November 29, 1999
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 5-569618

Aquabiotics Corporation P.O. Box 10576 Bainbridge Island, WA 98110 30/ 5-57/226 17

Attention: Mr. Nicholas A. Romeo

Subject:

Fintrol Concentrate

EPA Reg. No. 39096-2

Your letters of August 23 and October 14, 1999

The labeling submitted with the above letter is acceptable, provided that you submit one (1) copy of final printed labeling with the following changes before you release the product for shipment:

1. On the "Outer Can Label", separate the reason for restricted use from the restricted use statement as follows:

RESTRICTED USE PESTICIDE

Due to Aquatic Toxicity & Need for Highly Specialized Applicator Training.

For retail sale to, and use only by, Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicators' Certification.

We note that you deleted the following sentence from your "Restricted Use Pesticide" block: "For use exclusively by Federal or state fish and game agency personnel trained in fisheries management or persons under their supervision.". Since your product label now has the standard sentence, the second sentence is no longer required.

This registration will be subject to cancellation in accordance with FIFRA sec. 6(e) if you do not comply with these conditions. Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely,

DBN'

Daniel B. Peacock, Biologist Insecticide-Rodenticide Branch Registration Division (7504C)

Enclosure: 1. Stamped Label

C:\Antimycin A\39096-2.Nov1999.wpdNovember 29, 1999

TAKE TIME



OBSERVE LABEL DIRECTIONS

FINTROL-® CONCENTRATE

(antimycin A) (solution 20%)

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

DANGER: Fatal if absorbed through skin. Causes substantial but temporary eye injury. Causes skin irritation. Do not breathe spray mist. Do not get in accordance of the spray mist. in eyes, on skin or on clothing.
Wear protective goggles. Wear
chemical gloves. Wash thoroughly
with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

Environmental Hazards This product is very highly toxic to fish

STORAGE AND DISPOSAL Do not cantificated water food in the of by storage or disposal. SEE OUT ER CAN LABEL FOR PROPER STORAGE, PESTICIDE ID SPOSAL AND CONTAINER COPYLYA.

EPA Reg. No. 354 (n.d. EPA Est. No. 354356-474)

Fintrol Concentrate for use with Fintrol (Antimycin) Fish Toxicant Kit Ingredients

Active Ingredients
Antimycin A
Inert Ingredients Soy lipids Acetone

DANGER



POISON

KEEP OUT OF REACH OF CHILDREN

Aquabiotics Corp. PO Box 10576 Bainbridge Island, WA

Physical or Chemical Hazards: Extremely Flammable: Keep away from fire, sparks and heated urfaces. I IRST AID IF SWALLOWED: Call

1. IRST AID IF SWALLOWED: Call physician or Poisson Control icenter, Chink 1 or 2 glasses of white and induce vomitting by touching back of timost with finger. If person is unconscious, do not give enything. If Poisson is unconscious, do not induce vomiting. IF INH! _ED: Remove victim to

in INHA EDI Mellove within to tresh var net prelating, give artificial respiration, preferably neutrologimourn, Get medical attention. IF ON SKIM Wash with plenty of scap and water, Get medical attention.

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

DIRECTIONS FOR USE

It is also also of federal law to use this product in a manner communication and the state of the communication and the state of the

AACCEPTED! with COMMENTS? in EPA Letter Dated:

NOV 29 **1999**

Jeder the Federal Insecticide. Fangicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. Not. 39096-2

TAKE TIME



OBSERVE LABEL DIRECTIONS

FINTROL DILUENT

FOR USE WITH

PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals

CAUTION: Harmful if

swallowed, Harmful if inhaled, Harmful if absorbed through skin, Causes moderate eye irritation. Avoid contact with skin and clothing. Do not breathe spray mist. Do not get in eyes, on skin or on clothing. Wear protective goggles. Wear chemical gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco Remove contaminated clothing and wash before reuse.

Physical or Chemical Hazards: Extremely Flammable: Keep away from fire, sparks and heated surfaces First Aid: See Outer Can Label

EPA Reg. No. 39096-2 EPA Est. No. 39096-WA-01

FINTROL®

(Antimycin)

Fish Toxicant Kit

Ingredients. Inert Ingredie: its ' Diethyl Phthalate (surfactant) Nonoxyl-9 (detergent)

Acetone

30.5%

52.8%

CAUTION Keep out of reach of children

DIRECTIONS FOR USE

It is a liolation of federal law to use this product in a manner inconsistent with its tabeling, See "USE DIRECTIONS LEAFLET" for FINTROL (Antimyoin A) Fish Toxicant Kit.

