

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 15 1998

Elf Atochem North America, Inc.
2000 Market Street
Philadelphia, PA 19103-3222

Attention: Christopher Davis

Subject: EVAC Biocide
EPA Registration No. 4581-380
Amendment Dated March 6, 1998


The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided you comply with the items listed below. The agency has no objection to your lowering your application dosage rate, and replacing the claim "Zebra Mussel" with "Freshwater and Saltwater Mollusks" on the product label.

1. Submit /cite all data required for registration/reregistration of your product under FIFRA section 3 (c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final labeling before your release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

Sincerely,



Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510W)

CONCURRENCES

| SYMBOL | | | | | | | | |
|---------|--|--|--|--|--|--|--|--|
| SURNAME | | | | | | | | |
| DATE | | | | | | | | |

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ACCEPTED
with COMMENTS
in EPA Letter Dated:

EVAC™ BIOCIDE

MAY 15 1998
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
4581-380

ACTIVE INGREDIENT:

Mono(N,N-dimethylalkylamine**) salt of endothall* 53.0%

INERT INGREDIENTS: 47.0%

TOTAL: 100.0%

Contains 2 lb. Technical endothall* per gallon
*7-oxabicyclo [2.2.1] heptane-2,3-dicarboxylic acid equivalent 23.36%
** Alkyl as in fatty acids of coconut oil

KEEP OUT OF REACH OF CHILDREN DANGER

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF ON SKIN, wash with plenty of soap and water. Get medical attention.

IF IN EYES, hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

EPA Registration No. 4581-380

EPA Establishment No. 228-IL-1

Net Contents 30 Gallons/113.5 Liters

Elf Atochem North America, Inc.
Agrichemicals Group
2000 Market Street
Philadelphia, PA 19103

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

FATAL IF ABSORBED THROUGH SKIN. MAY BE FATAL IF SWALLOWED. CORROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. MAY BE FATAL IF INHALED. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WEAR PROTECTIVE CLOTHING, RUBBER GLOVES, AND GOGGLES OR FACE SHIELD WHEN HANDLING. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Do not breathe vapor or spray mist.

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PERSONAL PROTECTIVE EQUIPMENT

Workers who will come in contact with the concentrated product must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Protective eyewear
- Chemical-resistant footwear plus socks

MAY 15 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 4581-380

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 Systems (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewage systems without previously notifying the local sewage treatment authority. For guidance contact your State Water Board or Regional Office of the EPA.

GENERAL INFORMATION

EVAC Biocide is a liquid concentrate soluble in water. The active ingredient of this product is highly effective in controlling established populations of freshwater and saltwater mollusks, and in preventing settlement of the immature forms of these mollusks. EVAC Biocide has also shown activity against various slime organisms in systems that recirculate water.

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The toxicity of EVAC Biocide to freshwater and saltwater mollusks is dependent on rate of application and the time of exposure. In lab studies, treatments of EVAC Biocide at 2.3 ppm for 6-7 hours were equivalent to those at 5 ppm for 2 hours. EVAC Biocide rapidly dissipates in water. Degradation in the environment is microbial only; it does not hydrolyze or photolyze In an aquatic environment. EVAC Biocide does not require a holding period or deactivation after use.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For control of established populations of freshwater and saltwater mollusks in recirculating and once through cooling water systems. EVAC Biocide should be applied at 3.0 to 0.3 ppm endothall technical (equivalent to 24 to 2.4 gallons per 1,000,000 gallons of water) for six to one hundred forty four hours of exposure.

EVAC Biocide can be metered directly into the system with a positive displacement pump or into a flow of dilution water for use in a distribution header. One continuous application should be made at a convenient point of uniform mixing, such as a basin area, pump area or other reservoir or collecting area from which treated water will be circulated uniformly throughout the system.

Higher rates of application and exposure times are required for heavy populations of fouling mollusks and/or with cooler water temperatures (less than 70°F).

EVAC Biocide has also shown potential for treating service water, auxiliary water, waste water, influent and fire protection water systems

Suspension of the blow down from cooling towers for six to twelve hours after EVAC Biocide application and/or segmenting plant-wide treatments will reduce the level of product remaining in the effluent.

STORAGE AND DISPOSAL

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

Storage Instructions: Store in the original container. Do not store in a manner where cross-contamination with other biocides could occur. In the event of spillage during handling or storage, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal Instructions for your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

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.

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Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING. Elf Atochem and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Elf Atochem.

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