


81927-45

10/25/2010

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 <p align="center"><b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  <b>Office of Pesticide Programs</b>  <b>Registration Division (7505P)</b>  <b>Ariel Rios Building</b>  <b>1200 Pennsylvania Ave., NW</b>  <b>Washington, D.C. 20460</b></p> <p>NOTICE OF PESTICIDE:  <input checked="" type="checkbox"/> Registration  <input type="checkbox"/> Reregistration          (under FIFRA, as amended)</p>	EPA Reg. Number: <b>81927-45</b>	Date of Issuance: <b>OCT 25 2010</b>
	Term of Issuance: <b>unconditional</b>	
	Name of Pesticide Product: <b>Alligare Fluridone</b>	

Name and Address of Registrant (include ZIP Code):

**Alligare, LLC**  
**13 N. 8<sup>th</sup> Street**  
**Opelika, AL 36801**

~~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 registered in accordance with FIFRA provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revisions:
  - a. Revise "EPA REG. NO. 81927-" to "EPA REG. NO. 81927-45"
  - b. Add appropriate Net Contents information as well as the EPA Est. No. to the label.

Submit one (1) copy of the revised final printed label for the record.

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.

Enclosure

Signature of Approving Official: Kathryn V. Montague Project Manager 23 Herbicide Branch Registration Division (7505P)		Date: <b>OCT 25 2010</b>
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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION / PRECAUCION**

Harmful if swallowed, absorbed through skin, or if inhaled. Causes moderate eye irritation. Avoid breathing of spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

Follow use directions carefully so as to minimize adverse effects on nontarget organisms. Do not contaminate water when disposing of equipment washwaters. Trees, turf, and shrubs growing in water treated with Alligare Fluridone may occasionally develop chlorosis. Do not apply in tidewater/brackish water. Lowest rates should be used in shallow areas where the water depth is considerably less than the average depth of the entire treatment site, for example, shallow shoreline areas.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

**Shake well before using.**

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container only. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

**PESTICIDE DISPOSAL:** Wastes resulting from use of this product must be used according to label directions or disposed of at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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 if available 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.

**PRODUCT INFORMATION**

Alligare Fluridone is a selective translocated aquatic herbicide. Applied to freshwater ponds, lakes, reservoirs, drainage canals and irrigation canals, Alligare Fluridone helps manage undesirable aquatic weeds. Susceptible aquatic vascular plants absorb the product through the shoots and roots. For effective control, contact of this product with the target plants must be maintained for at least 45 days. Effective control is reduced if conditions exist that dilute the concentration of this product in the water.

The mode of action of Alligare Fluridone involves inhibition of carotene synthesis in the target weeds. Lack of carotene in plants causes the chlorophyll to break down when the plants are exposed to sunlight. New shoot growth on target weeds begins to turn chlorotic (white) or pink in color within 7 to 10 days of exposure to Alligare Fluridone. Ideally, 30 to 90 days of continuous exposure to this product will provide optimum control of target weeds. Some plant species may not be controlled by this product under all conditions. Factors affecting herbicide performance include growth stage of the target weed, the time of year when Alligare Fluridone is applied, and dilution or movement of treated water.

Optimum results are achieved when this product is applied before weeds begin to actively grow.

2



Application Sites <sup>a</sup>	Number of Days to Wait after Alligare Fluridone Application Before Irrigating with Alligare Fluridone-treated Water		
	Established Tree Crops	Established Row Crops/Turf/Plants	Newly Seeded Crops/Seedbed or Areas To be Planted Including Overseeded Golf Course Greens
Ponds and Static Canals	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs	7	14	Assay required

<sup>a</sup>**Ponds:** For Alligare Fluridone labeling purposes, a pond is defined as a body of water 10 acres or less in size  
**Lakes or Reservoirs:** For Alligare Fluridone labeling purposes, a lake or reservoir is defined as greater than 10 acres in size. When only one-half or more of the lake or reservoir is treated, follow the Pond and Static Canal precautions.

