

6836-203

5/20/2011

1098

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

MAY 20 2011

SUBJECT: Bardac Molluscicide
EPA Registration Number: 6836-203
Application Dated: February 24, 2011
Receipt Date: February 25, 2011

Dear Ms. Holcombe:

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

- Request to change the primary product name to **Bardac 2250 Microbiocide** and add marketing language and directions for use.

General Comments

A stamped copy of the accepted label is enclosed. Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347- 0199 or Velma Noble at (703) 308-6233.

Sincerely,



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

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

BARDAC 2250 MICROBIOCIDE

Active Ingredient:
 Didecyl dimethyl ammonium chloride 50.0%
 Other Ingredients: 50.0%
 Total: 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

See (left) (side) (right) (back) panel for First Aid and precautionary statements.

EPA Reg. No. 6836-203
 EPA Est. No. (Insert EPA Est. No. Here)
 NET CONTENTS: _____
 [Country of origin (insert country)]
 [Manufactured in (insert country)]
 [Barcode]

Manufactured By:
 Lonza Inc.
 90 Boroline Road
 Allendale, New Jersey 07401

ACCEPTED
MAY 20 2011
 Under the Federal Insecticide, Fungicide, and
 Rodenticide Act as amended, for the
 pesticide, registered under
 EPA Reg. No. 6836-203

**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), protective clothing, and protective gloves (chemical or rubber). May be fatal if swallowed or inhaled. Do not breathe vapor. Wear a MSHA/NIOSH-approved dust/mist filtering respirator number TC-21C or a NIOSH approved respirator with any N, R, P, or HE filter. Harmful if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash 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.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

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. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

(Note to reviewer: If container size is 5 gallons or greater, use the following Environmental Hazards statements:)

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, freshwater and estuarine fish and aquatic invertebrates. 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 OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Note: This product should not be used or compounded with any reducing or oxidizing agents (such as calcium hypochlorite, solid perchlorate or nitric acid) since such mixtures may be explosive. Do not use in conjunction with soap or any anionic wetting agent.

FOR HELP IN A CHEMICAL EMERGENCY CALL CHEMTREC 800-424-9300

(BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET)

DIRECTIONS FOR USE

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

When used as directed, **BARDAC 2250 MICROBIOCIDE** helps to control algae and bacterial slime in industrial recirculating cooling tower systems. Product addition must be made with a metering pump. Product may be added continuously or on an intermittent basis depending on the degree of system fouling and retention time.

RECIRCULATING COOLING TOWERS

Initial Dose: Add 6 oz per 1,000 gallons of water (20 ppm active). Should the dosage not give satisfactory results, use 9 oz per 1,000 gallons of water. Repeat initial dose every seven days or increase the frequency if needed.

Heavily contaminated systems must be precleaned.

Maintenance Dose: Once control is achieved, add 2-3 oz per 1,000 gallons of water weekly or as needed to maintain control.

The product must be added at a point in the system where it will be uniformly mixed and distributed such as the tower sump.

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 feed every seven days.

OIL FIELD FLOOD OR SALT WATER DISPOSAL SYSTEMS

Do not apply in Marine or Estuarine Oil Fields

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) **BARDAC 2250 MICROBIOCIDE** (1 1/2 - 3 gallons per 3000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.

Product addition must be made with a metering pump. This product must be applied where it will dispense most rapidly and uniformly to the desired area of treatment. Product must be slug fed then fed continuously or on an intermittent basis depending on the degree of system fouling.

Heavily fouled system must be precleaned.

Slug: Apply 1 1/2 - 6 gallons per 3000 barrels (5-20 ppm ai) of water for 4-8 hours per day until desired level of control is achieved. To maintain the system in an acceptable manner, utilize a continuous treatment with the microbiocide or apply intermittent doses.

Intermittent Feed: The frequency of intermittent doses will vary with individual systems. Apply 1 1/2 - 6 gallons per 3000 barrels (5-20 ppm ai) of water for 4-8 hours per day, one to four times a week as needed to maintain control.

Continuous Feed: Fouled systems must be slug treated to get initial control, followed by continuous treatment to maintain control. Apply 1 1/2 - 3 gallons per 3000 barrels of water (5-10 ppm ai) continuously.

MOLLUSK CONTROL

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 potable/drinking water intake is strictly prohibited.

When used as directed, **BARDAC 2250 MICROBIOCIDE** helps to control molluscs in industrial once through cooling water systems. Product addition must be made with a metering pump directly from drum or pail. The product must be added at a point in the system where it will be uniformly mixed and distributed.

