



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 20, 2019

Kathryn Rosario  
Regulatory Assurance Specialist  
Lonza Inc.  
412 Mount Kemble Avenue, Suite 200S  
Morristown, NJ 07960

Subject: Notification per PRN 98-10 – Revise container handling on the label  
Product Name: BARDAC 2250 MICROBIOCIDE  
EPA Registration Number: 6836-203  
Application Date: November 15, 2018  
Decision Number: 546491

Dear Ms. Rosario:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact Mohammad Alavi at (703) 347-0522 or via email at [Alavi.mohammad@epa.gov](mailto:Alavi.mohammad@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "E. Miederhoff".

Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Note to reviewer:

[Items in brackets [AAA] are optional and may/may not be included on final label]

{Items in braces {AAA} are for information purposes and will not appear on final label}

## BARDAC® 2250 MICROBIOCIDES

### NOTIFICATION

6836-203

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

05/20/2019

#### 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. XXXX-XX-XX

NET CONTENTS: \_\_\_\_\_

[DOT Symbols]

[Country of origin (insert country)]

[Manufactured in (insert country)]

[Barcode]

[Manufactured By:][Sold by:]

Lonza Inc.

412 Mount Kemble Avenue, Suite 200S

Morristown, NJ 07960

## **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 minimum of a filtering face piece NIOSH approved respirator (TC-84A) with any N filter. Higher level respirators that are NIOSH approved for particulates can also be used. 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**][this product][product name] 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**][this product][product name] [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**][this product][product name] 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[S] [ALGICIDE][ALGAECIDE]**

**[APPLICATION:** [For all applications, apply equal amounts of [**Bardac® 2250 Microbiocide**][this product][product name] [to pool water along [the perimeter of the pool][pool edges] [around the circumference of the pool] while [the] [filter] pump is running. Run [the] pump for at least 6 hours after application. Wait at least 15 minutes after application before entering pool.]

### **[IMPORTANT NOTES**

1. Do not allow swimming in pool for at least 15 minutes after this product has been applied.
2. Always apply this and other pool treatment chemicals separately. Never combine them.
3. Sunlight, rainfall, temperature, number of swimmers and frequency of pool use, all affect the rate at which unsanitary pool water conditions develop. Adjust your pool cleaning and maintenance functions accordingly.]

### **[BEFORE YOU BEGIN**

1. Make sure all pool equipment is working properly including pump, filter, skimmer and heater. Allow the filter to run for at least 6 hours after adding algaecide.
2. Backwash filter, following normal procedure for your pools filter.
3. Check water pH (acidity/alkalinity balance) with a test kit, following label directions. Desired pH range is between 7.2-7.6. If necessary, adjust pH by adding pH decreaser to lower pH or pH increaser to raise pH.
4. Recheck pH and maintain it between 7.2-7.6 for at least 6 hours before adding this product.
5. Add this product directly into pool by pouring around entire outside perimeter of pool.]



**INITIAL APPLICATION:** When filling [a] pool at [the] beginning of [the] season, add 5 fl. ounces of **[Bardac® 2250 Microbiocide]**[this product][product name] per 10,000 gallons [of pool] water [2 ppm active ingredient].

{or}

1. Vacuum algae debris to waste and thoroughly brush pool.
2. Add 5¼ ounces of this product to each 10,000 gallons of water or ratio thereof. Add this product directly into pool by pouring around entire outside perimeter of pool.
3. Vacuum pool after 24 hours to remove dead algae.
4. If algae is still visible repeat dose steps 3 and 4 as necessary until pool is free of visible algae.
5. Once algae is under control, clean filter and return to normal operation.

**VISIBLE ALGAE:** If algae are visible, brush surfaces and then add 5 fl. ounces of **[Bardac® 2250 Microbiocide]**[this product][product name] per 10,000 gallons [of pool] 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 Microbiocide]**[this product][product name] per 10,000 gallons water [0.6 ppm active ingredient] every week. [For] [In] very hot weather or [for pools with a] heavy bathing load, use this dosage every 5 days. [After heavy rains or severe storms, add 5 fl. ounces of [this product] [product name] per 10,000 gallons [of pool] water.]

{or}

Add 1 1/2 fluid ounces of this product to 10,000 gallons of pool water. Maintenance dose should be added weekly. If high temperatures prevail or pool has unusually heavy use, add maintenance dose more frequently. Maintenance dose should be added after a heavy or prolonged rainfall. If make-up water is added at the rate of more than 10% per week of pool capacity, add ½ fluid ounce of this product for each 1,000 gallons of fresh make-up water added. When swimming season is over, add maintenance dose prior to closing pool. This dose helps provide a measure of control of algae growth during the winter months. This treatment will also help the servicing of the pool before it is returned to use the following season.

**[BOOSTER DOSE:** After heavy rains or severe storms, add 5 fl. ounces of **[Bardac® 2250 Microbiocide]**[this product][product name] per 10,000 gallons water [2 ppm active ingredient].]

