



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

November 4, 2025

Lei Han, Ph.D.  
Head of Regulatory Affair  
SePRO Corporation  
11550 N. Meridian Street, Suite 600  
Carmel, IN 46032

Subject: Label Amendment - Registration Review Mitigation for Fluridone  
Product Name: RESTORES.M.A.R.T  
EPA Registration Number: 67690-103  
Case Number: 472581  
Application Dates: June 24, 2022

Dear Lei Han:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Fluridone Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

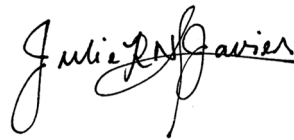
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded 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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at 202-566-0636, or via email at [carr.caleb@epa.gov](mailto:carr.caleb@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Julie R. Javier". The signature is fluid and cursive, with the first name "Julie" being the most prominent.

Julie Javier, Team Leader  
Risk Mitigation and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

[ALL VERSIONS: Front of label booklet]



FLURIDONE

GROUP

12

HERBICIDE

# RESTOREs.m.a.r.t.™

Selective Management Aquatic Restoration Tool  
Granular Aquatic Herbicide

For the control of aquatic vegetation in fresh water ponds, lakes, rivers, potable water sources, drainage or irrigation canals and reservoirs.

## Active Ingredient:

Fluridone: 1-methyl-3-phenyl-5-(3-(trifluoromethyl)phenyl)-4(1H)-pyridinone ..... 5.0%

Other Ingredients: ..... 95.0%

Total: ..... 100.0%

Contains 0.05 lb. active ingredient per pound.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

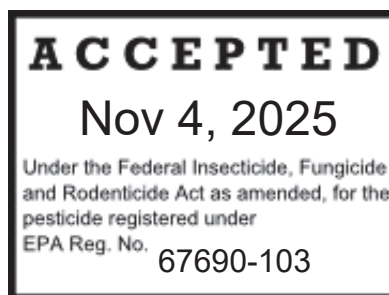
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail).

EPA Registration No. 67690-103  
FPL20250501

EPA Est. No. \_\_\_\_\_  
[P/N] \_\_\_\_\_

SePRO Corporation • 11550 N. Meridian St., Suite 600 • Carmel, IN 46032, U.S.A.

Net Contents \_\_\_\_\_ (Non-refillable)



**[ALL VERSIONS: Label booklet]**

| <b>FIRST AID</b>                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If swallowed</b>                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately 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 a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <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> </ul> <p>Call a poison control center or doctor for treatment advice.</p>                                                                                                                            |
| <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>HOTLINE NUMBER</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                              |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call <b>INFOTRAC</b> at <b>1-800-535-5053</b>.</p> |                                                                                                                                                                                                                                                                                                                                                              |

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION. Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing. Wear protective eyewear.**

**Personal Protective Equipment (PPE)****Waterproof gloves are required for the following application scenarios:**

- Mixing/loading/applying with hand wand sprayer to ponds/lakes
- Mixing/loading/applying with hand wand sprayer to static canals
- Mixing/loading/applying with backpack sprayer to static canals

**ENVIRONMENTAL HAZARDS** Do not apply to water except as specified on the label. Do not contaminate water outside the intended treatment area by disposal of equipment washwaters. 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. Trees and shrubs growing in water treated with this product

may occasionally develop chlorosis. Follow use directions carefully so as to minimize adverse effects on non-target organisms.

### Non-Target Organisms Advisory

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize off-site movement.

*[Text in brackets is either marketing claims or brackets act as a placeholder for graphics.]*

[Controls Many Aquatic Weeds]

[[Controls] [Hydrilla] [Duckweed] [Lily] [Coontail] [Milfoil]]

[graphic of Hydrilla] [graphic of Duckweed] [graphic of Lily] [graphic of Coontail] [graphic of Milfoil]

[This Product Controls the Entire Weed, Including the Roots]

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## DIRECTIONS FOR USE

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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.

