

5185-478

5-8-2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 08 2000

Mark Jernigan
BioLab, Inc.
P.O. Box 1489
Decatur, GA 30031-1489

RE: BELLACIDE 329
EPA Reg. No. 5185-478
Your Amendment Dated 2/8/2000

The Amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, responding to the required label changes stated in the EPA letter dated 10/28/99, is acceptable with the following comments.

Label Page 5/5

1. The four lines of the new "Precaution" text regarding restricting use of Bellacide 329 treated water on lawns and agriculture, should be repositioned where it seems more appropriate. It should be added to the main "Precautionary Statements" section, either as a new paragraph in the "Environmental Hazards" section, or even as a stand alone title in the existing "Precautionary Statements" section (eg., "Bellacide 325 Treated Water -- Reuse Restrictions", or other).

2. The new "General Information" section also seems like it would logically fit better on page 2 of the label, in the "When to apply" section, or in the "Treatment of algae in recirculating cooling water systems and in decorative and ornamental fountains" section.

A stamped copy of the accepted label is attached for your records.

If you have any questions about the comments in this letter, please feel free to contact Tony Kish at 703-308-9443, or myself at 703-308-6341.

Sincerely,



Marshall Swindell,
Product Manager Team 33,
Regulatory Management Branch I
Antimicrobials Division (7510C)

CONCURRENCES

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

{All text in brackets [xxx] is optional and may or may not be included on a final label.}
{All text in braces {xxx} is administrative and will not appear on a final label.}

{Center Panel}

Bellacide® 329

ACTIVE INGREDIENT:
Terbutylazine:
2-(tert-butylamino)-4-chloro-
6-(ethylamino)-S-Triazine 44.7%

INERT INGREDIENTS: 55.3%
TOTAL: 100.0%

EPA Reg. No. 5185-478
EPA Est. No. 55618-SC-001

Bellacide 329
is an Aqueous Dispersion

KEEP OUT OF REACH
OF CHILDREN

CAUTION

Refer to Left Panel for
Additional Precautionary Statements

ACCEPTED
with **COMMENTS**
in EPA Letter Dated:
MAY 08 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
5185-478

Bio-Lab, Inc.
Water Additives Division
PO Box 1489
Decatur, GA 30031

EMERGENCY TELEPHONE NUMBERS
MEDICAL: 877-800-5553
TRANSPORTATION: 800-424-9300
MEDICAL (OUTSIDE USA): 303-623-5716

Net Weight 55 lbs.

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ACCEPTED
with COMMENTS
in EPA Letter Dated:

{Right Panel}

**For control of algae in recirculating cooling water systems,
and in decorative and ornamental fountains.**

MAY 08 2000

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

**Directions for Use – Recirculating Cooling Water Systems,
Decorative and Ornamental Fountains**

5185-428

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

Industrial Use Application Restrictions: Open pouring of this products is prohibited. Mixing, loading, and application must be with a closed system (one that prevents the chemical from contacting handlers or other persons) and during handling of the chemical personal protective equipment must be worn. Personal protective equipment includes a long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves. A chemical-resistant apron must be immediately available during loading and application and must be worn in case of a leak, spill, or other exposure to the concentrate.

When to apply: Treat the water early in the algal growth period (typically early spring) before the system is in jeopardy of becoming fouled by algae. For maximum effectiveness, systems with heavy algae growth should be cleaned before using Bellacide 329.

Treatment of algae in recirculating cooling water systems and in decorative and ornamental fountains: Apply Bellacide 329 at a point in the system where there is good mixing such as in the cooling tower basin near the recirculating water pump or near the fountain recirculating water pump. Bellacide 329 is slow to remove algae from a system and therefore its action will reduce the risk of large algae clumps possibly clogging the distribution deck orifices or the heat exchanger of a recirculating cooling water system.

Chlorinated Systems and/or Brominated Systems

(I) **Continuous addition:**

Initial Treatment - To keep systems free of algae, maintain up to 2.5 fluid ounces per 10,000 gallons of water, or about 2 ppm, of Bellacide 329 in the system water (which is equivalent to about 1 ppm active ingredient) in conjunction with either continuous dosing or regular shock doses (for example, one hour, twice a day) of 0.1 – 1 ppm free chlorine and/or bromine. In order to achieve a maintenance level of 2 ppm Bellacide 329 by continuous addition it will be necessary to have an appropriate dosing pump and know the volume, half-life (makeup/blowdown rate), evaporative rate, and windage loss of the system.

Maintenance Treatment - Concentrations below the recommended level of 2 ppm Bellacide 329 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Bellacide 329 required.

