

OCT - 3 2003

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

Subject: Barquat MB-10
EPA Registration No. 6836-58
Amendment Date: July 2, 2003
EPA Receipt Date: July 7, 2003

Dear Mr. Sloan,

The following amendment submitted in connection with registration under FIFRA, as amended, is acceptable with the conditions listed below.

- Update First Aid Statements per PR Notice 2001-1

Conditions

Revise the label as follows:

1. Revise the "Precautionary Statements" by adding the phrase, "protective clothing" to the 4th statement and the statements, "Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse." Also, delete the statement, "Avoid contamination of food."
2. Under "First Aid," capitalize "If Swallowed" so the phrase is consistent with the other subheadings in this section.
3. Revise the 1st paragraph under the "Directions for Use" by adding the statement, "Allow surfaces to air dry." It must appear after the contact time.
4. Since this product makes a deodorizing claim, add the following directions:

Deodorizing: Prepare use solution of 4.5 oz per 4 gallons of water. Apply to hard nonporous surfaces with a cloth, sponge, mop, squeegee, or mechanical scrubber. Allow surfaces to air dry."

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5. Since this product may be used in bath areas and lavatories, you must add the following **"Toilet Bowl/ Urinal Disinfection"** directions: " Remove gross filth prior to disinfection. Empty toilet bowl or urinal by flushing the toilet and forcing the bowl water over the trap. Apply 1oz per gallon of water use solution to exposed surfaces and under the rim with a cloth, brush, or mechanical sprayer. Thoroughly brush or swab, allow to stand for 10 minutes and flush.

6. Revise the *"Barber /Beauty Tools and Instruments"* directions to read :

 Preclean hard nonporous instruments and tools. Completely immerse combs, brushes, rollers, manicure, and other salon/barber instruments and tools in use solution of 0.5 oz per gallon of water for 10 minutes. Rinse thoroughly and dry before use. Use a fresh product daily. Do not reuse solutions, and discard solutions if it becomes diluted or soiled.

Note: Plastics may remain immersed until ready to use. Stainless steel shears and instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

7. Add *"Farms"* to the heading, "Disinfection of Poultry Equipment, Animal Quarters, and Kennels."

8. Revise the "Sanitizing of Food Processing ... Location" directions by adding the statements, *" Prior to sanitizing, remove gross food particles and soil by a pre-flush or pre-scraped and when necessary, pre-soaked to remove gross food particles and soil. Then thoroughly, wash or flush equipment and equipment and utensils with a good detergent or compatible cleaner followed by a potable water rinse."* Also, revise the statement, "fresh solution ... visibly dirty," by deleting " should" and state *"must."*

9. Add the heading, "Sanitizing Udder, Flanks, and Teats of Dairy Cows," in bold to clearly separate the directions from the food contact hard nonporous surface directions.

10. Bold type the subheading, "Subsequent Dose" on page 4 for the 3 different cooling water system directions.

General Comments

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

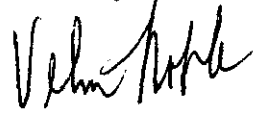
Should you have any questions or comments concerning this letter, please contact Jacqueline McFarlane at (703) 308-6416.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Sincerely,



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

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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. Wear protective eyewear (goggles, safety glasses or face shield) and protective gloves (rubber or chemical resistant) when handling. Harmful if swallowed. Avoid contamination of food.

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 pesticide is toxic to fish.

(If container size is 5 gallons or larger, add the following Environmental Hazards statement:)

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.

BARQUAT MB-10

Disinfectant – Sanitizer - Deodorizer for Hospital, Institutional, Pulp & Paper Mill, Industrial, School, Dairy and Other Farm Use

For the Control of Mollusks and Algae, Bacterial and Fungal slimes in Once-Through and Closed-Cycle Fresh and Sea Water Cooling Systems

Active Ingredient:	
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%)	10.0%
dimethyl benzyl ammonium chloride	
Other Ingredients	90.0%
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

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

EPA Reg. No. 6836-58
EPA Est. No. 6836-IL-1
Net Contents

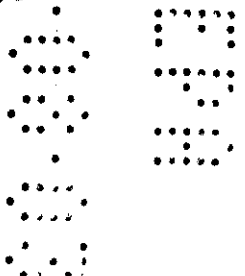
Manufactured by:
LONZA INC.
17-17 Route 208
Fair Lawn, NJ 07410

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

OCT 9 - 2003

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

6836-58



DIRECTIONS FOR USE

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

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

Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes as a disinfectant.

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

For disinfecting floors, walls, countertops, bathing areas, lavatories, tables, chairs, garbage pails and other hard nonporous surfaces.

Add 4.5 oz. **BARQUAT MB-10** to 4 gallons water. Apply to previously cleaned hard surface with mop or cloth.

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

(Note for reviewer: For labels that list medical premises and metal and / or stainless steel surfaces, one of the following statements must be used:)

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 preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

(or)
This product is not for use on medical device surfaces.

DISINFECTANT IN INSTITUTIONS, (i.e., Educational, Penal, Military), INDUSTRY AND SCHOOLS.

For disinfecting floors, walls, bedframes, countertops, tables, chairs, garbage pails, bathroom fixtures and other hard surfaces.

Add 3 oz. of **BARQUAT MB-10** to 5.5 gallons of water. Apply to previously cleaned hard surface with mop or cloth.

At 3 oz./5.5 gallon use-level, **BARQUAT MB-10** is effective against *Staphylococcus aureus* and *Salmonella choleraesuis*.

