



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 18 2003

Anne M. Oxford
Albermarle Corporation
451 Florida Street
Baton Rouge, LA. 70801

SUBJECT: January 27, 2003 letter
Albrom 100 Disinfectant
EPA Registration 3377-72

Dear Ms. Oxford:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. You must correct the following typos: change products to product on page 1 and harness to hardness on page 3. On page 2 insert the word separately to the last sentence under the Hazards section so that it reads "Remove contaminated clothing and wash clothing separately before reuse." In summary, your revisions to the water chemistry parameters for hot tubs and swimming pools are acceptable.

A copy of your revised conditionally approved label is enclosed. You must submit a revised finished label for our files. If you have any questions regarding this letter, please contact Tom Luminello of my staff at (703) 308-8075.

Sincerely yours,

[Handwritten signature of Robert S. Brennis]

Robert S. Brennis
Product Manager (32)
Regulatory Management Branch II
Antimicrobial Division (7510-C)

Enclosure

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE, and multiple empty columns for CONCURRENCES. Handwritten entries: SYMBOL 7510-c, SURNAME Luminello, DATE 4-18-03.

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ALBROM 100 DISINFECTANT

For Use In Disinfection of Pools, Spas and Hot Tubs and to Control Microbial Growth in Decorative Waters

Active Ingredient	
1,3-dibromo-5,5-dimethylhydantoin	96.4%
Other Ingredients	3.6%
TOTAL	100.0%

Available bromine: 108%

KEEP OUT OF REACH OF CHILDREN DANGER

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. Call a poison control center or doctor for treatment advice.

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 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 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.

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.

EPA Reg. No. 3377-72
EPA Est. 66397-OK-1



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

Net Contents: _____

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 18 2003

Product
In case of emergency involving this pesticide,
call collect (225) 344-7147 or contact your state
pesticide regulator, or contact the manufacturer,
Albemarle Corporation, 451 Florida Street,
Baton Rouge, LA 70801. EPA Reg. No.

3377-72

**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 chemical goggles or safety glasses, protective clothing and rubber gloves. May be fatal if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Harmful if absorbed through skin. Harmful if inhaled. Avoid breathing dust. Remove contaminated clothing and wash clothing before reuse. *separately*

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public 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.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT. Do not mix with other chemicals. Mix only with water. Never add water to product, always add product to large quantities of water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood with large volumes of water, if necessary.

STORAGE AND DISPOSAL

STORAGE: Keep this product dry in original tightly closed container when not in use. Store in a cool, dry, well ventilated area away from 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 is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, or if decomposition occurs, isolate container and flood area with large amounts of water to dissolve all material before discarding this container.

CONTAINER DISPOSAL

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

(tear open pouches) Do not reuse bag. Discard 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.

(fiber lined drums 300 lb and larger) Completely empty liner by shaking and tapping sides and bottom to loosen cling particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in same manner.

Buyer assumes all responsibility for safety and use not in accord with directions.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with the labeling. Read entire label and use strictly in accord with precautionary statements and Directions for Use.

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DISINFECTING SPAS AND HOT TUBS

When used as directed, ALBROM 100 DISINFECTANT is an effective disinfectant for your spa or hot tub water, keeping it clean, clear, fresh and free of odor. ALBROM 100 DISINFECTANT gives the effectiveness of chlorine without the chlorine odor.

To start up a new spa or one recently drained, clean all surfaces, or clean the filter media. Balance the calcium hardness and total alkalinity, treat for iron, copper and manganese, if necessary. Adjust the pH to 7.2 - 7.8, prior to initiating treatment with ALBROM 100 DISINFECTANT.

Place ALBROM 100 DISINFECTANT in suitable feeder. Adjust the feeder according to the manufacturer's directions to maintain a bromine level between 2 - 4 ppm in residential spas and 3 - 6 ppm in commercial spas. Check your feeder regularly and add additional product as needed. Maintenance of residual is dependent on water temperature, light intensity and bather load, and requires frequent checks with a test kit. Use a reliable test kit for the bromine measurements. The pump and filter should be operated at least three hours every day or daily as per manufacturer's instructions. Outdoor hot tubs and spas may require more frequent cleaning and treatment with ALBROM 100 DISINFECTANT.

To maintain clear, clean water and insure performance of your spa or hot tub chemicals, water should be drained and spa or hot tub refilled with fresh water every 60 days or as per spa manufacturer's instructions.

DISINFECTION OF SWIMMING POOLS

Initial Application

Ensure all equipment is working properly. Backwash or ^{hardness} clean the filter following the manufacturer's directions. If necessary, chemically balance the calcium ^{hardness} hardness to 200 ppm and total alkalinity to 100 - 150 ppm. Adjust the pH to 7.2 - 7.8. Fill suitable feeder with ALBROM 100 DISINFECTANT. Adjust the feeder flow of water according to the manufacturer's directions to maintain a bromine residual between 1 - 4 ppm in the pool (approximate use rate of 0.5 ounces per 1000 gallons of water). Maintenance of residual is dependent on ambient temperature, light intensity and bather load, and requires frequent checks with a test kit. Use a reliable test kit to measure bromine residual. The pump and filter should be operated at least eight hours every day regardless of use. Outdoor pools may require longer filtering and consume higher amounts of ALBROM 100 DISINFECTANT.