## PRODUCT INFORMATION

This product is a selective systemic aquatic herbicide in pellet form for managing aquatic vegetation in fresh water ponds, lakes, rivers, drainage or irrigation canals and reservoirs. This product contains 5% fluridone.

This product is absorbed by plant shoots through water and through the roots of aquatic vascular plants via hydrosol and operates by inhibiting susceptible plants from forming carotene causing chlorophyll to degrade quickly in sunlight. Susceptibility may be affected by factors such as stage of growth, water movement and the season. Symptoms of treatment include white (chlorotic) or pink growing points appearing 7-10 days following application. Management of aquatic weeds will take between 30-90 days following treatment in optimum conditions.

This product is most effective when applied before weed growth begins or when weeds start active growth. Mature weeds may take longer to control and may require application rates at the higher end of the specified range. Dilution of this product (caused by rapid water movement for example) will reduce effectiveness.

The ELISA Test (Enzyme-Linked Immunoassay) is recommended for calculating the required active ingredient (fluridone) concentration in treated water, other proven methods of chemical analyses may also be used. For more information contact SePRO Corporation.

The application rates provided below are expressed in pounds of this product in order to achieve the specified concentration of active ingredient, expressed in parts per billion (ppb).

**The maximum application rate or sum of all application rates per annual growth cycle is 90 ppb<sup>†</sup> in ponds and 150 ppb<sup>†</sup> in lakes and reservoirs:**

<sup>†</sup> This is calculated by using the actual application rate not by using the residue levels found by testing the treated water.

## Weed Resistance Management

For resistance management, this product is a Group 12 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 12 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

Rotate the use of this product or other Group 12 herbicides within a growing season or among growing seasons with different herbicide groups that control the same weeds.

Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.

Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and that considers mechanical control methods, cultural (e.g., timing to favor the desirable plants and not the weeds), biological (weed-competitive varieties) and other management practices.

Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.

If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

Contact your sales representative, pest control advisors, or local extension specialist for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of plants and weed biotypes.

**For further information or to report suspected resistance, contact your local SePRO Corporation representative.**

## Use Restrictions

Before applications of this product are made to public waters, applicators must consult with relevant authorities as posting treatment notifications may be required and/or obtaining other permits/licenses may be necessary prior to treatment.

- **DO NOT** apply this product to waters less than 2 feet in depth in New York state.
- **DO NOT** apply this product to water used for hydroponic farming.
- **DO NOT** use water treated with this product for irrigation in greenhouses or for nursery plants UNLESS an ELISA assay is carried out beforehand and shows that residues are less than 1 ppb.

- Water Use Restrictions Following Application With This Product**

| Application Rate<br>150ppb or less             | Use<br>Restriction<br>(Days) | Notes                                                                                                                                                                              |
|------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Drinking</b>                                | <b>0</b>                     | See the "Potable Water Intakes" section of this label (below) for instructions on the treatment of water within 0.25 miles of a functioning potable water intake.                  |
| <b>Irrigation</b>                              | <b>0</b>                     | When irrigating with water treated with this product, see the "Irrigation" section of this label (below) for time frames/fluridone residues that provide the widest safety margin. |
| <b>Livestock / Domestic Animal Consumption</b> | <b>0</b>                     |                                                                                                                                                                                    |
| <b>Fishing</b>                                 | <b>0</b>                     |                                                                                                                                                                                    |
| <b>Swimming</b>                                | <b>0</b>                     |                                                                                                                                                                                    |

- Potable Water Intakes**

A concentration of up to 150 ppb of the active ingredient in this product (fluridone) is allowed in potable water sources, **but:** for lakes and reservoirs/other sources of potable water, applicators **MUST NOT** apply this product at a rate greater than 20 ppb within 0.25 miles of any functioning potable water intake\*.

This product may be applied at a rate of 8-20 ppb within 0.25 miles of any functioning potable water intake\*.