**AQUATIC PLANT INFORMATION**

Depending on the use rate, water movement, application timing, weed growth stage and application method, this product will control, partially control, or will not control certain aquatic plant species. The table below categorizes the species when this product is applied under ideal application conditions at higher to maximum label rates. When lower rates are used, certain species in the controlled or partially controlled categories will show increased tolerance to this product. Aquatic plants not listed may also be controlled, partially controlled, or be tolerant to Alligare Fluridone.

Before applying this product, identify the aquatic plants to determine their susceptibility to Alligare Fluridone.

**Vascular Aquatic Plants Controlled by Alligare Fluridone**

Floating Plants	Emerged Plants	Submersed Plants	Shoreline Grasses
common duckweed ( <i>Lemna minor</i> )	spatterdock ( <i>Nuphar luteum</i> )	bladderwort ( <i>Utricularia spp.</i> )	paragrass ( <i>Urochloa mutica</i> )
	water-lily ( <i>Nymphaea spp.</i> )	common coontail ( <i>Ceratophyllum demersum</i> )	
		common elodea ( <i>Elodea canadensis</i> )	
		egeria, Brazilian elodea ( <i>Egeria densa</i> )	
		fanwort, cabomba ( <i>Cabomba caroliniana</i> )	
		hydrilla ( <i>Hydrilla verticillata</i> )	
		naiad ( <i>Najas spp.</i> )	
		pondweed ( <i>Potamogeton spp.</i> , except Illinois pondweed)	
		watermilfoil ( <i>Myriophyllum spp.</i> , except variable-leaf milfoil)	

**Vascular Aquatic Plants Partially Controlled by Alligare Fluridone**

<b>Floating Plants</b>	<b>Emersed Plants</b>	<b>Submersed Plants</b>	<b>Shoreline Grasses</b>
common watermeal ( <i>Wolffia columbiana</i> ) <sup>†</sup>	alligatorweed ( <i>Alternanthera philoxeroides</i> )	Illinois pondweed ( <i>Potamogeton illinoensis</i> )	barnyardgrass ( <i>Echinochloa crusgalli</i> )
	American lotus ( <i>Nelumbo lutea</i> )	limnophila ( <i>Limnophila sessiliflora</i> )	giant cutgrass ( <i>Zizaniopsis miliacea</i> )
	cattail ( <i>Typha spp.</i> )	tapegrass,	reed canarygrass ( <i>Philaris arundinaceae</i> )
	creeping waterprimrose ( <i>Ludwigia peploides</i> )	American eelgrass ( <i>Vallisneria americana</i> )	southern watergrass ( <i>Hydrochloa caroliniensis</i> )
	parrotfeather ( <i>Myriophyllum aquaticum</i> )	watermilfoil-variable-leaf milfoil ( <i>Myriophyllum heterophyllum</i> )	torpedograss ( <i>Panicum repens</i> )
	smartweed ( <i>Polygonum spp.</i> )		
	spikerush ( <i>Eleocharis spp.</i> )		
	waterpurslane ( <i>Ludwigia palustris</i> )		
	watershield ( <i>Brasenia schreberi</i> )		

<sup>†</sup> Alligare Fluridone when used at the maximum use rate only provides partial control of this species.

**Vascular Aquatic Plants Not Controlled by Alligare Fluridone<sup>\*</sup>**

<b>Floating Plants</b>	<b>Emersed Plants</b>	<b>Submersed Plants</b>	<b>Shoreline Grasses</b>
waterlettuce ( <i>Pistia stratiotes</i> )	American frogbit ( <i>Limnobium spongia</i> )		maidencane ( <i>Panicum hemitomom</i> )
	arrowhead ( <i>Sagittaria spp.</i> )		
	bacopa ( <i>Bacopa spp.</i> )		
	big floatingheart,		
	banana lily ( <i>Nymphoides aquatica</i> )		
	bulrush ( <i>Scirpus spp.</i> )		
	floating waterhyacinth ( <i>Eichhornia crassipes</i> )		
	pickerelweed, lanceleaf ( <i>Pontederia spp.</i> )		
	rush ( <i>Juncus spp.</i> )		
	water pennywort ( <i>Hydrocotyle umbellata</i> )		

\*Note: Alligare Fluridone does not control algae (*Chara*, *Nitella*, and single-cellular, colonial and filamentous species).

