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(1H)-pyridinone . . . . . . 41.7%

**OTHER INGREDIENTS:**

Sonar ® A. S. and Avast! ® SC Aquatic herbicide.

**HOT LINE NUMBER**

1-800-424-9300

**FIRST AID**

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 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 swallowed:

- Immediately call a poison control center or doctor for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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 treatment advice.

**POTABLE WATER INTAKES**

- If rates are between 6 and 20 ppb, this product MAY BE APPLIED where functioning potable water intakes are present.

**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.**

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.

**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 ¾ full with water and recap. Shake for 10 seconds. Pour rinse into application equipment or a mix tank or store rinsewater 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 (including dry or dried-out 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 carotenoid synthesis in the target weeds. Lack of caroten 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 for measuring water and aquatic plant 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. 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 overseeded golf courses, 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.

<table>
<thead>
<tr>
<th>Application Sites</th>
<th>Number of Days to Wait after Alligare Fluridone Application Before Irrigating with Alligare Fluridone Treated Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ponds and Static Canals*</td>
<td>7</td>
</tr>
<tr>
<td>Canals</td>
<td>7</td>
</tr>
<tr>
<td>Lakes and Reservoirs*</td>
<td>7</td>
</tr>
<tr>
<td>Dry or Dewatered Canals*</td>
<td>0</td>
</tr>
</tbody>
</table>

*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. 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.

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

<table>
<thead>
<tr>
<th>Floating Plants</th>
<th>Submersed Plants</th>
<th>Emerged Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>common duckweed (Lemna minor)</td>
<td>bladderwort (Utricularia spp.)</td>
<td>common coontail ( Ceratophyllum demersum )</td>
</tr>
<tr>
<td>spatterdock ( Nuphar luteum )</td>
<td>egeria, Brazilian elodea (Egeria densa)</td>
<td>water-lily ( Nymphea spp. )</td>
</tr>
<tr>
<td>parrotfeather (Myriophyllum spp.)</td>
<td>lanswort, cabomba (Cabomba caroliniana)</td>
<td>hydrilla (Hydriella verticillata)</td>
</tr>
<tr>
<td>paragrass (Utricularia mutica)</td>
<td>pondweed (Potamogeton spp., except Illinois pondweed)</td>
<td>shuttlegrass (Panicum repens)</td>
</tr>
<tr>
<td>watermilfoil ( Myriophyllum spp., except variable-leaf milfoil)</td>
<td>Widgeon grass* (Ruppia maritima)</td>
<td></td>
</tr>
</tbody>
</table>

*Not approved for use in this California.

Vascular Aquatic Plants Partially Controlled by Alligare Fluridone

<table>
<thead>
<tr>
<th>Floating Plants</th>
<th>Emerged Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>common watermeal ( Wolffia columbiana )</td>
<td>alligatorweed ( Alismathana philoxeroides )</td>
</tr>
<tr>
<td>American lotus ( Nuphar luteum )</td>
<td>cattail (Typha spp.)</td>
</tr>
<tr>
<td>creeping waterprimrose ( Ludwigia palustris )</td>
<td>parrotfeather (Myriophyllum aquaticum)</td>
</tr>
<tr>
<td>parrotfeather (Myriophyllum spp.)</td>
<td>spikerush (Eleocharis spp.)</td>
</tr>
<tr>
<td>pondweeds ( Potamocoryne spp.)</td>
<td>water_pfursnale ( Ludwigia palustris )</td>
</tr>
<tr>
<td>watershield ( Brasenia schreberi)</td>
<td>upwatergrass (Nuphar luteum)</td>
</tr>
<tr>
<td>Illinois pondweed ( Potamogeton illinoensis )</td>
<td>submerged milfoil ( Myriophyllum heterophyllum )</td>
</tr>
<tr>
<td>sweetgrass (Eleocharis spp.)</td>
<td>Shoreline Grasses</td>
</tr>
<tr>
<td>American eelgrass ( Vallisneria americana )</td>
<td>banyardgrass ( Echinocloa crusgalli )</td>
</tr>
<tr>
<td>watermilfoil-variable-leaf milfoil (Myriophyllum heterophyllum)</td>
<td>giant cutgrass (Zizania aquatica)</td>
</tr>
</tbody>
</table>