\*Former potable water intakes which are no longer used are not considered functioning potable water intakes for these purposes, for example, potable water intakes that have been replaced by a connection to another source of potable water e.g. the municipal water system.

- Irrigation**

Damage may be caused to irrigated vegetables if irrigation waters are treated with this product. There is a greater chance of injuring crops when water treated with this product is applied to soil with low organic content or soil with a high sand content. In order to minimize the risk of damage, applicators must follow the assay directions and time frames in the table below:

| Source of Water<br>Where This<br>Product has been<br>applied | The use sites below <b>MUST NOT</b> be watered within the following time<br>frames following application of this product to the source of water <sup>††</sup> |                       |                     |                           |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|---------------------------|
|                                                              | Established Row<br>Crops                                                                                                                                      | Established<br>Plants | Established<br>Turf | Established<br>Tree Crops |
| Static Canals                                                | 30 days                                                                                                                                                       | 30 days               | 30 days             | 7 days                    |
| Ponds <sup>†††</sup>                                         | 30 days                                                                                                                                                       | 30 days               | 30 days             |                           |
| Lakes and<br>Reservoirs <sup>††††</sup>                      | 7 days                                                                                                                                                        | 7 days                | 7 days              |                           |
| Rivers                                                       |                                                                                                                                                               |                       |                     |                           |
| Canals                                                       |                                                                                                                                                               |                       |                     |                           |

For seedbeds, newly seeded crops/grasses or on areas that will be planted (including gold course greens that have been over-seeded), an ELISA assay is required prior to application. Do not use water treated with this product in these areas if the concentration of active ingredient (fluridone) is greater than 5 ppb. Consultation with an aquatic specialist is recommended before irrigating these sites.

If the result of an ELISA assay determine that the concentration of active ingredient (fluridone) is greater than 5 ppb, do not use that water source to irrigate plants within the Solanaceae family e.g. tomatoes, peppers, tobacco. Members of the Solanaceae family must not be planted in land that has been irrigated with water treated with fluridone concentrations of greater than 5 ppb. Consultation with an aquatic specialist is recommended before irrigating these sites.

<sup>††</sup> If water treated with this product is to be used prior to the to the time frame detailed in the table above, applicators must carry out an ELISA assay to determine the concentration of active ingredient (fluridone) in the water. Where the concentration of active ingredient is less than 10 ppb there are no irrigation precautions/time frames for watering established row crops, established tree crops or established turf.

<sup>†††</sup> For the purposes of applying this product, a pond is a body of water of 10 acres or less.

<sup>††††</sup> For the purposes of applying this product, a lake/reservoir is a body of water of greater than 10 acres. Where one half or more of the lake/reservoir has been treated with this product, use the time frame specified above for ponds and static canals.

## PLANT CONTROL INFORMATION

The following categories are used to describe the expected efficacy of this product when applied using maximum label rates in ideal application conditions:

- controlled
- partially controlled
- not controlled (i.e. tolerant of this product)

If this product is applied using lower application rates, the number of plants listed as partially controlled or controlled will increase.

The control of aquatic plants can also be categorized as controlled, partially controlled or not controlled (i.e. tolerant of this product). Before applying this product, in order to determine the tolerance or susceptibility to this product of a plant, consult an aquatic specialist.

## IMPORTANT: Algae are not controlled by this product (nitella, filamentous and chara species)

This product selectivity depends upon the following factors:

- Dosage/concentration
- Water movement
- Stage of growth
- Application method
- The time of year



| Species CONTROLLED by This Product                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                  |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Submersed Plants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Emersed Plants                                                                                                                                                                                   | Shoreline Grasses                    |
| bladderwort ( <i>Utricularia</i> spp)<br>common coontail ( <i>Ceratophyllum demersum</i> ) <sup>†</sup><br>common Elodea ( <i>Elodea canadensis</i> )<br>egeria, Brazilian Elodea ( <i>Egeria densa</i> )<br>fanwort, Cabomba ( <i>Cabomba caroliniana</i> )<br>hydrilla ( <i>Hydrilla verticillata</i> )<br>naiad ( <i>Najas</i> spp) <sup>†</sup><br>pondweed ( <i>Potamogeton</i> spp., except Illinois pondweed) <sup>†</sup><br>watermilfoil ( <i>Myriophyllum</i> spp., except variable-leaf milfoil) | duckweed ( <i>Lemna</i> <sup>†</sup> , <i>Spirodela</i> <sup>†</sup> , and <i>Landoltia</i> spp.)<br>salvina ( <i>Salvinia</i> spp.)<br>mosquito fern ( <i>Azolla caroliniana</i> ) <sup>†</sup> | paragrass ( <i>Urochloa mutica</i> ) |

<sup>†</sup>Native plants, often tolerant to fluridone at lower use rates.

Where selective control of exotic species is needed, consult an aquatic specialist for recommended use rates. Maximum rates on this label MUST NOT be exceeded.

| Species PARTIALLY CONTROLLED by This Product                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Submersed Plants                                                                                                                                                                                                                             | Emersed Plants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Shoreline Grasses                                                                                                                                                                                                                                          |
| Illinois pondweed ( <i>Potamogeton illinoensis</i> )<br>limnophila ( <i>Limnophila sessiliflora</i> )<br>tapegrass, American eelgrass ( <i>Vallisneria americana</i> )<br>watermilfoil - variable-leaf ( <i>Myriophyllum heterophyllum</i> ) | alligatorweed ( <i>Alternanthera philoxeroides</i> )<br>American lotus ( <i>Nelumbo lutea</i> )<br>cattail ( <i>Typha</i> spp.)<br>creeping waterprimrose ( <i>Ludwigia pep/oides</i> )<br>parrotfeather ( <i>Myriophyllum aquaticum</i> )<br>smartweed ( <i>Polygonum</i> spp.)<br>spatterdock ( <i>Nuphar luteum</i> )<br>spikerush ( <i>E/eocharis</i> spp.)<br>waterlily ( <i>Nymphaea</i> spp.)<br>waterpurslane ( <i>Ludwigia pa/ustris</i> )<br>watershield ( <i>Brasenia schreben</i> ) | barnyardgrass ( <i>Echinoch/oa crusgallt</i> )<br>giant cutgrass ( <i>Zizaniopsis miliacea</i> )<br>reed canarygrass ( <i>Philaris arundinaceae</i> )<br>southern watergrass ( <i>Hydrochloa caroliniensis</i> )<br>torpedograss ( <i>Panicum repens</i> ) |

| Species NOT CONTROLLED by This Product                                                                                                                                                                                                                                                                                                                   |                                                                                                     |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------|
| Submersed Plants                                                                                                                                                                                                                                                                                                                                         | Floating Plants                                                                                     | Shoreline Grasses                       |
| American frogbit ( <i>Limnobium spongia</i> )<br>arrowhead ( <i>Sagittaria</i> spp.)<br>bacopa ( <i>Bacopa</i> spp.)<br>big floatingheart, banana lily ( <i>Nymphoides aquatica</i> )<br>bulrush ( <i>Scirpus</i> spp.)<br>pickerelweed, lanceleaf ( <i>Pontederia</i> spp.)<br>rush ( <i>Juncus</i> spp.)<br>water pennywort ( <i>Hydrocotyle</i> spp.) | floating waterhyacinth ( <i>Eichhornia crassipes</i> )<br>waterlettuce ( <i>Pistia stratiotes</i> ) | maidencane ( <i>Panicum hemitomon</i> ) |

### Algae are not controlled by this product (nitella, filamentous and chara species)

- Prior to application, determine what aquatic plants are present in the area to be treated. Once species have been identified, determine their susceptibility/tolerance to this product.
- In order to determine the correct application rate, calculate the surface area (in acres) that you wish to treat, and the average depth of the water (in feet).
- Applicators **MUST NOT** exceed the maximum rate in this label for any treated area in an annual growth cycle.