**PREPARATION OF ALLIGARE FLURIDONE SPRAY SOLUTIONS**

Determine the amount of area (acres) to be treated. Water depths in the treatment sites should also be known so that the correct application rate is selected.

Use the steps below to prepare spray mixtures of this product:

1. Be sure to shake well the containers of this product before adding to the spray tank during mixing and loading operations.
2. Add 1/2 to 3/4 the required amount of water to the spray tank. Begin agitation of the spray mixture and continue agitation during the mixing operations.
3. Add the required amount of this product to the spray tank during the remainder of the mixing operation.
4. Continue agitation of the spray mixture during the herbicide application operation.

Make surface or subsurface applications using conventional spray equipment. Use weighted trailing hoses to apply this product near the surface of the hydrosol. Make applications with a spray volume of 5 to 100 gallons per acre. A metering system which mixes concentrated Alligare Fluridone with water and then introduces this slurry into the suction side of the application equipment may also be used.

Note: This product is not corrosive to application equipment.

**Tank Mix Information**

Tank mixes of this product with other aquatic herbicides and algaecides may provide greater efficacy and broader weed control or plant selectivity. Refer to the label for the herbicide or algaecide used as a tank mix with Alligare Fluridone for use directions, precautions, and restrictions.

**DIRECTIONS FOR APPLICATION - PONDS**

For additional application rate calculations, refer to the section How To Calculate Application Rates at the end of this label.

Average Water Depth of Treatment Site in Feet	Fluid Ounces (or Qts.) of Alligare Fluridone per Treated Acre To Achieve Desired Herbicide Concentration:		Application Directions
	45 ppb	90 ppb	
1	3.8 fl. oz. (0.12 qts.)	7.7 fl. oz. (0.24 qts.)	<p>Apply Alligare Fluridone to the entire surface area of the pond.</p> <p><b>Single Applications:</b> Use the amount of this product listed to give 45 to 90 ppb fluridone in treated water. Higher rates should be used for dense weed infestations, for difficult-to-control species, and for smaller ponds (less than 5 acres in size and average water depths of less than 4 feet).</p> <p><b>Split or Multiple applications:</b> Use when dilution of the treated water is likely to occur.</p>
2	7.7 (0.24)	15.7 (0.49)	
3	11.8 (0.37)	23.4 (0.73)	
4	15.7 (0.49)	31.4 (0.98)	
5	19.5 (0.61)	39.0 (1.22)	

Average Water Depth of Treatment Site in Feet	Fluid Ounces (or Qts.) of Alligare Fluridone per Treated Acre To Achieve Desired Herbicide Concentration:		Application Directions
	45 ppb	90 ppb	
6	23.4 (0.73)	46.7 (1.46)	Do not exceed 90 ppb per annual growth cycle.
7	27.2 (0.85)	54.4 (1.70)	
8	31.4 (0.98)	62.4 (1.95)	
9	35.2 (1.1)	70.1 (2.19)	
10	39.0	78.1	
	(1.22)	(2.44)	

**DIRECTIONS FOR APPLICATION – LAKES AND RESERVOIRS**

This product may be used for treatment of both whole lakes and reservoirs and partial areas of lakes or reservoirs (bays and coves). Target weeds in partial lake and reservoir treatments which are at least 5 acres in size are more effectively treated with this product than smaller size areas. Smaller treatment areas (less than 5 acres) or narrow strips such as boat trails or shorelines may not produce satisfactory results as Alligare Fluridone may be diluted with untreated water. Due to a number of environmental factors, rate ranges are provided. Select the rates and application methods based on the specific goals of the aquatic plant management program at each different site.