SHORAGE AND DISPOSAL

Do not contaminate vater, food or feed by storage or disposal. SEE OUTER CAN LABEL FOR PROPER STORAGE, PESTICIDE DISPOSAL AND CONTAINER DISPOSAL

> AQUABIOTICS CORP. P.O. Box 10576 Bainbridge Island, WA 98110

TRICTED USE PESTICIDE

d for Highly Specialized Applicator training. For retail ertified Applicators, or persons under their direct uses covered by the Certified Applicators' Certification.

TROL-

NTRATE (ANTIMYCIN A) SH TOXICANT KIT

Concentrate and Fintrol Diluent)

of FINTROL-Concentrate and 1 bottle of

Inert Ingredients (8 fl. Oz.)

v/w Diethyl Phthalate

(surfactant) 30.5% w/w Nonoxyl-9 (detergent) 16.7%

Acetone 10.7%
Acetone 52.8%
100.0% w/w

BOX 10576. Bainbridge Island, WA 98110 96-2 E.P.A. Est. No 39096-WA-01



/w

POISON

t of reach of children

or other Precautionary Statements.

RECTIONS FOR USE

a this product in a manner inconsistent with its labeling. AFLET" for "Fintrol (Antimyoin A) Fish Toxicant Kit"

FINTROL DILUENT PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Harmful if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin and clothing. Do not breath spray mist. Do not get in eyes, on skin or on clothing. Wear protective goggles. Wear chemical gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated containing and wash before reuse.

Physical or Chemical Hazards

EXTREMELY FLAMMABLE: KEEP AWAY FROM FIRE, SPARKS AND HEATED SURFACES.
FIRST AID

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

IF ON SKIN: Wash with plenty of scap 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.

STORAGE AND DISPOSAL

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

Storage: Store only in original containers, in a dry place inaccessible to children and pets. Fintrol Concentrate will thicken if stored at temperatures below 65 F. Before use store overnight above 70 F. Fintrol Concentrate is stable for a minimum of 3 years when stored in unopened original glass bottles.

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: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

Nov 2.9 1999

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ACCEPTED with COMMENTS!

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SPECIAL INSTRUCTIONS

FINTROL® **Fish Toxicant Kit Use Direction Leaflet**

Directions For Use

It is a violation of Federal Law to use

this product in a manner inconsistent

with its labeling.

dication. ollowing nining a lt is trout or een 35° F, only e for 48

Prior to the use of a fish toxicant in either public or private waters, the Director of the State Fish and Game Department or Conservation Department must be contacted to determine whether a permit is required. Such products must be used by or under the technical supervision of personnel of state and federal fish and game agencies, trained in fisheries management, who will provide any special instructions applicable to the particular geographical area.

. . . .

ACCEPTED* with COMMENTS in EPA Letter Dated:

FINTROL-CONCENTRATE is designed for use in running water, streams and shallow waters. This liquid form of FINTROL may be applied to lakes and ponds by boat bailer received the Federal Insecticidenethod or spray equipment. Soray methods equadride, and Rodentidide Arare useful at depths to 1 foot, Boat bailer

os appended, for the posticioand drip tubes, applied at the propeller wash. registered under EPA Rog. Nare used at other depths. Application from an airolane is NOT recommended.

> Each can of Fintrol-Concentrate (Antimycin A) Fish Toxicant Kit Icontaining 240 cc. Fintrol-Concentrate (solution 20%) and 240 cc. Diluenti will, after mixing, make 480 cc., which treats approximately 38 acre-feet of water at 1 p.p.b. (1 part per billion).

> > AQUABIOTICS CORP. P.O. Box 10576 10750 Arrow Point Dr. NE Bainbridge Island, WA 98110

EPA Reg. No. 39096-2 EPA Est. No. 39096-WA-01

Licensed by: Wisconsin Alumni Research Foundation

Trademark licensed by: Averst Laboratories, Inc.