Slug Dose: Apply 0.15 to 1.5 oz per 1000 gallons of water (1-10 ppm). The duration of application must not exceed 120 hours, per application. Do not apply this product more than 4 times a year.

Deactivation: This product must be deactivated prior to discharge of the NPDES outfall unless the NPDES permit for the facility using this product does not require deactivation.

To Deactivate: Use bentonite clay at a minimum ratio of 5 ppm clay to 1 ppm product. Deactivation must occur prior to discharge of the NPDES outfall.

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.

THERMAL PROCESSING AND PASTEURIZER OPERATIONS

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

SWIMMING POOL ALGICIDE

Effective against *Chlorella pyrenoidosa* (green algae), *Phoridium retzil* (blue-green algae), *Phoridium inundatum* (blue-green algae), *Lyngbya versicolor* (blue-green algae), *Phoridium luridum* (black algae) and *Pleurochloris meiringensis* (mustard algae).

For best results: test and adjust water balance before use, chlorinate and clarify pool water as required, shock treat pool water at least weekly, keep filtration systems clean and back-flush regularly. Call your local health department for assistance with any issue relating to good pool operating practices.

APPLICATION: For all applications, apply equal amounts of **BARDAC 2250 MICROBIOCID** to pool water along pool edges around the circumference of the pool while filter pump is running. Run pump for at least 6 hours after application. Wait at least 15 minutes after application before entering pool.

INITIAL APPLICATION: When filling pool at beginning of season add 5 fl. ounces of **BARDAC 2250 MICROBIOCID** per 10,000 gallons water (2 ppm active ingredient).

VISIBLE ALGAE: If algae are visible, brush surfaces and then add 5 fl. ounces of **BARDAC 2250 MICROBIOCID** per 10,000 gallons water (2 ppm active ingredient). Vacuum pool and remove dead algae after 24 hours. Repeat treatment as necessary if algae are still present.

MAINTENANCE DOSE: When pool is free of visible algae, add 1 1/2 fluid ounces of **BARDAC 2250 MICROBIOCID** per 10,000 gallons water (0.6 ppm active ingredient) every week. For very hot weather or heavy bathing load, use this dosage every 5 days.

BOOSTER DOSE: After heavy rains or severe storms, add 5 fl. ounces of **BARDAC 2250 MICROBIOCID** per 10,000 gallons water (2 ppm active ingredient).

TO PREVENT ALGAE GROWTH IN OUTDOOR WHIRLPOOLS, SPAS AND HOT TUBS

BARDAC 2250 MICROBIOCID aids in the prevention of algae in outdoor whirlpools, spas and hot tubs.

Fill whirlpool, spa or hot tub with water. Add 1/8 ounce per 200 gallons of water (2 ppm active). Run pump and wait at least 15 minutes after application before entering. Drain whirlpool, spa or hot tub after each use and disinfect with a suitable disinfectant.

(Note to reviewer: For Nonrefillable Containers for Household/Residential Use)

STORAGE AND DISPOSAL

Store in original container in areas inaccessible to children or persons unfamiliar with its proper use.

Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for recycling if available.

(or)

Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for reconditioning if appropriate.

(Note to reviewer: For Nonrefillable Containers for commercial, industrial, and institutional uses. Chapter 13, Table 6 of the Label Review Manual states that for "All products in containers that could be burned," the registrant has the option to "Remain silent on burning;" therefore, no incineration language is provided for plastic containers.)

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. 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.

(Note to reviewer: This Container Statement will be used only for containers 5 gallons or less:)

Container Disposal:

Nonrefillable container. Do not reuse or refill this container.

(Plastic and Metal Containers:) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in sanitary landfill.

(Note to reviewer: This Container Statement will be used for containers over 5 gallons:)

Container Disposal:

Nonrefillable container. Do not reuse or refill this container.

(Plastic and Metal Containers:) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in sanitary landfill.

(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.

(Note to reviewer: For Refillable Containers. Chapter 13, Table 6 of the Label Review Manual states that for "All products in containers that could be burned," the registrant has the option to "Remain silent on burning;" therefore, no incineration language is provided for plastic containers.)

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:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller. Cleaning the container before final disposal is the responsibility of the person disposing of the container.

(Plastic or Metal Containers:) To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in sanitary landfill. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

(For metal containers only: DO NOT cut or weld metal containers.)

