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11/25/2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 25 2003

Ms. Ann Oxford  
Albemarle Corporation  
451 Florida Street  
Baton Rouge, LA 70801-1765

Subject: AC-76-5-PW Biocide  
EPA Registration No. 3377-48  
Amendment Date: August 26, 2003  
EPA Receipt Date: August 27, 2003

Dear Ms. Oxford,

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

- Update First Aid Statements per PR Notice 2001-1

**Conditions**

Revise the label as follows:

1. Precautionary Statement revisions:
  - a) Add the statement, "May be fatal if absorbed through the skin."
  - b) Delete the statement, "Avoid contamination of food."
  - c) Revise the statement, "Wash thoroughly with soap and water after handling," to read "Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco."
2. According to PR Notice 2001-1, the "First Aid" statements must be organized so that the severest route of exposures, as demonstrated by the toxicity classification, are listed first (I.E. If in eye, If on skin or clothing, If swallowed, If inhaled.).
3. Under the "Swimming Pool" directions, delete references to quaternary test kits because they are not available to the general public.

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

- 4. Under "Recirculating Cooling Water Towers," revise the directions to read:

Initial Application: When the system is clean or first microbial growth is noticed, add 5.25 to 10.25 fl. oz. (20 to 40 ppm ai) per 1000 gallons of water in the system. The dosage must be poured into the sump of a system where it will be mixed uniformly. When heavy algae growth is present, the system must be cleaned manually.

Subsequent Dose: When control of microbial growth is evident, apply 1.33 to 3.85 fl oz (5-15 ppm ai) per 100 gallons of water in the system. The dosage must be poured into the sump of a system where it will be mixed uniformly. This application must be repeated twice weekly or as needed. If algae growth is noticeable, apply initial dose. When heavy algae growth is present, the system must be cleaned manually.

- 3. Under "once through freshwater cooling systems," you must revise step one to be consistent with the personal protective equipment outlined in the "Precautionary Statements." The user must wear safety glasses, protective clothing, rubber gloves, and mist filtering respirator (MSHA/NIOSH approval number TC-21C) or NIOSH approved respirator with any N, R, P, or HE filter.

- 4. Under "Container Disposal," the container sizes must be specified by revising the following phrases:

- a) "Small plastic jugs or pails" to state "containers less than 1 gallon or 5 lbs."
b) "Plastic pails or drums 50 lb and larger" to state "containers 1 gallon/ 5 lbs or more."

General Comments

A stamped copy of the labeling accepted with conditions is enclosed. Submit three (3) copies of your final printed labeling 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.

Sincerely,

for [Signature]
Velma Noble

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

CONCURRENCES

Table with 8 columns and 3 rows for tracking approvals. Headers: SYMBOL, SURNAME, DATE.

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# ALBEMARLE® AC76-5-PW BIOCIDES

Albemarle AC76-5-PW Biocides for control of Algae and Algae Slime Growth in Swimming Pools, Spas, Whirlpools, Hot Tub Baths and Industrial and/or commercial recirculation cooling water towers in once through fresh water cooling systems.

**ACTIVE INGREDIENTS:**

Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>) dimethyl benzyl ammonium chloride..... 49.8%

Dialkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>) methyl benzyl ammonium chloride..... 0.2%

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

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

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**FIRST AID**

**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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

**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. 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.



In case of an emergency endangering life or property involving this product, call collect (225) 344-7147.

EPA Reg. No. 3377-48  
EPA Est. 10324-IL-1, 71728-IL-1

Net Contents \_\_\_\_\_

ACCEPTED  
WITH COMMENTS  
in MSD Letter Dated:

NOV 25 2003

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

3377-48

**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. May be fatal if swallowed. May be fatal if inhaled. Do not breathe spray mist. For handling activities during mist exposures, wear a mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS [for 5 gallon packages and larger]**

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.

**PHYSICAL OR CHEMICAL HAZARDS**

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

**DIRECTIONS FOR USE:**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not use water containing residue 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 this 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.