### Applications to Ponds

The whole surface area of a pond may be treated with this product.

For a single application of this product, select an application rate that will provide a concentration of 30 to 90 ppb in treated water (see table below). Due to the slow release formulation of this product, actual concentrations in treated water maybe lower at any point.

Where dilution of the water to be treated is foreseen, multiple applications may be used. The total of all applications in an annual growth cycle should be 30 to 90 ppb and **MUST NOT** exceed 90 ppb.

Use higher application rates:

- Where there is a dense weed mass in the area to be treated.
- Where there are species which are difficult to control.
- In ponds, less than 5 acres in surface area and an average depth of less than 4 feet.

Lower application rates may be selected where the applicator requires selective control for sensitive target plants. Refer to the table below for application rates to achieve the appropriate concentration.

### Application Rates for Ponds (per Treated Surface Acre)

| Ave Depth (in feet) | Pounds of this product required to achieve a concentration of 45 ppb | Pounds of this product required to achieve a concentration of 90 ppb |
|---------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| 1                   | 2.5                                                                  | 5.0                                                                  |
| 2                   | 5.0                                                                  | 10.0                                                                 |
| 3                   | 7.5                                                                  | 15.0                                                                 |
| 4                   | 10.0                                                                 | 20.0                                                                 |

|    |      |      |
|----|------|------|
| 5  | 12.5 | 25.0 |
| 6  | 15.0 | 30.0 |
| 7  | 17.0 | 34.0 |
| 8  | 19.5 | 39.0 |
| 9  | 22.5 | 44.0 |
| 10 | 24.5 | 49.0 |

For more application rate calculations, see the **Method of Calculation of Application Rate: Lakes, Reservoirs and Ponds** table below.

### **Application to Lakes and Reservoirs**

When applying this product to reservoirs and partial lakes, for optimal results, the treatment area should be 5 acres or more. Applying this product to smaller areas (i.e. less than 5 acres) or to narrow areas (e.g. shorelines or boat lanes) may result in sub-optimal results due to the dilution of treated water by untreated water.

**IMPORTANT:** In reservoirs or lakes, when applying this product within 0.25 miles of a potable water intake, a single application **MUST NOT** exceed 20 ppb, and the total of applications in a yearly growth cycle **MUST NOT** exceed 150 ppb.

The treatment methods below may be used as a method of application for whole or partial reservoirs or lakes. Ranges of rates of application are provided in order to deal with environmental factors, such as:

- plant susceptibility
- selectivity
- target species
- aquatic plant management objectives

Applicators must select the most appropriate application rate and application method in order to meet specific aquatic plant management objectives.

### ***Whole Lakes / Reservoirs with Limited or No Water Discharge***

#### **Treatment Method 1: Single Application to Whole Lakes/Reservoirs**

See the **Method of Calculation of Application Rate: Lakes, Reservoirs and Ponds** section for specific application rate calculation.

When applying a single treatment to a whole lake/reservoir, use an application rate of 16 to 90 ppb. In order to achieve the desired concentration, use the table below. Select a rate from the table that will best meet plant management objectives.

Choose a lower application rate in the range where greater plant selectivity is required e.g. for the control of curlyleaf pondweed and Eurasian watermilfoil. When controlling other species, it is the recommendation of SePRO Corporation that an aquatic specialist is consulted in order to determine when lower application rates should be used to meet plant management objectives.

When dealing with:

- difficult to control species
- dilution caused by heavy rainfall
- an area which is densely weeded

use the higher rate within the range. When dealing with these plants/conditions, split/multiple applications may be required.

**IMPORTANT:** The total of all applications in an annual growth cycle MUST NOT exceed 150 ppb.

See *Treatment Method 2: Split/Multiple Applications to Whole Lakes/Reservoirs*, for instructions maximum application rates.

