milk, 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.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No. 6836-57

EPA Establishment No. 6836 IL-1

Net Contents

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.

Apply BARQUAT 42Z-10 with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surface must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. Fresh solution should be prepared daily or when the use solution becomes visibly dirty.

DISINFECTION IN HOSPITALS, NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS.

For disinfecting floors, walls, countertops, bathing areas, lavatories, bedframes, tables, chairs, garbage pails and other hard non-porous surfaces.

Add 4.5 oz. BARQUAT 42Z-10 to 5 gallons water. Apply to previously cleaned hard surface with mop or cloth.

At this use-level, BARQUAT 42Z-10 is effective against *Pseudomonas aeruginosa*.

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.

DISINFECTANT IN INSTITUTIONS, INDUSTRY AND SCHOOLS.

For disinfecting floors, walls, bedframes, countertops, tables, chairs, garbage pails, bathroom fixtures and other hard surfaces. Add 3 oz. of BARQUAT 42Z-10 to 5 gallons of water. Apply to previously cleaned hard surface with mop or cloth.

At 3 oz./5 gallon use-level, BARQUAT 42Z-10 is effective against *Staphylococcus aureus* and *Salmonella choleraesuis*.

FUNGICIDAL ACTIVITY

At 8 oz./5 gallons use-level BARQUAT 42Z-10 is effective against *Trichophyton interdigitale* (athlete's foot fungus) on inanimate hard surfaces.

DISINFECTION OF BARBER TOOLS

Pre-cleaned barber tools (such as combs, brushes, razors, and scissors) can be disinfected by immersing in a 6 oz./gallon solution of BARQUAT 42Z-10.

DISINFECTION OF POULTRY EQUIPMENT, ANIMAL QUARTERS AND

KENNELS. Poultry brooders, watering founts, feeding equipment and other animal quarters (such as stalls and kennel areas) can be disinfected after thorough cleaning by applying a solution of 4.5 oz. BARQUAT 42Z-10 to 5 gallons of water with a mop, cloth or brush. Small utensils should be immersed in this solution.

Prior to disinfection, all poultry, other animals and their feeds must be removed from the premises. This includes emptying all troughs, racks and other feeding and watering appliances. Remove all litter and droppings from floors, walls and surfaces occupied or traversed by poultry or other animals. After disinfection, ventilate building, coops and other closed spaces. Do not house poultry, or other animals, or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water must be rinsed with potable water before reuse.

Sanitizing 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.

Wash and rinse all articles thoroughly, then apply a solution of 1 oz. BARQUAT 42Z-10 in 4 gallons of water (200 ppm active). Surfaces should remain wet for at least one minute followed by adequate draining and air drying. Fresh solution should be prepared daily or when use solution becomes visibly dirty. For mechanical application, use solution may not be reused for sanitizing applications.

Apply to sink tops, countertops, refrigerated storage and display equipment and other stationary hard surfaces by cloth or brush.

Dishes, silverware, glasses, cooking utensils and other similar size food processing equipment can be sanitized by immersion in a 1 oz./4 gallon dilution of BARQUAT 42Z-10. No potable water rinse is required.

At 1 oz./4 gallons, BARQUAT 42Z-10 has a hard water tolerance of 750 ppm of hardness calculated as CaCO_3 when evaluated by the AOAC Germicidal and Detergent Sanitizer Method against *Escherichia coli* and *Staphylococcus aureus*. The udders, flanks and teats of dairy cows can be sanitized by washing with a solution of 1 oz. BARQUAT 42Z-10 in 4 gallons of warm water.

Use a fresh towel for each cow. Avoid contamination of sanitizing solution by dirt and soil. Do not dip used towel back into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.

FOR THE CONTROL OF MOLLUSCA, BACTERIA, FUNGI AND ALGAE

When used as directed, BARQUAT 42Z-10 helps to effectively control algae, bacteria, fungi and macrofouling species such as clams, barnacles, and mussels in commercial and industrial recirculating and once-through cooling water systems, influent water systems, brewery pasteurizers, auxiliary water systems and waste water systems. Product addition should be made with a metering pump. Product may be fed continuously or on an intermittent basis depending in the degree of system fouling and retention time.

BACTERIAL, FUNGAL, AND ALGAE CONTROL IN RECIRCULATING, AUXILIARY AND WASTE WATER SYSTEMS, AND PASTEURIZERS

INITIAL DOSE: Add BARQUAT 42Z-10 at an initial dosage of 1.2 gallons per 5,000 gallons of system water (50-200 ppm). Repeat until the desired level of control is achieved. Heavily contaminated systems must be pre-cleaned.

SUBSEQUENT DOSE: Once control is achieved, add maintenance dosages of 1-4 quarts BARQUAT 42Z-10 per 5,000 gallons of system water (50-200 ppm) weekly or as needed to maintain control. Apply BARQUAT 42Z-10 to a point in the system where it will be uniformly mixed and distributed such as the tower sump.

MACROFOULING CONTROL IN RECIRCULATING AUXILIARY COOLING WATER AND WASTE WATER SYSTEMS

INITIAL DOSE: For the control of macrofouling growth such as clams, barnacles, and mussels, add 0.08-0.80 pounds of BARQUAT 42Z-10 per 1,000 gallons of system water (10-100 ppm). Repeat as necessary to achieve control.

SUBSEQUENT DOSE: When control is evident, add 0.08-0.40 pounds of BARQUAT 42Z-10 per 1,000 gallons of system water (10-50 ppm) as needed to maintain control.

ONCE-THROUGH COOLING WATER SYSTEMS

INTERMITTENT FEED

INITIAL DOSE: When the system is noticeably fouled, add BARQUAT 42Z-10 at a dosage of 0.08-0.80 pounds per 1,000 gallons of water (10-100 ppm) based on system flow rates. The minimum treatment period should be 6 to 24 hours.

Repeat as necessary to achieve control.

SUBSEQUENT DOSE: When control is evident, add BARQUAT 42Z-10 at a dosage of 0.04-0.40 pounds per 1,000 gallons of water (5-50 ppm) based on system flow rates on an as needed basis to maintain control. Frequency of feed should be tied to an in-plant monitoring program for macrofouling growth.

ONCE-THROUGH COOLING WATER SYSTEMS

CONTINUOUS FEED

INITIAL DOSE: When the system is noticeably fouled, add BARQUAT 42Z-10 at a dosage of 0.04-0.40 pounds per 1,000 gallons of water (5-50 ppm) based on system flow rates. Continue to feed until needed control is achieved.

SUBSEQUENT DOSE: Maintenance control can be effective through continuous feed of BARQUAT 42Z-10 at a dosage of 0.016-0.16 pounds per 1,000 gallons of water (2-20 ppm) based on system flow rates.

BARQUAT 42Z-10 IS INTENDED FOR INDUSTRIAL USE ONLY

Do not apply to potable or domestic water systems. Do not use water containing residues from use of this product to irrigate crops used for food or feed.

Use of the product in either public/municipal or single or multiple family private/residential potable/drinking water systems is strictly prohibited. Use of the product in any cooling water system that discharges effluent within 1/4 mile of either a public/municipal or single or multiple family private/residential potable/drinking water intake is strictly prohibited.