DISINFECTION OF BARBER TOOLS

Pre-cleaned barber tools (such as combs, brushes, razors, and scissors) can be disinfected by immersing in a .5 oz./gallon solution of **BARQUAT MB-10**.

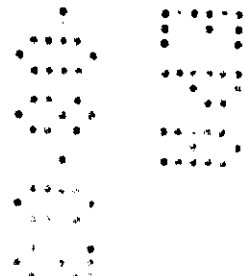
DISINFECTION OF POULTRY EQUIPMENT, ANIMAL QUARTERS AND KENNELS.

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 4.25 oz. **BARQUAT MB-10** to 4 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 vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with the recommended disinfecting solution for 10 minutes. 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.

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.

Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse 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 MB-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 MB-10**. Do not rinse.

At 1 oz./4 gallons, **BARQUAT MB-10** has a hard water tolerance of 500 ppm of hardness calculated as CaCO₃ 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 MB-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.

DIRECTIONS FOR SWIMMING POOL ALGAEICIDE

BARQUAT MB-10 should be added along pool edges while filter and pump are in operation. To allow time for even distribution in pool water, bathers should allow 10 minutes after treatment before entering pool.

For pools having just visible algae, add 64 fluid ounces to each 10,000 gallons of water or ratio thereof (5 ppm). After 24 hours, remove dead algae by cleaning. If algae is still present, repeat doses as necessary.

For initial treatment of clean pools, add 32 fluid ounces to each 10,000 gallons of water or ratio thereof (3 ppm). Maintenance additions of 7-14 fluid ounces per 10,000 gallons (0.5 to 1.0 ppm) active quaternary should be added every 7 days, or more frequently depending on water and use factors. A booster dose of 7 fluid ounces per 10,000 gallons (0.5 ppm) should be provided after each rain.

FOR WINTERIZATION:

1 This algicide aids in the prevention of algae in swimming pools during the winter months, when the pool is out of service.

2. Test water for proper balance of minerals, pH and presence of metals. Take corrective action if necessary.

3. Superchlorinate the pool using a recommended winter shock treatment according to label directions.

4. Apply this algicide directly to the pool water, pouring along the edges of the pool. Use 64 fluid ounces per 10,000 gallons of water (5 ppm) and allow to circulate 2-4 hours.

5. Clean pool piping and filter. In geographical areas that experience severe freezing, drain pool equipment and plumbing lines, or use an antifreeze recommended for swimming pool plumbing and equipment. Pools without covers may need a second treatment in mid-winter or just prior to freezing.

IMPORTANT: Follow above directions without fail, even when pool is not used. Algae growth must be fought at all times. **BARQUAT MB-10** is efficient, economical and stable in use dilution. **BARQUAT MB-10** is compatible with most chemicals used in pool water and will not damage tile, concrete, metal or plastics. **BARQUAT MB-10** keeps pool water free and sparkling, clear of visible green and blue-green algae, slim and green grown colors. **BARQUAT MB-10** improves filter operation and cuts down need for other chemicals. **BARQUAT MB-10** imparts tone and a pleasant "feel" to swimming pool water.

FOR THE CONTROL OF MOLLUSCA, BACTERIA, FUNGI AND ALGAE

When used as directed, BARQUAT MB-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 MB-10 at an initial dosage of 1-2 gallons per 5,000 gallons of system water (20-40 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 MB-10 per 5,000 gallons of system water (5-20 ppm) weekly or as needed to maintain control. Apply BARQUAT MB-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 1.3 to 13 fluid ounces of BARQUAT MB-10 per 1,000 gallons of system water (1-10 ppm). Repeat as necessary to achieve control.
SUBSEQUENT DOSE: When control is evident, add 1.3 to 6.5 fluid ounces of BARQUAT MB-10 per 1,000 gallons of system water (1-5 ppm) as needed to maintain control.

ONCE-THROUGH COOLING WATER SYSTEMS INTERMITTENT FEED

INITIAL DOSE: When the system is noticeably fouled, add BARQUAT MB-10 at a dosage of 1.3 to 13 fluid ounces per 1,000 gallons of water (1-10 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 MB-10 at a dosage of 0.7 to 6.5 fluid ounces per 1,000 gallons of water (0.5-5 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 MB-10 at a dosage of 0.7 to 6.5 fluid ounces per 1,000 gallons of water (0.5-5 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 MB-10 at a dosage of 0.3 to 2.6 fluid ounces per 1,000 gallons of water (0.2-2 ppm) based on system flow rates.

BARQUAT MB-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.

PAPER MANUFACTURING (FOR CONTROL OF BACTERIA, FUNGI AND ALGAE)

BARQUAT MB-10 can be used as a slimicide in the manufacture of paper and paperboard that contacts food. Apply 0.25 - 50 gallons of BARQUAT MB-10 per ton of paper produced. Alternatively, apply 0.5-100 gallons of BARQUAT MB-10 per 100,000 gallons of white water to be treated (0.5-100 ppm). Additions of BARQUAT MB-10 should be made at a point in the system where mixing action is good.

(If container size is 1 gallon or less, the following storage and disposal statements will be used:)

Storage and Disposal

Store in original container in areas inaccessible to children. Do not reuse empty container. Discard in trash or recycle.

(If container size is greater than gallon, the following storage and disposal statements will be used:)

STORAGE AND DISPOSAL

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

Pesticide Storage

Do not store on side. Avoid creasing or impacting of side walls.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, 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

(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 way of smoke.

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