[When this product is used as directed, it is effective against *Chlorella pyrenoidosa* (green algae), *Phormidium luridum* (black algae)<sup>1</sup>, and *Pleurochloris meiringensis* (mustard algae), and other swimming pool algae and slime producing microorganisms.]

[For persistent algae or slime producing microorganisms growth, add 5-7½ ounces of this product into the skimmer with the filter pump running. After one minute, shut off the pump and allow the system remain off over night. The following day, re-start the filter pump and add 5-7½ ounces of this product to the pool. Run the filter continuously for 24-48 hours, brushing the sides and bottom of the pool.]

#### **TO PREVENT ALGAE GROWTH [IN] [[OUTDOOR] [WHIRLPOOLS, SPAS AND HOT TUBS]**

**[Bardac® 2250 Microbiocide]**[this product][product name] 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.

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<sup>1</sup> *Phormidium luridum*



*{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}*

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 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 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 HANDLING**

*(For Nonrefillable Plastic containers ≤ 5 gallons)*

Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

*(For Nonrefillable Plastic containers > 5 gallons but ≤ 100 gallons)*

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 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 if available or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

*(For Nonrefillable Containers > 100 gallons)*

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. To clean the container, empty the remaining contents from this container into application equipment or a 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. Return to point of sale or offer for recycling if available or reconditioning if appropriate.



{BEGIN OPTIONAL MARKETING CONTENT}

{Why you should use this product language}

#### **WHY YOU SHOULD USE THIS PRODUCT**

This product requires no special equipment for treating swimming pool water. The correct use dilution may be added directly to the pool in any spot or added to the water circulation equipment. This product works the best when added by itself directly to pool water.

[This product] [product name] is a non-foaming algaecide that is effective against all types of algae, including green, black<sup>1</sup> and mustard. It will not harm pool surfaces or equipment and is compatible with most other pool chemicals.

[This product] [product name] is [effective against [all types of algae] [all types of algae, including green, black<sup>1</sup> and mustard.] [Chlorella pyrenoidosa (green algae),] [Phoridium retzii (blue-green algae),] [Phoridium inundatum (blue-green algae),] [Lyngbya versicolor (blue-green algae),] [Phoridium luridum (black algae)<sup>1</sup>] [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.]

Take a sample of pool water to your Authorized poolife® Dealer regularly for a detailed water analysis.

#### **{Marketing Claims}**

**[Bardac® 2250 Microbiocide]**[this product][product name] will control algae and bacterial slimes found in recirculating cooling tower waters and oil field water flood.

**[Bardac® 2250 Microbiocide]**[this product][product name] helps clean and loosen slime debris from cooling and flooding system surfaces. When used in slug doses, no other microbiocide is required.

**[Bardac® 2250 Microbiocide]**[this product][product name] is economical to use because it is concentrated.

**[Bardac® 2250 Microbiocide]**[this product][product name] is excellent for use in cooling water for thermal processing and pasteurizing operations in dairies, breweries, soft drink and food canning plants.

**[Bardac® 2250 Microbiocide]**[this product][product name] is an algae growth depressant. Reduces need for other chemicals. Improves filter operation. Compatible with most pool treatment chemicals. Will not damage tile, concrete, metal or plastics. Efficient and stable.

Compatible with most pool treatment chemicals.

Does not foam

Effective Against Green, Black<sup>1</sup>, Blue-Green and Mustard Algae

For use as a Molluscicide in Industrial and/or Commercial Once-Through Freshwater and Saltwater Cooling Systems

Improves filter operation

Improves filter efficiency

Keeps Water Free of Algae and Slime

Kills algae

Kills and prevents algae

Non-foaming

Non-foaming formula kills and prevents algae

Non-foaming formula kills and prevents algae while improving filter efficiency

Non-metallic

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<sup>1</sup> Phormidium luridum

Bardac® 2250 Microbiocide

EPA Reg. No. 6836-203

EPA Stamped Label 2018-09-07

EPA submission 2018-11-15



Prevents algae



{or}

Swimming Pool Algaecide Supplement

Twin-Chain Quaternary Ammonium Compound Concentrate

Visit [www.poolife.com](http://www.poolife.com)

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

Will not damage tile, concrete, metal or plastics.

### **{Step Programs}**

[Brand or POOLIFE] 3-Step System

*{The "[Brand or POOLIFE] 3-Step System" below may be placed on the label to allow easy product identification by consumers.}*

[Brand or POOLIFE] 3-Step System:

[Step] 1 [Sanitize [It!]]

[Step] 2 [Shock [It!]]

[Step] 3 [Defend [It!]]

*{Graphic rendering of the above 3 steps}*



### **{Trademark language}**

poolife® is a registered trademark of Arch Chemicals, Inc.

The poolife® logo is a trademark of Arch Chemicals, Inc.

*{END OPTIONAL MARKETING CONTENT}*