Shoreline Grasses

<table>
<thead>
<tr>
<th>Floating Plants</th>
<th>Shoreline Grasses</th>
</tr>
</thead>
<tbody>
<tr>
<td>waterlily (Nymphaea spp.)</td>
<td>madancane (Panicum hemitomon)</td>
</tr>
<tr>
<td>Emerged Plants</td>
<td>American frogbit ( Limnobium spongia )</td>
</tr>
<tr>
<td>arrowhead ( Sagittaria spp. )</td>
<td>big floating heart, banana lily (Nymphaeoides aquatic)</td>
</tr>
<tr>
<td>cattail ( Typha spp.)</td>
<td>bulrush ( Scirpus spp.)</td>
</tr>
<tr>
<td>floating waterhyacinth (Eichhornia crassipes)</td>
<td>pickerelweed, lanceleal (Pontederia spp.)</td>
</tr>
<tr>
<td>pike or arrowhead ( Sagittaria spp. )</td>
<td>rush ( Juncus spp.)</td>
</tr>
<tr>
<td>water pennywort (Hydrocotyle umbellata)</td>
<td>*Note: Alligare Fluridone does not control algae (Chara, Nilaria, and single-cellular, colonial and filamentous species).</td>
</tr>
</tbody>
</table>

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 operation.
2. Add 1% to ½% 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 hydrosols. 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 Gts.) of Alligare Fluridone per Treated Acre To Achieve Desired Herbicide Concentration:
--- | ---
45 ppb | 90 ppb
1 | 3.8 fl. oz. (0.12 qts.) | 7.7 fl. oz. (0.24 qts.)
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)

Application Directions

Apply Alligare Fluridone to the entire surface area of the pond.

Single Applications: 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). Split or Multiple applications: Use when dilution of the treated water is likely to occur. Do not exceed 90 ppb per annual growth cycle.

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 Trearments (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.
**ALLIGARE FLURIDONE**

**Specimen Label**

**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. Using Moving Water Canals

   - Optimum performance will be achieved when water flow is restricted or reduced.
   - 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.

### Application Rates

**Static or Moving Water Canals Containing a Functioning Potable Water Intake**

- 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 within ¼ 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.

### 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 to treat per acre = 

\[
\text{Average water depth of treatment site in feet} \times \text{desired ppb concentration of fluridone} \times \frac{43,96] \times \text{average canal width (ft.)} \times \text{average canal depth (ft.)} \times 0.9
\]

1. Determine the Cubic Feet per Second as follows:

   - CFS (cubic feet per second) = Average flow rate (feet per second) x average canal width (ft.) x average canal depth (ft.)

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.

EPA 20151201

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**Rates For Single Application of Alligare Fluridone**

<table>
<thead>
<tr>
<th>Average Water Depth at Treatment Site In Feet</th>
<th>Fluid Ounces or (Quarts) of Alligare Fluridone per Acre To Achieve Desired Herbicide Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/4 mile from a Functioning Potable Water Intake</td>
<td>10 ppb</td>
</tr>
<tr>
<td>1 3/4 mile from a Functioning Potable Water Intake</td>
<td>20 ppb</td>
</tr>
<tr>
<td>1 3/4 mile from a Functioning Potable Water Intake</td>
<td>40 ppb</td>
</tr>
<tr>
<td>1 3/4 mile from a Functioning Potable Water Intake</td>
<td>60 ppb</td>
</tr>
<tr>
<td>1 3/4 mile from a Functioning Potable Water Intake</td>
<td>80 ppb</td>
</tr>
<tr>
<td>1 3/4 mile from a Functioning Potable Water Intake</td>
<td>100 ppb</td>
</tr>
</tbody>
</table>

**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.

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**Partial Lake or Reservoir Treatments**

- **If the concentration 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.**

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**Application Rates of Less Than 20 ppm**

- Application rates of less than 20 ppb may be made within ¼ 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.

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**How to Calculate Application Rates**

1. Determine the Cubic Feet per Second as follows:

   \[
   \text{CFS (cubic feet per second)} = \text{Average flow rate (feet per second)} \times \text{average canal width (ft.)} \times \text{average canal depth (ft.)}
   \]

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:

   \[
   \text{Acre-feet per day} \times \text{desired ppb} \times 0.0027 = \text{Quarts of Alligare Fluridone required per day}
   \]