### Single Application Rates for Whole Lakes/Reservoirs (per Treated Surface Acre)

| Ave Depth (in feet) | Pounds of this product required to achieve a concentration of 16 ppb | Pounds of this product required to achieve a concentration of 90 ppb |
|---------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| 1                   | 0.9                                                                  | 5.0                                                                  |
| 2                   | 1.7                                                                  | 10.0                                                                 |
| 3                   | 2.6                                                                  | 15.0                                                                 |
| 4                   | 3.5                                                                  | 20.0                                                                 |
| 5                   | 4.3                                                                  | 25.0                                                                 |
| 6                   | 5.2                                                                  | 30.0                                                                 |
| 7                   | 6.0                                                                  | 34.0                                                                 |
| 8                   | 6.9                                                                  | 39.0                                                                 |
| 9                   | 7.8                                                                  | 44.0                                                                 |
| 10                  | 8.6                                                                  | 49.0                                                                 |
| 11                  | 9.5                                                                  | 54.0                                                                 |
| 12                  | 10.4                                                                 | 59.0                                                                 |
| 13                  | 11.2                                                                 | 64.0                                                                 |
| 14                  | 12.1                                                                 | 68.0                                                                 |
| 15                  | 13.0                                                                 | 73.0                                                                 |
| 16                  | 13.8                                                                 | 78.0                                                                 |
| 17                  | 14.7                                                                 | 83.0                                                                 |
| 18                  | 15.6                                                                 | 88.0                                                                 |
| 19                  | 16.4                                                                 | 93.0                                                                 |
| 20                  | 17.3                                                                 | 98.0                                                                 |

### Treatment Method 2: Split or Multiple Applications to Whole Lakes or Reservoirs

Split/multiple applications may be required in order to achieve some plant management objectives, for example, where applicators want to use the minimum effective dose and then sustain that level of concentration in order to enhance selectivity and optimize efficiency.

Where split/multiple applications are used apply this product at lower rates in the rate range i.e. 16 to 75 ppb. Choose a lower application rate in the range where greater plant selectivity is required e.g. for the control of curlyleaf pondweed and Eurasian watermilfoil. When controlling other species, it is recommended that an aquatic specialist is consulted in order to determine when lower application rates should be used in order to meet plant management objectives.

**IMPORTANT:** The total of all applications in an annual growth cycle MUST NOT exceed 150 ppb.

### *Treatment of Partial Lakes/Reservoirs*

Split/multiple applications may be required where dilution of this product by untreated water is likely to occur, e.g. when treating part of a reservoir or lake. In such circumstances, split/multiple applications may be used in order to prolong the contact time of targeted plants with the active ingredient (fluridone).

The nature of the area to be treated with this product will dictate the required rate and frequency of application. For example, where greater dilution by untreated waters is predicted, apply this product at a higher rate in the range of rates.

### **Treatment Method 3: For Areas More Than 0.25 Miles from a Functioning Potable Water Intake**

**IMPORTANT:** former potable water intakes which are no longer used are not considered functioning potable water intakes for these purposes, for example, potable water intakes that have been replaced by a connection to another source of potable water e.g. the municipal water system.

For single applications, apply this product at an application rate of 45 to 150 ppb when treating with this product as a single application.

Use split/multiple applications in order to sustain the required concentration of active ingredient for 45 days or longer. It is recommended that ELISA is used in order to ensure that the required concentration is maintained.

**IMPORTANT:** When using split/multiple applications, the total of all applications in an annual growth cycle **MUST NOT** exceed 150 ppb.

### **Treatment Method 4: For Areas within 0.25 Miles of a Functioning Potable Water Intake**

A single application **MUST NOT** exceed 20 ppb in areas treated with this product that are less than 0.25 miles from a potable water intake. If applicators use split/multiple applications on areas which have a potable water intake, use an ELISA test to determine the concentration of active ingredient (fluridone) in the water.

