



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

December 9, 2015

Alligare, LLC  
c/o Michael Kellog, Agent  
Pyxis Regulatory Consulting, Inc  
4110 136th St, NW  
Gig Harbor, WA 98332

Subject: Notification per PRN 98-10 – Typographical Corrections and California Restrictions  
Product Name: Alligare Fluridone  
EPA Registration Number: 81927-45  
Application Date: 12/1/15  
Decision Number: 511617

Dear Mr. Kellog

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Dominic Schuler at 703-347-0260 or via email at [schuler.dominic@epa.gov](mailto:schuler.dominic@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Kathryn V. Montague".

Kathryn Montague, Product Manager 23  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

**NOTIFICATION**

81927-45

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

12/09/2015

*Note to reviewer: Text in [brackets] indicates optional text.*

**Alligare Fluridone**  
*[Alternate Brand Name: Poseidon]*

An herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, potable water sources, drainage canals and irrigation canals.

**ACTIVE INGREDIENT:**

Fluridone: 1-methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4(1*H*)-pyridinone..... 41.7%

**OTHER INGREDIENTS:**..... 58.3%

**TOTAL:** ..... 100.0%

Contains 4 pounds active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION / PRECAUCION**

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

<b>FIRST AID</b>	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time or your poison control center at 1-800-222-1222.	

Alligare Fluridone contains fluridone the same active ingredient found in Sonar® A.S. and Avast!® SC Aquatic herbicide.

**Manufactured for:**

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

**EPA Reg. No. 81927-45**

**Net Contents:**

**EPA Est. No.**

**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.

[Nonrefillable container ≤ 5 gallons] 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 ¼ 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.

[Nonrefillable > 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. 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 the container on its end and tip it back and forth several times. Turn the container over onto its other 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 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 (including dry or dewatered areas of these sites), 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. For mature plants, the higher application rates will be required and effects due to Alligare Fluridone treatment will take longer to observe.

A suitable analysis of the water to determine the concentration of this product is highly recommended. The most common method of water analysis for measuring fluridone concentrations which is recommended by Alligare, LLC is the Enzyme-Linked Immunoassay (ELISA Test). Contact Alligare, LLC for information on this test when using this product in treatment programs.

Application rates are shown in fluid ounces or quarts of this product to achieve a desired concentration of the active ingredient in parts per billion by weight (ppbw).

## PRECAUTIONS

- **Permits:** Consult with appropriate state or local water authorities before applying this product since state or local agencies may require permits to use Alligare Fluridone.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Hydroponic Farming:** Do not use Alligare Fluridone treated water for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water which has been treated with this product to irrigate greenhouse or nursery plants unless chemical assays of the water indicate fluridone residues are less than one part per billion (ppb).
- **Maximum Use Rates:** Do not apply more than a total of 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle. These maximum concentrations are the amounts of fluridone calculated as the target application rate, NOT the concentration determined by analysis of fluridone in the treated water.
- **Waiting Periods:** If application rates are 150 ppb or less, treated water may be used immediately with no waiting period for drinking (potable) water (including watering livestock and pets), fishing or swimming. See specific restrictions below for Potable Water Intakes and Irrigation.
- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, DO NOT APPLY this product at application rates greater than 20 ppb within 1/4 mile (1320 feet) of any functioning potable water intake. If rates are between 6 and 20 ppb, this product MAY BE APPLIED where functioning potable water intakes are present.  
**Note:** Existing potable water intakes which are no longer in use, such as those replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water.
- **Irrigation:** Irrigation using water treated with this product may injure the irrigated vegetation. Instruct those who use Alligare Fluridone treated water to follow the recommended waiting periods listed in the table below and to assay the water for fluridone residues. For crops grown on low organic and sandy soils and irrigated with Alligare Fluridone treated water, the potential for crop injury is greater than for crops grown on heavier soils.

If a shorter waiting period is desired for irrigation of crops using Alligare Fluridone treated water, use a suitable analysis (ELISA or other methods) to measure the concentration of fluridone in the treated

water. If the concentration of fluridone is less than 10 ppb, established tree crops, established row crops or turf can be irrigated with Alligare Fluridone treated water.

If the concentrations of fluridone are greater than 5 ppb, tobacco, tomatoes, peppers or other plants within the *Solanaceae* Family and newly seeded crops or newly seeded grasses such as over-seeded golf course greens should NOT be irrigated with Alligare Fluridone treated water. Rotation Crops: Do not plant members of the *Solanaceae* family on land that has been previously irrigated with water containing more than 5 ppb of fluridone. Consult an aquatic specialist prior to commencing irrigation of such sites.