Continued Application

Check the feeder periodically and refill with additional product. Adjust the feeder flow of water according to the manufacturer's directions to maintain a bromine level between 1 - 4 ppm in the pool. Use a reliable test kit for the bromine measurement. The pump and filter should be operated at least eight hours every day regardless of use. Outdoor pools may require longer filtering and consume higher amounts of ALBROM 100 DISINFECTANT.

Superoxidation: Water soluble, non-filterable wastes can accumulate in spa, hot tub and pool water causing dull or cloudy water and stimulating algae growth. Superoxidation with a suitable oxidizing shock treatment should be done on a regular basis to remove these wastes and maintain clear sparkling water. A suitable oxidizing agent is: [ONE OR MORE OF THE FOLLOWING WILL APPEAR ON THE LABEL.]

- ◆ Calcium hypochlorite [alternatively a trade name may be substituted.]
- ◆ Lithium hypochlorite [alternatively a trade name may be substituted.]
- ◆ Sodium dichloroisocyanurate [alternatively a trade name may be substituted.]
- ◆ Sodium hypochlorite [alternatively a trade name may be substituted.]
- ◆ Potassium peroxymonopersulfate [alternatively a trade name may be substituted.]

When using other products as outlined in directions for this product, always follow directions on those products.

Printed Date:

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Do not directly mix this product in concentrated form with any other chemicals. Do not add other chemicals in the feeder when using this product. A violent reaction leading to fire and/or explosion could result.

Treatment levels of ALBROM 100 DISINFECTANT can best be measured with a test kit for bromine. Tests should be conducted immediately after drawing samples from the pool. Use a bromine test kit according to directions.

After application, ensure that the bromine level is below 7.5 ppm before reentering the spa, hot tub or pool.

To determine pool capacity: Rectangular Pools - Length times width times average depth (in feet) times 7.5 equals gallons. Round and Oval Pools - long diameter times short diameter times average depth (in feet) times 5.9 equals gallons.

DECORATIVE WATERS

When used as directed, this product effectively controls algal, bacterial, and fungal slime in lakes, ponds, ornamental ponds and fountains that do not contain fish or other aquatic fauna. To control microbial growth add a sufficient amount of this product to achieve and maintain a bromine residual 0.5 - 5 ppm or as needed to obtain control of the system. If using a dispensing device, adjust the device feed rate to assure a constant treatment level between 0.5 and 5 ppm residual bromine. Regular use of a test kit is necessary to maintain an appropriate bromine residual in the system.

ACCEPTED
INSTRUMENTS

Number Dated:

APR 18 2003

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... EPA Reg. No.

3377-72

ALBROM 100 DISINFECTANT

EPA Reg. No., 3377-72

Optional marketing statements

The following statements may or may not appear on the label, or may appear in combination

For Use with Vinyl Lined Pools
 For Use in All Pools
 For above-ground and in-ground pools
 Ideal for all pool surfaces
 Ideal for all pool and spa surfaces
 Ideal for all pool, spa and hot tub surfaces
 Ideal for all spa and hot tub surfaces
 Ideal for above-ground pools
 Ideal for vinyl pool surfaces
 Safe for all pool surfaces
 Safe for all spa surfaces
 Safe for all pool and spa surfaces
 Safe for all pool, spa and hot tub surfaces
 Safe for all spa and hot tub surfaces
 For all pool surfaces
 For Spas & Hot tubs

For use in all pool types (This statement alerts consumer to the fact they may use this product in above ground, in ground, indoor, outdoor, plaster, vinyl, and fiberglass pools)

Easy to use
 Easy and convenient
 Convenient to use
 Easy, single-step bromine disinfectant

Non-foaming
 Non-staining
 No heavy metals

Oxidizes and clarifies for beautiful water
 Oxidizes and clarifies for clean, clear water
 Clarifies
 For routine disinfection and clarification
 Keeps water clear
 Provides Crystal Clear Water
 For Clear, Clean Water
 No more algae stains
 Sparkling, clear water
 Restores water sparkle
 Clear, clean water
 Disinfects, clarifies, and protects

For application in feeders and floaters

Suitable for use with alternative devices such as ionizers, electrolysis and mineral feeders

Bromine disinfectant
 Bromine disinfectant and clarifier
 Disinfectant and algistat
 Disinfectant and algicide
 Bromine technology
 Single step
 One step disinfecting system

Patented
 Patents pending

For commercial use

Slow dissolving tablets

100% chlorine-free
 Chlorine-free
 Contains no chlorine
 No chlorine odor
 No chlorine smell
 No chloramines

Low odor

Kills E. coli and Enterococcus faecium
 Kills E. coli
 Kills Enterococcus faecium
 Kills bacteria such as E. coli and Enterococcus faecium

With built-in clarifier, filter enhancer

1" tablets [alternatively the size may be changed to reflect a different size tablet or the word inch may replace the symbol ""]

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

APR 18 2003
 under the Federal Insecticide,
 Fungicide, and Rodenticide Act as
 amended, and as a pesticide,
 registered under EPA Reg. No.
 3377-72