



PM 31 3377-49 9-25-98 1644

U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

3377-49

Date of Issuance:

9/25/98

**NOTICE OF PESTICIDE:**

☒ Registration  
☐ Reregistration

(under FIFRA, as amended.)

Term of Issuance:

Conditional

Name of Pesticide Product:

BEQ442-5-W Biocide

Name and Address of Registrant (include ZIP Code):

Albemarle Corporation  
451 Florida Street  
Baton Rouge, LA 70801

**Note:** Changes in labeling affecting in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. " 3377-49.
  - b. The preferred nomenclature for the active ingredient is "Alkyl" not "n-Alkyl."
  - c. Under the "Industrial and/or Commercial Recirculating Cooling Water Towers" Directions for Use, the use dilution in the second sentence, "Should the above dosage .... of water", is not consistent with the Me-Too product's label, 10324-77. According to 10324-77's label, the use dilution should be 9 fluid oz. per 1,000 gallons of water.

Signature of Approving Official:

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

Date:

SEP 25 1998

d. Changes to "Precautionary Statements"

1. The "Precautionary Statements" should precede the "Statements of Practical Treatment" when the "statements of practical treatment" are not on the front panel. It should follow the signal word.
2. Since primary eye and skin irritation acute toxicology falls into Category I, the first sentence should be revised to "causes irreversible eye damage and skin burns."
3. Since the acute oral toxicology is Category II, the fourth sentence should be revised to "may be fatal if swallowed".
4. The statement, "Remove contaminated clothing and wash before reuse," should be added to the precautionary statements.

e. Changes to "Practical Treatment" statements

1. IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.
2. IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
3. For the IF SWALLOWED statement, Call a physician immediately should be the first sentence and add the statement, "Do not induce vomiting or give anything by mouth to an unconscious person." Also, milk should be included in the intake options. (IE: eggwhites or gelatin solution)

f. The "Environmental Hazards" statement should be revised to read:

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.

g. **Changes to "Storage and Disposal"**

According to PR Notice 83-3, "all product labels are required to have appropriate storage instructions. Since this product is used for industrial and commercial recirculation cooling water towers, the "Storage" instructions should mirror product 3377-48's storage statements which includes the spill/leak procedures?

3. **Submit two copies of the revised final printed label for the record.**

If these conditions are **not** complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

<p>Signature of Approving Official:</p> <p><i>Velma Noble</i></p> <p>Velma Noble Product Manager 31 Regulatory Management Branch Antimicrobials Division (7510W)</p>	<p>Date:</p> <p><b>SEP 25 1990</b></p>
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**ALBEMARLE®**  
**BEQ442-5-W**  
**BIOCIDE**

Water Treatment Microbiocide for Recirculating Cooling Water Tower and Molluscs in Once Through Fresh Water Cooling Systems.

**ACTIVE INGREDIENTS:**

n-Alkyl (60% C<sub>12</sub>, 30% C<sub>10</sub>, 5% C<sub>11</sub>, 5% C<sub>13</sub>)  
dimethyl benzyl ammonium chloride ..... 25.0%

n-Alkyl (68% C<sub>12</sub>, 32% C<sub>14</sub>)  
dimethyl ethyl benzyl ammonium chloride ..... 25.0%

**INERT INGREDIENTS:** ..... 50.0%

**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH**  
**OF CHILDREN**  
**DANGER**

See side panel for additional  
precautionary statements

**STORAGE AND DISPOSAL**

**PROHIBITIONS** - Do not store near heat or open flame. Do not contaminate water, food or feed by storage or disposal.

**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 Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**

**METAL CONTAINERS** : Triple rinse (or equivalent). Then offer for recycling or reconditioning puncture and dispose of in a sanitary landfill, or by other approved State and local Procedures.

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

**TANK CLEANING** - Transport tanks and equipment should be thoroughly drained and rinsed with water to properly remove all traces of product. Dispose of washings as indicated Under Pesticide Disposal. Liquid and solid residues are hazardous.

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

**DANGER**  
**KEEP OUT OF REACH**  
**OF CHILDREN**

**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. IF swallowed, drink promptly a large quantity of egg whites, gelatin solution, or if these are unavailable, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN**

Probable mucosal damage may contraindicate the use of gastric lavage.

**CORROSIVE**

Causes severe eye and skin damage. Do not get in eyes, on skin, or clothing. Remove contaminated clothing and wash before reuse. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Harmful or fatal if swallowed. Avoid contamination of food.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds or public waters unless this product is specifically identified and addressed in an NPDES permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your state water board or Regional Office of the Environmental Protection Agency.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not mix with soap or anionic materials. Do not use or store near heat or open flame.

**ALBEMARLE CORPORATION**  
451 Florida Street  
Baton Rouge, LA 70801



In case of an emergency endangering life or property involving this product, call collect (504) 344-7147.

EPA Reg. No. 3377-00  
EPA Est. No. 10324-IL-1

**DIRECTIONS FOR USE**

Read and follow the label and the instructions of Federal Law to use this product in a manner consistent with its labeling.

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

Use of this 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 systems 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.

To control algae and bacterial slimes use BEQ442-5-W as directed. For best results use slug feed. The frequency of addition of microbiocide needed depends on many factors. To optimize your use of BEQ442-5-W, follow this procedure

**INDUSTRIAL AND/OR COMMERCIAL**  
**RECIRCULATING COOLING WATER TOWERS**

- Initially use 6 fluid ounces per 1,000 gallons of water to be treated (20 ppm active Quaternary). Should the above dosage not give satisfactory results, use 8 fluid ounces per 1,000 gallons of water. Repeat the initial dose every seven days or increase the frequency if needed.
  - When the above treatment level is successful use 2 to 3 fluid ounces per 1,000 gallons of water to maximize efficiency. Repeat weekly as needed. Should slime develop again, go back to initial dosage.
- Cooling towers that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages; slug fed every seven days.
- Dilute the appropriate of BEQ442-5-W in 1 or 2 gallons of water, then add to the tower.
- Note, this product weighs 8.0 lbs per gallon (at 20° C). Should tower be heavily fouled, a precleaning is required.

**ONCE THROUGH FRESH WATER COOLING SYSTEM**

- Wear safety glasses, rubber gloves and impervious apron.
- Add product directly from drum or add the product at a point where it will be mix uniformly.
- To reduce foaming, mix 2 parts of water to 1 part of product.
- 0.15 to 1.5 fluid ounces (1-10 ppm on an active quaternary basis) per thousand gallons.
- Do not discharge without performing proper deactivation. To perform deactivation use Bentonite Clay. The minimum ratio to be used is 5 ppm of clay to 1 ppm of product.
- Do not use product more than 4 times per year.
- Treatment time can not exceed 120 hour/application.
- Avoid oxidizers and reducing agents.
- Product is cationic and should not be mixed with soap or anionic surfactants.

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

**SEP 25 1998**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 3377-49

Alt.WPD

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