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 <sup>a</sup>	7	30	Assay required
Canals	7	14	Assay required
Lakes and Reservoirs <sup>b</sup>	7	14	Assay required
Dry or Dewatered Canals <sup>b</sup> Canals <sup>*</sup>	0	0	*

<sup>a</sup>**Ponds:** For Alligare Fluridone labeling purposes, a pond is defined as a body of water 10 acres or less in size.

<sup>b</sup>**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.

<sup>b</sup>In lakes and reservoirs where one-half or greater of the body of the water is treated, use the pond and static canal irrigation precautions. When applying this product to exposed sediments of aquatic sites such as lakes and reservoirs, follow these time frames prior to using water for irrigation once sites are reflooded.

\*When this product is applied to exposed sediments of dry or dewatered canals, allow canals to refill for a minimum of 24 hours before using water for irrigation.

### 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	Emersed Plants	Submersed Plants	Shoreline Grasses
common duckweed ( <i>Lemna minor</i> )	spatterdock ( <i>Nuphar luteum</i> ) water-lily ( <i>Nymphaea</i> spp.)	bladderwort ( <i>Utricularia</i> spp.) 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</i> spp.) pondweed ( <i>Potamogeton</i> spp., except Illinois pondweed) watermilfoil ( <i>Myriophyllum</i> spp., except variable-leaf milfoil) Widgeon grass* ( <i>Ruppia maritima</i> )	paragrass ( <i>Urochloa mutica</i> )

\*Not approved for this use in California.

### Vascular Aquatic Plants Partially Controlled by Alligare Fluridone

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

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

**Vascular Aquatic Plants Not Controlled by Alligare Fluridone\***

<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> ) arrowhead ( <i>Sagittaria</i> spp.) bacopa ( <i>Bacopa</i> spp.) big floating heart, banana lily ( <i>Nymphoides aquatica</i> ) bulrush ( <i>Scirpus</i> spp.) floating waterhyacinth ( <i>Eichhornia crassipes</i> ) pickerelweed, lanceleaf ( <i>Pontederia</i> spp.) rush ( <i>Juncus</i> spp.) water pennywort ( <i>Hydrocotyle umbellata</i> )		maidencane ( <i>Panicum hemitomon</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 ½ to ¾ 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> <p>Do not exceed 90 ppb per annual growth cycle.</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)	
6	23.4 (0.73)	46.7 (1.46)	
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 (1.22)	78.1 (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	1.6 (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	117.1

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
	(0.41)	(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	<b>Single applications:</b> Apply this product at 30 to 150 ppb. <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.
Treatment Areas Within 1/4 Mile of a Functioning Potable Water Intake	One may apply a concentration of greater than 20 ppb if the application is made at least 1/4

Partial Lake or Reservoir Treatment Site	Rates and Instructions
	<p>mile or more from the functioning potable water intake.</p> <p>Application rates of less than 20 ppb may be made within 1/4 mile of the potable water intake but use ELISA or other methods to verify that the fluridone concentration does not exceed 150 ppb at the potable water intake.</p>

### Application to Sediments of Dry or Dewatered Aquatic Sites

For applications of Alligare Fluridone to sediments of dry or dewatered aquatic sites, including exposed sediments of lakes and reservoirs, irrigation canals, non-irrigation canals and drainage canals, apply a maximum of 2 quarts of this product per surface acre per annual growth cycle. Apply Alligare Fluridone evenly to the sediment surface, with a minimum spray solution of 30 to 100 gallons per surface acre. High levels of organic matter in treated sediments may reduce efficacy. Alligare Fluridone may be applied with other aquatic herbicides labeled for this use.

### 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>
Static or Moving Water Canals Containing a Functioning Potable Water Intake	<p>One may apply a concentration of greater than 20 ppb Alligare Fluridone at least 1/4 mile or greater from the functioning potable water intake.</p> <p>Application rates of less than 20 ppb may be made within 1/4 mile of the potable water intake but use ELISA or other methods to verify that the fluridone concentration does not exceed 150 ppb at the potable water intake.</p>

### 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,  $11.7 \text{ fl. oz.} \div 32 = 0.37 \text{ quarts.}$

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:  
 $\text{CFS (cubic feet per second)} = \text{Average flow rate (feet per second)} \times \text{average canal width (ft.)} \times \text{average canal depth (ft.)} \times 0.9$
2. Calculate the Water Movement in Acre-Feet per Day:  
 $\text{Water movement in acre-feet per day} = \text{CFS} \times 1.98$
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.

Avast!® SC and Sonar® A.S. are registered trademarks of SePRO Corp.

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

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