

3377-48

3-28-2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Albemarle Corporation  
451 Florida Street  
Baton Rouge, LA 70801

MAR 28 2000

Subject: AC76-5-PW Biocide  
EPA Registration No. 3377-48  
Amendment Dated: 12/29/99  
EPA Receive Date: 12/30/99

Attention: Mr. John Hebert,  
Consultant

The amendment referenced above, submitted in connection with registration under FIFRA, as amended to add an additional use site, spas/whirlpools/hot tubs, is acceptable provided you address the following labeling comments before you release this product for shipment.

Under "Alternate Winterization Method," the last statement in the paragraph, "Before using chlorine or oxygen shock, ....statements," should be placed as the second sentence under point 1.

The "Precautionary Statements" and "Statements of Practical Treatment" will need to be revised to reflect the 6(a)(2) acute inhalation data. Based on a review of the data, this product is Category II for acute inhalation toxicity. Therefore, the appropriate acute inhalation statements, "May be fatal if inhaled. Do not breath spray mist. For handling activities during [insert applicable terms based on directions for use: air blast mistpower, pressure greater than 40 p.s.i. with fine droplets, smoke, mist, fog, aerosol, or direct overhead] exposures, wear one of the following NIOSH-approved respirators: (1) a non-powered cartridge respirator equipped with a high efficiency particular air (HEPA) filter (MSHA/NIOSH approval number prefix TC-21C)," will need to be added to the Precautionary Statements. You should also refer to PR Notice 98-9 to assist you with the accurate respirator language. Also, the "Statements of Practical Treatment" will need to be revised by adding the following: "IF INHALED: Remove victim to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention."

As you are aware, a substantially different acute toxicity profile was developed when

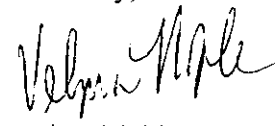
CONCURRENCES

SYMBOL	15100							
SURNAME	Campbell							
DATE	3/28/00							

reviewing your 6(a)(2) submission for this product than the one in an Agency letter dated April 6, 1999. It is our understanding that you have conducted acute toxicity studies for several of your products. These studies must be submitted in order to resolve the differences between the two Agency Acute Toxicity Profiles. Please submit these studies within 60 days from the date of this letter.

A stamped copy of the label is enclosed for your records. You will need to submit one copy of the final printed label before you release this product for shipment. If you have any questions regarding this letter, please contact Jacqueline Campbell at (703) 308-6416.

Sincerely,



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

## 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 chloride or oxygen shock
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), *Lynaba 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. Before using chlorine or oxygen shock, read the Directions For Use and Precautionary Statements specific to that product.

### 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.

# ALBEMARLE® AC76-5-PW BIOCIDE

Albemarle AC76-5-PW Biocide 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 and molluscs 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

#### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Get medical attention. IF SWALLOWED: Call a physician immediately. Drink promptly a large quantity of egg whites, gelatin solution, milk, or if these are not available, drink large quantities of water. Do not induce vomiting or give anything by mouth to an unconscious person. Avoid alcohol.

#### NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage.

SEE RIGHT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

ALBEMARLE CORPORATION

451 Florida Street  
Baton Rouge, LA 70801  
ACCEPTED

with COMMENTS  
in EPA Letter Dated

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

MAR 28 2000

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

ALBEMARLE®

EPA Reg. No. 3377-48  
EPA Est. No.

Net Contents

Subs

1.33 to 3.85 fluid ounces (5 to 10) contained water.

The above directions should be followed if the effect is noticeable, apply the initial dose.

### ONCE THROUGH

1. Wear safety glasses, rubber gloves, and a long-sleeved shirt.
2. Add product directly from container mixed uniformly.
3. Add 0.15 fluid ounces of product per 1000 gallons of water to reduce foaming, mix 1 part product to 10 parts water.
4. Do not discharge without proper treatment. Add Bentonite Clay. The minimum dosage is 1 lb per 1000 gallons.
5. Do not use product more than once.
6. Treatment time can not exceed 24 hours.
7. Avoid oxidizers and reducers.
8. Product is cationic and should not be used with anionic products.

PREC  
HAZARDS T

KEEP OUT

Causes irreversible eye damage if in contact with clothing. May be fatal if swallowed or inhaled when handling. Avoid contact with skin and eyes after handling. Remove clothing if contaminated.

ENT  
This pesticide is toxic to fish and aquatic life. It does not meet the requirements of a National Freshwater Aquatic Insecticide if the permitting authority has not approved the effluent containing this product. For more information, contact the Regional Office of the EPA.

PHYSICIAN  
Do not use or store near heat.

STOR

Do not contaminate water, food, or feed.

1. STORAGE INSTRUCTIONS

Open dumping is prohibited.

2. SPILL OR LEAK PROCEDURES

Small spills may be mopped up with absorbent material and incinerated.

3. PESTICIDAL DISPOSAL

Pesticide wastes are acutely toxic. Do not reuse, mix, or dispose of by the use according to label.

Control agency or the Hazardous Waste Management and Emergency Response Office for guidance.

4. CONTAINER DISPOSAL

Do not reuse empty containers for other purposes. Do not burn, reuse, or puncture.

5. GENERAL INFORMATION

Consult Federal, State, or local health and safety procedures such as limited.