Before applying FINTROL to either public or private waters, contact the Director of the State Fish and Game Department or Conservation Department for State and Federal regulations governing the use of fish toxicants in your area.

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TABLE 1-FOR ROUGH ESTIMATION OF CONCENTRATIONS® OF FINTROL (ANTIMYCIN A) NEEDED FOR COMPLETED ERADICATION OF DIFFERENT FISH SPECIES, UNDER VARIOUS COMBINATION OF WATER TEMPERATURE AND WATER PH

TARGET SPECIES	SENSITIVITY OF TARGET SPECIES TO FINTROL (in p.p.b. of active ingredient)	EFFECTIVE CONCENTRATION OF FINTROL* (in p.p.b. of active ingredient) When pH is 8.5 or less When pH is 8.5 or more			
		water temperature above 60°F.	water temperature below 60°F.	water water temperature above 60°F.	temperature below 60°F
gizzard shed trouts pikes					
carp minnows suckers	5-10	5	7.5	7.5	10
brook stickleback white bass sunfishes	* * * * * * * * * * * * * * * * * * * *			* * • • 3	
perches freshwater drum sculpins	****			3 0	
short nose gar bowfin goldfish catfish	15-25	15	20	20	25 · · · · · · · · · · · · · · · · · · ·

Fish nomenclature according to American Fisheries Society

Note (columns 1 and 2) that the sensitivity of the target opecies determines the concentration range. To eradicate sensitive species it is recommended that the appropriate formulation at FINTROL be applied so that the Ibdy or water will have a concentration of from 5 to 10 p.p.b. of antimycin A, dupending epon variation in pH and water temperature. For more tolerant species, higher concentrations are recommended, Laboratory Studies indicate that less sensitive fish will succumb at concentrations of from 15 to 25 p.p. to d antimycin A, depending upon antipipors in pH and water temperature. Columns 3 to 6 show how to adjust for pH and water temperature. Note that, in general, the lower the pH, the less FINTROL required. The higher the water temperature, the less FINTROL required. The ideal situation for a complete kill would combine a highly sensitive species, low pH and high water temperature.

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For selective kills in ponds managed for sports fishing

The only way to determine the concentration of FINTROL needed for a selective kill is to perform a bioassay. This involves subjecting both the target and nontarget fish to several concentrations of FINTROL to determine the minimum lethal dose. (A description of the bioassay procedure is available upon request.)

HOW TO CALCULATE THE AMOUNT OF FINTROL TO BE ADDED TO A BODY OF WATER TO OBTAIN A GIVEN CONCENTRATION

To calculate the amount of FINTROL to be added to a body of water for eradication of undesired species, the following steps should be taken:

- Determine the volume of water to be treated in acrefeet. This can be arrived at by multiplying the surface area in acres by the average depth in feet.
- Determine the concentration to be used from Table 1.
- Multiply the number of acre-feet by the value given in Table 2, opposite the desired concentration.
- Divide this number by the total kit volume (480 cc. or 16 oz.) to get number of Fish Toxicant Kits needed.

	RAPID ESTIMATION (ENTRATE REQUIRE			
Desired				
Concentration	An	Amount of		
(p,p.b. active	FINTROL-	FINTROL-CONCENTRATE		
Ingredient)	pe	per acre-foot		
	cc*	oz.(approx.)		
1 p.p.b	12.3	1/2		
2 p.p.b.	24.6	3/4		
3 p.p.b.	36.9	11/4		
4 p.p.b.	49.2	11/2		
5 p.p.b.	61.5	2		
6 p.p.b.	73.8	21/2		
7 p.p.b.	86.1	23/4		
8 p.p.b.	98.4	31/4		
9 p.p.b.	110.7	3%		
10 p.p.b.	123.0	4		

Sample calculation:

To treat 75 acre-feet at 3 p.p.b., use:

75 x 36.9 cc = 2,767 cc. of FINTROL-CONCENTRATE / 480

Note: 1 measuring teaspoon = 5 cc.; 1 measuring teblespoon = 15 cc.; 1/2 standard measuring cup = 60 cc.; 1/2 standard measuring cup = 120 cc.; 1 standard meas. cup = 240 cc.

cc. = 5.8 Kits, or

75 x 11/4 fl. oz. = 931/4 fl. oz. of FINTROL-CONCENTRATE / 16 oz = 5.8 kits).

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