

8959-33

8/24/2009

1 of 9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

AUG 24 2009

Marianne Radtke
Applied Biochemists
W175 N11163 Stonewood Drive Suite 234
Germantown, WI 53022-4799

Subject: Aquatrine Algaecide
EPA Registration No.: 8959-33
Application Date: July 17, 2009
Receipt Date: July 27, 2009

Dear Ms. Radtke:

This acknowledges receipt of the notification identified above submitted under the provision section 3 (c) 9 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended and PR Notice 98-10.

Proposed Notification:

Revised Precautionary Statements:

- Update the Medical Emergency contact information
- Update Container Language as per PR Notice 2007-4

General Comment:

A copy of this accepted notification has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, you may contact me by telephone at (703) 308-6427 or by e-mail at carlisle.sharon@epa.gov or Stacey Grigsby by telephone at (703) 305-6440 or by e-mail at grigsby.stacey@epa.gov during the hours of 8:00am to 4:00pm EST. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.

Sincerely,

Sharon Carlisle
(Acting) Product Manager (34)

CONCURRENTLY Regulatory Management Branch II

Antimicrobials Division (7510P)

SYMBOL							
SURNAME							
DATE							

Notification Statements For:

Product: Aquatrine Algaecide

EPA Reg. No. 8959-33

Registrant: Applied Biochemists

Certification Statement for PR Notice 98-10

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.


Certification Statement for PR Notice 2007-4

This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR Sections 156.10, 156.140, 156.144, 156.146 and 156.156. No changes have been made to the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR Sections 156.10, 156.140, 156.144, 156.146 and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Marianne Radtke

Regulatory Affairs Manager

May 17, 2009

Signature: 

Marianne Radtke
Regulatory Affairs Manager

4069

AQUATRINE

ALGAECIDE

Pat. No. 3,930,834 EPA Reg. No. 8959-33 EPA Est. No. 42291-GA-1

**FOR USE IN FISH AND SHRIMP, AQUACULTURE FACILITIES
PONDS - TANKS - RACEWAYS**

ACTIVE INGREDIENTS:

COPPER as elemental*9.00%

INERT INGREDIENTS:.....91.00%

TOTAL..... 100.0%

AQUATRINE ALGAECIDE contains 0.909 lbs. of elemental copper per gallon.
(109 grams of elemental copper per liter)*from mixed Copper-Ethanolamine complexes.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

NOTIFICATION
Date Reviewed: 8/24/09
Reviewed By: *[Signature]*

FIRST AID

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

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.
treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If a medical emergency arises contact Arch Chemicals Emergency Action Network in the US call 1-800-654-6911 or outside the US call 423-780-2970. For help with a spill, leak, fire or exposure involving this material call CHEMTREC 1-800-424-9300.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage

NET CONTENTS : _____ GALLONS (_____ Liters)

MANUFACTURED BY:

ab applied biochemists

GERMANTOWN, WISCONSIN 53022

1-800-558-5106

www.appliedbiochemists.com

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General Information

AQUATRINE ALGAECIDE has been proven effective in the management of potential problem-producing algae populations in both fish and shrimp aquaculture facilities. A broad range of algae species are controlled by AQUATRINE Algaecide, including, but not limited to: Chara, Spirogyra, Cladophora, Microcystis, Leucothrix, Spirulina, Enteromorpha, and Oscillatoria. **AQUATRINE ALGAECIDE** is equally effective in freshwater, saltwater, and brackish water since the mixed ethanolamine complexes proven the reaction of copper with other chemical components in the water. Fish or shrimp may be harvested immediately after treatment.]

DIRECTIONS FOR USE

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

Treatment area formulas, application rates, and use instructions which ensure proper product usage with various systems are provided in the following directions. Follow instructions which best describe your facility.

For effective control, proper chemical concentration must be maintained for a minimum of 3 hours contact time. Static systems (those with minimal or no flow) can be treated using surface spray application methods. Flow-through systems (those where significant dilution or loss of water from unregulated inflow or outflows will not allow for a 3 hours contact period) require metering-in of the AQUATRINE ALGAECID in order to maintain effective contact time.