(II) **Slug/Intermittent addition:**

Initial Treatment - Apply sufficient Bellacide 329 to maintain up to 2 ppm Bellacide 329 in the water together with chlorination and/or bromination as described under the continuous addition section. Dosing concentration and frequency will be dependent upon a system's volume and half-life (makeup/blowdown rate). For example, to maintain 2 ppm Bellacide 329 in a system with a volume of 10,000 gallons and a half-life of 3 days, an initial dose of 4 ppm Bellacide 329 would be required (about 5 fluid ounces in 10,000 gallons), followed by additions of 2 ppm Bellacide 329 (about 2.5 fluid ounces in 10,000 gallons) every 3 days.

Maintenance Treatment - Concentrations below the recommended level of 2 ppm Bellacide 329 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Bellacide 329 required.

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It is recommended that Bellacide 329 be dosed at the same time as the chlorine and/or bromine is dosed and as close as possible to the chlorine and/or bromine dosing point.

Non-Chlorinated and/or Non-Brominated Systems

(I) **Continuous addition:**

Initial Treatment - To keep systems free of algae, maintain up to 8 fluid ounces per 10,000 gallons of water, or about 6.7 ppm, of Bellacide 329 in the system water (which is equivalent to about 3 ppm active ingredient). In order to achieve a maintenance level of 6.7 ppm Bellacide 329 by continuous addition it will be necessary to have an appropriate dosing pump and know the volume, half-life (makeup/blowdown rate), evaporative rate, and windage loss of the system.

Maintenance Treatment - Concentrations below the recommended level of 6.7 ppm Bellacide 329 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Bellacide 329 required.

(II) **Slug/Intermittent addition:**

Initial Treatment - Apply sufficient Bellacide 329 to maintain up to 6.7 ppm Bellacide 329 in the water. Dosing concentration and frequency will be dependent upon a system's volume and half-life (makeup/blowdown rate). For Example, to maintain 6.7 ppm Bellacide 329 in a system with a volume of 10,000 gallons and a half-life of 3 days, an initial dose of 13.4 ppm Bellacide 329 would be required (about 16 fluid ounces in 10,000 gallons), followed by additions of 6.7 ppm Bellacide 329 (about 8 fluid ounces in 10,000 gallons) every 3 days.

Maintenance Treatment - Concentrations below the recommended level of 6.7 ppm Bellacide 329 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Bellacide 329 required.

{Below are two optional warranty statements, short and long versions, which may be used on label interchangeably}

[NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.]

{or}

[Conditions of Sale and Warranty

The directions for use of this product reflect the opinion of experts, based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness, or other unintended consequences, may result because of such factors as the presence of other materials or the manner of use, all of which are beyond the control of Bio-Lab, Inc. or the seller. All such risks shall be assumed by the buyer. Bio-Lab, Inc. makes no warranty whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose for this product. Under no circumstances shall Bio-Lab, Inc. be liable for incidental, consequential or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability of Bio-Lab, Inc. for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.]

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with COMMENTS
in EPA Letter Dated:

MAY 08 2000

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Fungicide, and Rodenticide Act as
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{Left Panel}

Precautionary Statements Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through the skin or inhaled. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse. Put on clean clothing. Follow personal protective equipment manufacturer's instruction for cleaning/maintaining personal protective equipment. If no such instructions for washables exists, use detergent and hot water. Store and wash personal protective equipment separately from other laundry. Remove personal protective equipment immediately after handling the product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Statement of Practical Treatment:

If Swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If on Skin: Wash with plenty of soap and water. Get medical attention.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

ENVIRONMENTAL HAZARDS

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 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 or disposal.

Storage: Protect from freezing.

Pesticide Disposal:

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal:

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

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Precaution:

Do not use Bellacide 329 in recirculating cooling water systems or decorative and ornamental fountains where the treated water will come into contact with lawns, trees, shrubs, or other desirable plants, since injury may result. Water from treated systems may not be used for irrigation or spraying of agricultural crops, lawns, or ornamental plants, or for watering cattle, goats, hogs, horses, poultry, or sheep, or for human consumption.

General Information:

Heavy algae growth contributes to restricted water flow in recirculating cooling water systems, thereby impairing the efficiency of the system, especially heat-exchange efficiency. Bellacide 329 alone or a combination of Bellacide 329 and chlorine or a chlorine releasing agent (such as sodium, calcium, or lithium hypochlorite) used regularly controls algae and prevents re-establishment of algae when used according to directions.

Clean badly fouled systems before treatment. It is recommended that treatment be used prior to the first signs of algal growth, or after cleaning a system whose efficiency is already impaired by algal growth. Apply at a point in the system where Bellacide 329 will be uniformly mixed, such as in the tower sump.

Bellacide 329 is compatible with other water treatment products, including polymeric anionic scale inhibitors and dispersants, has low-foaming properties, and is non-corrosive to piping and equipment.

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