

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

3377-49

08/01/2000

1/3

Albemarle Corporation
451 Florida St.
Baton Rouge, LA 70801-1765

AUG 1 - 2000

Subject: BEQ 442-5-W Biocide
EPA Registration No. 3377-49
Amendment Date: 4/25/00
EPA Receive Date: 5/03/00

Attention: Ms. Ann Oxford

The amendment, referenced above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A) to update the labeling is acceptable provided the following recommendations are addressed before this product is released for shipment.

Acute Toxicology

The acute toxicology studies submitted 4/25/00 for 3377-40 will also support BEQ 442-5 Biocide (3377-41) and BEQ 442-5-W (3377-49). Since all three products contain the same active ingredients only differing by concentration, the data conducted on 3377-40 will be bridged to support 3377-41 and 3377-49.

Acute Toxicology Profile:

(You should refer to the Agency letter for 3377-40 for the acute toxicology data evaluation.)

<u>Guideline</u>	<u>Toxicity Category</u>
acute oral toxicity	II
acute dermal toxicity	II
acute inhalation toxicity	II
primary eye irritation	I
primary skin irritation	I
dermal sensitization	non-sensitizer

The "Precautionary Statements" will ~~not~~ be revised to reflect toxicity category II for

SYMBOL	190C						
SURNAME	Campbell						
DATE	7/31/00						

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

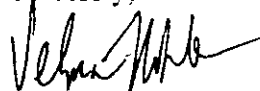
OFFICIAL FILE COPY

acute dermal by stating "May be fatal if swallowed, absorbed through the skin, or inhaled."

Under Once Through Fresh Water Cooling System, the dilution rate, 1.5 fl. oz per 1000 gallons of water does not equal 10 ppm product but 12 ppm. You will need to revise the range accordingly.

A stamped copy of the label is enclosed for your records. You will need to submit one copy of the final printed label to the Agency before this product is released 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)

Enclosure: Stamped Label

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.

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 8 fluid ounces per 1,000 gallons of water to be treated (20 ppm active quaternary). Should this dosage not give satisfactory results, use 9 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 efficacy. Repeat weekly as needed. Should slime develop again, go back to initial dosage.

Cooling towers that are inherently low in algae growth and bacterial count may be adequately controlled by the lower range of these dosages, slug fed for every seven days.

Dilute the appropriate amount of BEQ442-5-W in 1 or 2 gallon of water, then add to the tower. Note, this product weighs 8.00 lbs per gallon (at 20°).

Should tower be heavily fouled, a precleaning is required.

ONCE THROUGH FRESH WATER COOLING SYSTEM

For control of Algae and Algae Slime Growth

- Wear safety glasses, rubber gloves and impervious apron.
- Add product directly from drum or add the product at a point where it will be mixed uniformly.
- Add 0.15 to 1.5 fluid ounces of product per 1000 gallons of water (1-10 ppm product). To reduce foaming, mix 1 part product to 2 parts water prior to addition.
- 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 hours/application.
- Avoid oxidizers and reducing agents.
- Product is cationic and should not be used with soap or anionic surfactants.

ONCE THROUGH FRESH WATER COOLING SYSTEM

For control of Molluscs (Use not approved in the State of California)

- Wear safety glasses, rubber gloves and impervious apron.
- Add product directly from drum or add the product at a point where it will be mixed uniformly.
- Add 0.15 to 1.5 fluid ounces of product per 1000 gallons of water (1-10 ppm product). To reduce foaming, mix 1 part product to 2 parts water prior to addition.
- 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 hours/application.
- Avoid oxidizers and reducing agents.
- Product is cationic and should not be used with soap or anionic surfactants.

ALBEMARLE BEQ442-5-W BIOCIDES

Albemarle BEQ442-5-W Biocide for control of Algae and Algae Slime Growth in Industrial and/or Commercial Recirculation Cooling Water Towers and in Once Through Fresh Water Cooling Systems and for control of Molluscs in Once Through Fresh Water Cooling Systems (use not approved in the State of California)

ACTIVE INGREDIENTS:

Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈)
dimethyl benzyl ammonium chloride25.0%

Alkyl (68% C₁₄, 32% C₁₆) dimethyl ethyl benzyl ammonium chloride25.0%

INERT INGREDIENTS:50.0%

TOTAL:100.0%

KEEP OUT OF REACH OF CHILDREN DANGER

side
See left panel for additional precautionary statements

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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 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 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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

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

EPA Reg. No. 3377-49
EPA Est. No. 10324-IL-1

Batch No. _____ Net Contents _____

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 or inhaled. Do not breathe spray mist. Wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). Harmful if absorbed through skin. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

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.

STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS

Store in original container. Keep from freezing.

SPILL OR LEAK PROCEDURES

Small spills may be mopped up, flushed away with water, or absorbed on some absorbent material and incinerated. Large spills should be contained, the material then moved into containers and disposed of by approved methods for hazardous wastes.

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

CONTAINER DISPOSAL:

PLASTIC CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

TOTES: Verify that the tote is empty. Do not rinse or clean. Seal tote and contact appropriate vendor for tote pickup.

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.

04/00

ACCEPTED
with COMMENTS
in EPA Letter Dated:

AUG
AUG 01 2000

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

3377-49

6/13