DETERMINING VOLUME OF WATER TO BE TREATED

Calculate volume of water within the water body or structure to be treated by using the most applicable formula from the charts below:

L= Length D=Average Depth (m) = meters (min) = minute
W= Width V= Velocity (ft) = feet

Static Systems		
Use Site	Formula	Volume/Units
Ponds	$\frac{L(ft) \times W(ft) \times D(ft)}{43560}$	Acre-feet
	$\frac{L(m) \times W(m) \times D(m)}{10,000}$	Hectare-meters
Rectangular Tanks	$L(ft) \times W(ft) \times D(ft) \times 7.5$ $L(m) \times W(m) \times D(m) \times 1000$	Gallons Liters
Circular or Elliptical Tanks	$L(ft) \times W(ft) \times D(ft) \times 5.9$ $L(m) \times W(m) \times D(m) \times 786$	Gallons Liters

Flow Through Systems		
Use Site	Formula	Volume/Units
Raceways & Streams	$W(ft) \times D(ft) \times V^*(ft)/min \times 6.73$	Gallons/minute
	$W(m) \times D(m) \times V^*(m)/min \times 900$	Liters/minute

V* Velocity is the distance traveled by a floating object in 1 minute

6099

APPLICATION RATES FOR PONDS									
ALGAE TYPE	PPM Copper	Gallons per Surface Acre Depth In Feet				Liters per Hectare Depth In Meters			
		1	2	3	4	0.5	0.75	1	1.25
Planktonic	0.2	0.6	1.2	1.8	2.4	9.2	13.8	18.4	23
Filamentous	0.2	0.6	1.2	1.8	2.4	9.2	13.8	18.4	23
Chara/Nitella	0.4	1.2	2.4	3.6	4.8	18.4	27.6	36.8	46

Depending upon the type of application equipment being used, dilute the required amount of **AQUATRINE ALGAECIDE** with sufficient water to ensure even chemical distribution. Break up floating algae mats before spraying or while application is being made. Use hand or power sprayer adjusted to rain-sized droplets. Spray shoreline areas first to avoid trapping fish or shrimp.

- For tanks or raceways connected to water supply systems. Close water supply valve prior to treatment. If this is not possible, refer to instructions for Flow-Through Systems. Aeration devices and water recirculation pumps (if so equipped) should remain in operation during treatment period.
- To facilitate accurate measurement, use a dilute solution of **AQUATRINE ALGAECIDE** to treat small tanks and pools. Prepare a 10% solution of **AQUATRINE ALGAECIDE** by diluting 1 part **AQUATRINE ALGAECIDE** with 9 parts water, by volume. Refer to the chart below to determine the amount of 10% **AQUATRINE ALGAECIDE** solution required to obtain 0.1 to 1.0ppm copper in shrimp culture tanks or 0.2 to 0.4ppm copper in fish culture tanks. Within this concentration range use higher rates for heavy infestations; lower rates for light infestations.

Application Rates

A. Tank Applications

Application Rates for Small Volume Tanks and Ponds								
		Ounces of 10% AQUATRINE Algaecide			Milliliters of 10% AQUATRINE Algaecide			
		Tank Capacity (Gallons)			Tank Capacity (Liters)			
Shrimp Tanks	Fish Tanks	ppm Copper	1000	20,000	50,000	5,000	75,000	200,000
		0.1	1.2	24	60	46	690	1840
		0.2	2.4	48	120	92	1380	3680
		0.3	3.6	72	180	138	2070	5520
		0.4	4.8	96	240	184	2760	7360
		0.5	6.0	120	300	230	3450	9200
		0.6	7.2	144	360	276	4140	11040
		0.7	8.4	168	420	322	4830	12880
		0.8	9.6	192	480	368	5520	14720
		0.9	10.8	216	540	414	6210	16560
		1.0	12.0	240	600	460	6900	18400

- If necessary, further dilute the 10% **AQUATRINE ALGAECIDE** solution with water to ensure even distribution across the water surface. Use a portable sprayer, sprinkling device, or incorporate solution at the intake of the recirculation pump.
- For systems equipped with the flow shut-off valve, normal delivery of water may be resumed between 12 to 24 hours following application.