**Whole Lake or Reservoir Treatments (Limited or No Water Discharge)**

**Single Application to Whole Lakes or Reservoirs:** Apply this product at an application rate of between 10 and 90 ppb. Consult the table below for the amount of this product required to achieve these concentrations in the treated water. Rates should be based on the goals of the aquatic plant management program.

If control of **Eurasian watermilfoil and curlyleaf pondweed** is desired or for greater plant selectivity, use an application rate lower in the range. For other plant species, contact an aquatic specialist to help determine when to choose lower application rate.

The higher rates within the rate range can be used when dense weed infestations are present or when treating hard-to-control weed species. Additional applications may be required to control more difficult-to-control species or when dilution of the treatment concentration has occurred such as from a heavy rainfall. If multiple applications are made, do not exceed 150 ppb (the sum of all applications) per annual growth cycle. Read the directions below on Split or Multiple Applications. For additional application rate calculations, refer to the section How To Calculate Application Rates at the end of this label.



**Rates For Single Application of Alligare Fluridone**

Average Water Depth at Treatment Site in Feet	Fluid Ounces (or Qts.) of Alligare Fluridone per Treated Acre To Achieve Desired Herbicide Concentration:	
	10 ppb	90 ppb
1	1.0 fl. oz. (0.03 qts.)	7.7 fl. oz. (0.24 qts.)
2	106 (0.05)	15.7 (0.49)
3	2.6 (0.08)	23.4 (0.73)
4	3.2 (0.11)	31.4 (0.98)
5	4.5 (0.14)	39.0 (1.22)
6	5.1 (0.16)	46.7 (1.46)
7	6.1 (0.19)	54.4 (1.70)
8	7.0 (0.22)	62.4 (1.95)
9	7.6 (0.24)	70.1 (2.19)
10	8.6 (0.27)	78.1 (2.44)
11	9.6 (0.30)	86.0 (2.68)
12	10.2 (0.32)	93.8 (2.93)
13	11.2 (0.35)	101.4 (3.17)
14	12.1 (0.38)	109.4 (3.42)
15	13.1 (0.41)	117.1 (3.66)
16	13.8 (0.43)	124.8 (3.90)
17	14.7 (0.46)	132.2 (4.15)
18	15.7 (0.49)	140.5 (4.39)
19	16.3 (0.51)	148.2 (4.63)
20	17.3 (0.54)	156.2 (4.88)

**Split or Multiple Applications to Whole Lakes or Reservoirs:** If the goal of the aquatic plant management program is to use the lowest effective rate and to maintain a low herbicide concentration for sufficient time to ensure efficacy and enhanced selectivity, split or multiple application programs are appropriate. However, water analyses using ELISA (or other analyses) must be carried out to ensure that the water is treated at an initial application rate of 6 to 50 ppb. Continue split applications to maintain a sufficient concentration of fluridone for a minimum of 45 days or longer. As with single applications, to **control Eurasian watermilfoil and curlyleaf pondweed and to provide greater plant selectivity, use**

**an application rate lower in the rate range.** For other weed species, contact an aquatic specialist to help determine when to choose lower application rate.

A single application at no more than 20 ppb may be made to lakes or reservoirs containing functional potable water intakes within ¼ mile of these functioning potable water intakes. Do not apply more than 150 ppb (sum of all applications) per annual growth cycle.

**Partial Lake or Reservoir Treatments**

If the chance of dilution of Alligare Fluridone with untreated water is expected in partial lake or reservoir treatments, using split or multiple applications may extend the herbicide contact time with the target weeds. Use higher application rates and more frequent applications if the likelihood of untreated water diluting the Alligare Fluridone concentration in the treatment area is anticipated.

Refer to the table below for additional application instructions and for use rates. For additional application rate calculations, refer to the section How To Calculate Application Rates at the end of this label.