**IMPORTANT:** When using split/multiple applications, the total of all applications in an annual growth cycle **MUST NOT** exceed 150 ppb.

| <b>Method of Calculation of Application Rate: Lakes, Reservoirs and Ponds</b>                  |   |                                                                                  |
|------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------|
| (Average depth of water (in feet) of area to be treated)                                       |   |                                                                                  |
| <b>X</b>                                                                                       |   |                                                                                  |
| (Required concentration (in ppb) of active ingredient)                                         | = | <b>Amount of this product to be applied per acre of surface area (in pounds)</b> |
| <b>X</b>                                                                                       |   |                                                                                  |
| <b>0.054</b>                                                                                   |   |                                                                                  |
| <b>Example:</b> to provide a concentration of 20 ppb in water with an average depth of 8 feet: |   |                                                                                  |
| Ave depth: 8ft                                                                                 |   |                                                                                  |
| <b>X</b>                                                                                       |   |                                                                                  |
| Required concentration: 20 ppb                                                                 | = | <b>8.6 pounds of this product per acre of surface area</b>                       |
| <b>X</b>                                                                                       |   |                                                                                  |
| <b>0.054</b>                                                                                   |   |                                                                                  |

**IMPORTANT:** Calculated rates MUST NOT exceed maximum rates listed in site specific application rate tables.

### Treatment of Irrigation Canals, Drainage Canals and Rivers

Static Drainage and Static Irrigation Canals, apply this product at the rate of 20 to 40 pounds per surface acre.

Rivers or Static or Moving Water Canals Containing a Functioning Potable Water Intake: apply this product as follows:

In treating a static or moving water canal or river which contains a functioning potable water intake:

1. Applications greater than 20 ppb must be made more than ¼ mile from a functioning potable water intake.
2. Applications less than 20 ppb may be applied within ¼ mile from a functioning potable water intake; However, if applications are made within ¼ mile from a functioning water intake, the ELISA test must show that the concentration of active ingredient (fluridone) in the treated water does not exceed 150 ppb at the potable water intake.

Rivers and Moving Water Canals: apply this product as follows: this product will perform better if the water flow can be restricted.

In slow moving bodies of water, use an application technique that maintains a concentration of 10 to 40 ppb in the applied area for a minimum of 45 days. This product can be applied by split or multiple broadcast applications or by metering in the product to provide a uniform concentration of the herbicide based upon the flow pattern.

The use of an ELISA test is recommended to maintain the desired concentration in the target area over time.

| <b>Method of Calculation of Application Rate: Drainage Canals, Irrigation Canals and Rivers</b> |   |                                                       |
|-------------------------------------------------------------------------------------------------|---|-------------------------------------------------------|
| <b>Step 1:</b>                                                                                  |   |                                                       |
| Average flow rate (in feet per second)                                                          |   |                                                       |
| <b>X</b>                                                                                        |   |                                                       |
| Average width (in feet)                                                                         |   |                                                       |
| <b>X</b>                                                                                        | = | Cubic feet per second (CFS)                           |
| Average Depth (in feet)                                                                         |   |                                                       |
| <b>X</b>                                                                                        |   |                                                       |
| 0.09                                                                                            |   |                                                       |
| <b>Step 2:</b>                                                                                  |   |                                                       |
| CFS                                                                                             |   |                                                       |
| <b>X</b>                                                                                        | = | Water movement in acre feet per day                   |
| 1.98                                                                                            |   |                                                       |
| <b>Step 3:</b>                                                                                  |   |                                                       |
| Acre feet per day                                                                               |   |                                                       |
| <b>X</b>                                                                                        |   |                                                       |
| Required ppb                                                                                    | = | This product <b>to be applied per day (in pounds)</b> |
| <b>X</b>                                                                                        |   |                                                       |

**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 may be used according to label directions or disposed of at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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.

[Optional Warranty Statements]

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