7089

B. Flow-Through Systems

- Facilities where water flow into tanks or raceways cannot be shut off, require treatment with a chemical drip system or metering device. Accurate measurement of water flow rate is necessary for proper calibration of these units.
- Prepare a 10% solution of **AQUATRINE ALGAECIDE** by diluting 1 part **AQUATRINE ALGAECIDE** with 9 parts water, by volume. Refer to the chart below to determine the amount of 10% **AQUATRINE ALGAECIDE** required per minute to maintain 0.1 to 0.5ppm copper in shrimp culture raceways or 0.2 to 0.4ppm copper in fish culture raceways. Within the range provided, use high concentrations and longer duration for heavy infestations, lower concentrations and shorter duration for light infestations.

Calibration of Drip or Metering Systems for Flow-Through Systems								
		OZ. 10% AQUATRINE Algaecide/Min			ML of 10% AQUATRINE Algaecide/Min			
		Water Flow Rate Gal/Min			Water Flow Rate Liters/Min			
ppm Copper		50	250	500	200	1000	2000	
SHRIMP	FISH	0.1	0.06	0.3	0.6	1.8	9	18
		0.2	0.12	0.6	1.2	3.6	18	36
		0.3	0.18	0.9	1.8	5.4	27	54
		0.4	0.24	1.2	2.4	7.2	36	72
		0.5	0.3	1.5	3.0	9.0	45	90

Treatment should be maintained for a 12 to 24 hour period to allow for a minimum of 3 hours contact time at the desired copper concentration throughout the entire system. That is, maintain drip for 3 hours longer than the water turnover time within the system. The final 3 hours of treatment should occur during daylight hours. Place a sufficient amount of the 10% **AQUATRINE ALGAECIDE** solution in the drip system or meter tank reservoir to sustain application for the entire treatment period.

OTHER TREATMENT FACTORS AND CONSIDERATIONS GENERAL TREATMENT NOTES

The following suggestions apply to the use of **AQUATRINE ALGAECIDE** in all approved use sites: For optimum effectiveness:

- Apply under calm, sunny conditions when water temperatures are at least 60°F.
- Treat when and where growth first begins to appear or create a nuisance.
- Apply in a manner that will ensure even distribution of the chemical within the treatment area.
- Re-treat areas if re-growth begins to appear and seasonal control is desired. Allow one to two weeks between consecutive treatments.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

CORROSIVE. Causes skin burns and irreversible eye damage. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Do not get on skin, in eyes, or on clothing. Wear rubber gloves, and goggles or face shield when handling this **AQUATRINE ALGAECIDE**. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing before reuse.

8069

ENVIRONMENTAL HAZARD:

This product may be toxic to trout and other aquatic organisms in soft water. Fish toxicity is dependent upon the hardness of water. Do not use in water containing trout if the carbonate hardness of water does not exceed 50 ppm. Do not use in waters containing Koi and hybrid goldfish.

Fish and Shrimp Cautions

- Where algae growth is excessive, decomposition following treatment could deplete dissolved oxygen concentrations resulting in loss of fish or shrimp. To prevent this occurrence, follow one or more of the prescribed procedures below, depending upon your facility.
 - A.) Treat 1/3 to 1/2 of the water area at a time allowing 1 to 2 weeks between consecutive treatments.
 - B.) Maintain operation of mechanical aerators and recirculators during post-treatment period until visible decomposition of the algae has occurred.
 - C.) Resume water flow in controllable flow-through systems 12 to 24 hours following chemical application.
- This product should not be applied in systems where biofilters are utilized for water purification as this may inhibit microbial activity.

STORAGE & DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Keep container closed when not in use. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not reuse or refill container. Do not contaminate feed, feedstuffs, or drinking water. Do not store or transport near feed or food.

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.

(For <5gallon non-refillable containers only):

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

(For >5gallon non-refillable containers only):

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 with water and recap. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

Warranty

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label.

To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions.