
 U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Antimicrobials Division (7510C) 1200 Pennsylvania Avenue NW Washington, D.C. 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)	EPA Reg. Number: 83742-1	Date of Issuance: January 17, 2007
	Term of Issuance: Unconditional	
	Name of Pesticide Product: Algae Defense	

Name and Address of Registrant (include ZIP Code): The Pond Guy, Inc. 6135 King Road Marine City, MI 48039	
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.	
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This product is unconditionally registered in accordance with FIFRA sec 3(c)(5) provided that you: Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4. 1. Make the labeling changes listed below before you release the product for shipment: a. Revise the "EPA Registration Number to read, "EPA Reg. No. 83742-1".	
Signature of Approving Official:  Adam Heyward Product Manager Team-34 Regulatory Management Branch II Antimicrobials Division (7510C)	Date: January 17, 2007

2. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

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



Adam Heyward
Product Manager 34
Regulatory Branch II
Antimicrobials Division (7510C)

Enclosure: (Stamped Labeling)

ALGAE DEFENSE™

AQUATIC ALGAECIDE

For use in Fresh Water Lakes, Potable Water Reservoirs, Ponds (including Golf Course Ponds), Fish Hatcheries, Irrigation Ditches, and Other Such Slow Moving or Quiescent Bodies of Water

Water treated with Algae Defense may be used immediately for recreational activities, for drinking, for watering livestock, and for irrigation of crops, golf courses, ornamental plantings, and turf areas.

ACTIVE INGREDIENT

*Copper as elemental..... 8%

INERT INGREDIENTS..... 92%

TOTAL 100%

(*Derived from Copper-Triethanolamine Complex and Copper Hydroxide) – Contains 0.8 Pounds of Elemental Copper Per Gallon

KEEP OUT OF REACH OF CHILDREN

WARNING – AVISO

See Additional Precautions on Side and Back Panels

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

The Pond Guy, Inc.
Marine City, MI 48039
www.thepondguy.com • 1-888-766-3520

EPA Reg. No. 83742-____
EPA Est. No. _____

Net Contents: _____

ACCEPTED
with COMMENTS
EPA Letter Dated:

JAN 17 2007

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 83742-1

FIRST AID	
IF INHALED	<ul style="list-style-type: none">• 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.
IF SWALLOWED	<ul style="list-style-type: none">• 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 IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 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	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-8XX-XXX-XXXX.	
See Back Panel for Additional Precautions and Directions for Use	

DIRECTIONS FOR USE

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

For effective control, proper chemical concentration should be maintained for a minimum of three hours contact time. The application chart is based on static or minimal flow rates in the chart are based on static or minimal flow situations. Where significant dilution or loss of water from unregulated inflows or outflows occur (raceways) within a three hour period, chemical may have to be metered in.

1st Identify the algae growth present as one of the following types: Planktonic (suspended), Filamentous (mat forming), or Chara/Nitella.

2nd Determine the surface acreage and average depth of treatment area. (1 acre = 43,560 sq. ft.) Length x Width / 43,560 = Surface Acres

Refer to the chart below to determine gallons of Algae Defense to apply per surface acre. Control of free floating genera is obtained at rates equivalent to 0.2 to 0.5 ppm metallic copper. Control of mat forming genera requires rates equivalent to 0.5 to 1.0 ppm metallic copper. Hard to control genera such as *Chara* and *Phormidium* require a rate of 0.5 to 1.0 ppm metallic copper to be applied at the first signs of algae growth. The lower ends of the recommended ranges can be used in soft water and low growth situations. Higher rates within the recommended ranges should be used in situations of hard water or high algae growth.

Algae Defense can be applied directly, but a 10 to 20 fold dilution of Algae Defense with water facilitates uniform application. Large mats of floating algae should be removed prior to treatment, and a second application 1 to 2 weeks following the initial treatment may be required in areas of dense algae growth.

Permits:

Always consult your State Fish and Game Agency or other responsible agency before applying this product to public waters.

Weather Conditions:

Best results are obtained when Algae Defense is applied at the first appearance of algae and when water temperatures are above 60°F. Apply under calm conditions in a manner that uniformly distributes Algae Defense throughout the treated area.

Application Rates Gallons Per Surface Acre					
Algae Type	PPM copper	Depth in Feet			
		1	2	3	4
Planktonic	0.2-0.5	0.7 - 1.7	1.4 - 3.4	2.0 - 5.1	2.7 - 6.8
Filamentous	0.5-1.0	1.7 - 3.4	3.4 - 6.8	5.1 - 10.2	6.8 - 13.6
Chara/Nitella	0.5-1.0	1.7 - 3.4	3.4 - 6.8	5.1 - 10.2	6.8 - 13.6

STRATIFIED LAKES (Summer Application) – Lakes known to be stratified require treatment of the upper 6 feet of water only.

NON-STRATIFIED LAKES (Spring/Fall Application) – Non-stratified lakes require treatments based on the total water depth. To avoid adverse effects on fish population, treat no more than ½ of the water body at a time.

METHODS OF APPLICATION

SURFACE APPLICATION: Surface applications are appropriate for shallow depths of 4 feet or less. Use a diluted spray mixture and apply evenly across the surface of the water from a boat or from shore.

SUBSURFACE APPLICATION: Subsurface applications of Algae Defense are recommended for water depths exceeding 4 feet. Weighted trailing hoses should be set to deliver the recommended rate of Algae Defense to zones containing dense algae populations. Subsurface application can be used for direct or invert applications of Algae Defense. Avoid dragging the hoses on the bottom.

POLYMER APPLICATION: Spray sinking, deposition, and retention may be improved by addition of a polymer to Algae

Defense itself or to a dilution of Algae Defense in water. Follow the recommendations on the polymer product label governing the use of that product in algae control.

Tank Mixes:

Algae Defense can be applied alone or in combination with aquatic herbicides (see below) in an invert emulsion. Inverts are not suited for surface application and should only be applied subsurface through submerged, weighted trailing hoses. Do not drag hoses on the bottom.

The severity of algae infestation will dictate the distance that Algae Defense will extend from the application point. Any subsequent applications should be made at points 3 hours downstream from the prior point of application. This step can be repeated as necessary until the entire infested area has been treated. Season long control may require periodic retreatment.

HYDRILLA VERTICILLATA CONTROL

Unless specifically prohibited by the mix partner label, Algae Defense may be tank mixed with Weed Defense™, or with aquatic herbicide products containing diquat as the active ingredient. In these mixtures Algae Defense kills algae covering *Hydrilla* and thereby interfering with herbicide absorption. If a product is tank mixed with Algae Defense, the more stringent requirements of the Algae Defense and mix partner labels must be met. Table 4 gives example directions for tank mixes of Algae Defense with diquat based products. The complete effect of these treatments will take 8-12 weeks to develop. In cases of dense weed growth, a second application may be necessary after 12 weeks.

Table 4. Example Tank Mixes of Algae Defense Algaecide

Mix Partner	Amount of Mix Partner	Amount of Algae Defense	Amount of Water	Additive	Rate	Application Method
1. Diquat	1-2 gal. ³	1.7 - 3.4 gal. ⁴	100 gal.	Invert emulsion carrier ⁵	Per A-foot	Surface Spray or subsurface injection, or bottom placement ⁶
2. Weed Defense	3.34 gal.	1.7 - 3.4 gal. ⁵	10-20 gal.		Per A-foot	Surface spray or subsurface injection ⁷

¹Make applications in bright sunlight when water is above 60°F.

²In heavily infested areas, a second application after 12 weeks may be necessary.

³See the diquat product label for actual diquat application rate

⁴Use the low rate of Algae Defense for light infestations of easy-to-control algae species in soft water. The high rate of Algae Defense is indicated when any of the following conditions exist: heavy algae infestations, difficult-to-control species, or hard water.

⁵An invert emulsion carrier is indicated in slowly moving, or muddy water

⁶Bottom placement is recommended where *Hydrilla* growth has reached the surface

⁷Choose an application method which provides uniform coverage of the treated area and delivers the spray solution to the plant surface.

Surface Application: Apply using a hand held low pressure nozzle, or other method of application which provides uniform coverage of the treated area.

Subsurface Application: Use Delavan or Spraying System 80-degree nozzle tips fitted with 06 orifices on boom mounted trailing hoses 18 to 24 inches long. Such hoses will release the spray mixture 3 to 6 inches below the water surface. Booms can be mounted on the boat's bow or stern. Make applications in swaths no more than 20 feet apart.

Bottom Placement: Using weighted, trailing hoses and water as the carrier, inject the diluted Algae Defense plus diquat mixture 1 to 2 feet above the bottom.

FISH NOTE

Algae Defense may be toxic to trout and other species of fish. The risk of fish toxicity generally decreases as the hardness of the water increases.

IRRIGATION WITH TREATED WATER

Water treated with Algae Defense in accordance with label directions may be used for irrigation immediately after treatment.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

May be fatal if inhaled. Causes eye irritation. Harmful if swallowed or absorbed through the skin. Do not breathe vapor or spray mist. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Applicators must wear: A NIOSH approved respirator with any N, R, P or HE filter and waterproof gloves. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product may be toxic to fish. Some species of fish may be killed at application rates on this label—trout and channel catfish are especially sensitive. Immature fish are more susceptible to injury than mature. Generally, fish toxicity is reduced as water hardness increases. Consult State Fish and Game Agency or other responsible agency before applying this product to public waters.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place.

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 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.

GENERAL INFORMATION

Algae Defense may be applied to fresh water lakes, potable water reservoirs, ponds (including golf course ponds), fish hatcheries, irrigation canals, laterals, and ditches and other such slow moving or quiescent bodies of water. Algae Defense successfully controls diverse algal types including branched, filamentous, and planktonic species. To obtain optimal control, apply Algae Defense in accordance with label directions at the first appearance of algae bloom. Water treated with Algae Defense may be used immediately to irrigate crops, golf courses, ornamental plants, and turf areas.

Surface applications of Algae Defense may be made using a land-based sprayer, or spray boat. Weighted trailing hoses are recommended for subsurface applications. Where appropriate, Algae Defense can be applied as an invert emulsion, or as an admixture with a suitable polymer, (see specific instructions, and select only adjuvants approved for application in food crop production).

Decomposition of dead plant material can result in dissolved oxygen depletion and subsequent fish kill. High water temperatures and dense weed infestation are exacerbating factors. To avoid excessive oxygen depletion and fish kill, treat no more than $\frac{1}{2}$ of the water body at one time. Do not apply more Algae Defense than required for the treatment area, and allow 10 to 14 days before making application to the remaining portion of the water body. Avoid trapping fish between the shoreline and treatment areas by treating from the shore outward toward deeper, untreated water.

Algae in the water column or on the weed surfaces can reduce the effectiveness of aquatic herbicides against *Hydrilla verticillata* and other vascular weeds. Unless specifically prohibited by the mix partner label, Algae Defense may be tank mixed with products containing the active ingredients, copper, fluridone, diquat and endothall, to improve aquatic weed control. If a product is tank mixed with Algae Defense, the more stringent requirements of the Algae Defense and mix partner labels must be met.

NOTE: Algae Defense and solutions of Algae Defense with cupric ion concentrations in excess of 1.0 ppm may cause non target plant injury. Do not allow sprays to drift over crops, ornamentals, grass or other desirable plants. Observe all label restrictions.

WARRANTY STATEMENT

THE POND GUY warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of THE POND GUY. In no case shall THE POND GUY be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at THE POND GUY'S election, the replacement of this product. THE POND GUY MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

Algae Defense™ is a trademark of The Pond Guy, Inc.
Weed Defense™ is a trademark of The Pond Guy, Inc.