**SWIMMING POOLS:**

**Initial Application**

Ensure all equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH between 7.2-7.6. Check for metals and if present add stain and scale inhibitor to prevent staining of pool surface due to metals. When using other products as outlined in directions for this product, always follow directions on those products. Add 26 fluid oz. AC76-5-PW Biocide to each 50,000 gallons of water or ration thereof. Add Biocide directly into pool by pouring around entire outside perimeter of pool. Allow the filter to run for at least six (6) hours after adding Biocide. During this period, swimmers should not be allowed into water. If algae growth is visible apply the initial dose. Vacuum pool after 24 hours to remove dead algae. If algae is still visible repeat dose as necessary until pool is free of visible algae.

**Continued Application**

6.5 fluid oz. of AC76-5-PW Biocide in 50,000 gallons of water every 3-5 days or as needed to maintain 2 ppm active. Quaternary test kits are available for this use.

**Booster Application**

6.5 fluid oz. of AC76-5-PW Biocide in 50,000 gallons of water after a heavy or prolonged rainfall or while there is a heavy bathing load. The above booster application directions should be followed even when the pool is not in use.

**ALTERNATE WINTERIZING METHOD**

This product may be used with the following pool chemical to form a winterizing "package".

**Directions:**

1. Add a maintenance dose of chlorinating compound or oxygen shock. Before using chlorinating compound or oxygen shock, read the Directions For Use and Precautionary Statements specific to that product.
2. If using BAQUACIL™ pop up to 50 ppm. If not, skip to step 3
3. Add 80 fluid ounces of this product to 50,000 gallons of water in treating water left in pool (16 ounces in 10,000 gallons). This dose helps provide a measure of control 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.
4. Allow filter to run for several hours after chemical additions for good mixing.

When this product is used as directed, it will prevent development of *Chlorella pyrenoidosa* (green), *Phormidium inundatum* (black algae), *Phormidium retzi* (Square D Algae) *Lyngba versicolor* (blue-green) and other swimming pool algae.

This product is compatible with most commonly used swimming pool chemicals, but should not be mixed with soap or other anionic water-treating chemicals. This product works best when added by itself to pool water. This product, at use-dilution is non corrosive to inanimate surfaces.

ACCEPTED  
MATERIALS  
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**SPAS/WHIRLPOOLS/HOT TUB BATH:****Initial Application**

Ensure all equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH between 7.2-7.6. Check for metals and if present add stain and scale inhibitor to prevent staining of bath surface due to metals. When using other products as outlined in directions for this product, always follow directions on those products. Initial dose is used upon filling of Spas/Whirlpools/Hot Tub Bath. Add 1 fluid ounce of AC76-5-PW Biocide per 2,000 gallons of water or ration thereof. Add Biocide directly into bath by pouring around entire outside perimeter of bath. Allow the filter to run for at-least six (6) hours after adding Biocide. During this period, bathers should not be allowed into water.

**Maintenance Dose**

Add 0.3 fluid ounces of this product per 2,000 gallons of water Maintenance dose should be added at 3-5 day intervals. If high temperatures prevail or Spas/Whirlpools/Hot Tub Bath has unusually heavy use, add maintenance dose more frequently. Drain and clean Spas/Whirlpools/Hot Tub Bath at least once a month or as needed depending on bather load.

**INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS:****Initial Application**

The dose should be poured into the sump of a system which is clean or in which growth is first noticed. 5.25 to 10.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of contained water. When heavy algae growth is present, system will have to be cleaned manually.

**Subsequent Application**

1.33 to 3.85 fluid ounces (5 to 15 ppm on an active quaternary basis) per 1000 gallons of contained water. The above directions should be followed twice weekly or as needed. *If algae growth is noticeable, apply the initial dose.*

**ONCE THROUGH FRESHWATER COOLING SYSTEM**

1. Wear safety glasses, rubber gloves and impervious apron.
2. Add product directly from drum or add the product at a point where it will be mixed uniformly.
3. Add 0.15 fluid ounces of product per 1,000 gallons of water (1-10 ppm product). To reduce foaming, mix 1 part product to 2 parts water prior to addition.
4. 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.
5. Do not use product more than 4 times per year.
6. Treatment time cannot exceed 120 hours/application.
7. Avoid oxidizers and reducing agents.
8. Product is cationic and should not be used with soap or anionic surfactants.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in original container. Keep from freezing.

**PESTICIDAL 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 the 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** (small plastic jugs or pails) Do not reuse container, place in trash collection. Rinse thoroughly before discarding in trash.

(plastic pails or drums 50 lb and larger) Triple rinse (or equivalent). Then offer for recycling or recondition, 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 smoke.

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