Partial Lake or Reservoir Treatment Site	Rates and Instructions
Treatment Areas Greater Than 1/4 Mile from a Functioning Potable Water Intake	<p><b>Single applications:</b> apply this product at 30 to 150 ppb.</p> <p><b>Split or multiple applications:</b> Do not exceed 150 ppb (total of all applications) per annual growth cycle. If split applications are made, maintain a sufficient concentration in the target area for a period of 45 days or longer. Use the ELISA or other analyses to ensure that the desired concentration of fluridone is maintained over time.</p>
Treatment Areas Within 1/4 Mile of a Functioning Potable Water Intake	<p>One may apply a concentration of greater than 20 ppb if the application is made at least ¼ mile or more from the functioning potable water intake.</p> <p>Application rates of less than 20 ppb may be made with ¼ mile of the potable water intake but use ELISA or other methods to verify that the fluridone concentration do not exceed 150 ppb at the potable water intake.</p>

**DIRECTIONS FOR APPLICATION – DRAINAGE CANALS AND IRRIGATION CANALS**

For additional application rate calculations, refer to the section How To Calculate Application Rates at the end of this label.

Application Site	Rates and Instructions
Static Canals	1 – 2 quarts per treated acre
Moving Water Canals	<p>Optimum performance will be achieved when water flow is restricted or reduced.</p> <p>For slowly moving bodies of water, apply using techniques that maintain the fluridone concentration at 15-40 ppb for at least 45 days. Use split or multiple broadcast applications (or metering methods) to ensure a uniform concentration of fluridone. Use the ELISA or other analyses to ensure that the desired concentration of fluridone is maintained over time.</p>

<p>Static or Moving Water Canals Containing a Functioning Potable Water Intake</p>	<p>One may apply a concentration of greater than 20 ppb Alligare Fluridone at least ¼ mile or greater from the functioning potable water intake. Application rates of less than 20 ppb may be made with ¼ mile of the potable water intake but use ELISA or other methods to verify that the fluridone concentration do not exceed 150 ppb at the potable water intake.</p>
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**HOW TO CALCULATE APPLICATION RATES**

**Ponds, Lakes and Reservoirs:** Use the calculation below to determine the amount in fluid ounces of this product to be applied per acre to provide the desired ppb concentration of fluridone in the treated water:

Fluid Ounces of Alligare Fluridone required per treated acre =  
 (Average water depth of treatment site in feet) x (desired ppb concentration of fluridone)  
 x 0.0027 x 32

As an example, the calculation to determine the number of fluid ounces of this product needed to treat one acre for a herbicide concentration of 45 ppb fluridone at a site where the average water depth is 3 feet is shown as follows:

$$3 \times 45 \times 0.0027 \times 32 = 11.7 \text{ fl. oz. per treated acre}$$

Note: Fluid ounces can be converted to quarts by dividing the number of fluid ounces by 32. For example, 11.7 fl. oz. ÷ 32 = 0.37 quarts.

Make sure that the calculated rate does not exceed the maximum allowable rate in pints (or quarts) per treated acre for the water depth listed in the application rate tables for the sites to be treated.

**Moving Water Drainage and Irrigation Canals:** Calculate the amount of this product in quarts required for the proposed application through a metering system to provide the desired ppb concentration of fluridone in the treated water as follows:

1. Determine the Cubic Feet per Second as follows:  
 $CFS \text{ (cubic feet per second)} = \text{Average flow rate (feet per second)} \times \text{average canal width (ft.)} \times \text{average canal depth (ft.)} \times 0.9$
2. Calculate the Water Movement in Acre-Feet per Day:  
 $\text{Water movement in acre-feet per day} = CFS \times 1.98$
3. Amount of Alligare Fluridone required:  
 $\text{Acre-feet per day} \times \text{desired ppb} \times 0.0027 = \text{Quarts of Alligare Fluridone required per day}$

**CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

**Warranty:** Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. To the extent consistent with applicable law, no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

**Terms of Sale:** The Company's directions for use of this product must be followed carefully. 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, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

**Limitation of Liability:** To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

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Alligare Fluridone is not manufactured or distributed by SePRO Corp., the manufacturer and seller of Sonar® A.S. and Avast!® SC.

[EPA approval date]