**Avast! SC**

**Aquatic Herbicide**

**SPECIMEN**

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

For use in New York State, comply with Section 24 (C) Special Local Need labeling for Avast! SC. SLN NY-09-0003

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

Other Ingredients: 58.3%

TOTAL: 100.0%

Contains 4 pounds of fluridone per gallon.

**Keep Out of Reach of Children**

CAUTION / PRECAUCIÓN

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

**First Aid**

If swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Let person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If on skin or clothing:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

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.

If in eyes:
- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**Hotline Number**

Have the product container or label with you when calling a poison control center or doctor, or using this product. Read Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitations of Inside Label booklet.

EPA Reg. No. 67690-30
FPL-20120928

**Environments Hazards**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Avast! SC may occasionally develop chlorosis. Do not apply in tidewater/grackish 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.

**Instruments**

Avast! SC is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Avast! SC is absorbed from water by plant shoots and from hydrosoil by the roots of aquatic vascular plants. It is important to maintain the specified concentration of Avast! SC in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition that results in rapid dilution of Avast! SC in treated water will reduce its effectiveness.

In susceptible plants, Avast! SC inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Avast! SC appear in seven to ten days and appear as white (chlorotic) or pink growing points. Under optimum conditions, 30 to 90 days are required before the desired level of aquatic weed management is obtained with Avast! SC. Species susceptibility to Avast! SC may vary, depending on time of year, stage of growth, and water movement. For best results, apply Avast! SC prior to initiation of weed growth or when weeds begin active growth. Mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Avast! SC is not corrosive to application equipment.

This label provides recommendations on the use of a laboratory analysis for the active ingredient. SePRO Corporation recommends the use of high-performance liquid chromatography (HPLC) for the determination of fluridone concentrations in water. It is recommended to contact SePRO Corporation for the incorporation of this test, known as a FasTEST, in a treatment program.

FasTEST is referenced in this label as the preferred method for the rapid determination of the active ingredient in water. Other proven chemical analyses for the active ingredient may also be used.

Application rates are provided in fluid ounces or quarts of Avast! SC to achieve a desired concentration of the active ingredient in parts per billion (ppb). The maximum application rate or sum of all application rates is 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle. This maximum concentration is the amount of product calculated as the target application rate, NOT determined by testing the residues of the active ingredient in the treated water.

**Special Precautions**

- Obtain required permits: Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
- Use of Avast! SC in channels and stream beds should be limited to areas where FasTEST has demonstrated concentrations are less than 10 ppb.
- Greenhouse and Nursery Plants: Consult with SePRO Corporation for site-specific recommendations prior to any use of Avast! SC treated water for irrigating greenhouse or nursery plants. Without site-specific guidance from SePRO, do not use Avast! SC treated water for irrigating greenhouse or nursery plants unless a FasTEST has been run and confirmed that concentrations are less than 1 ppb.
- **Water Use Restrictions Following Applications of Avast! SC (Days)***

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Drinking&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Fishing</th>
<th>Swimming</th>
<th>Livestock/Pet Consumption</th>
<th>Irrigation&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>(150 ppb) or less</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>See irrigation instructions below</td>
</tr>
<tr>
<td>Maximum Rate</td>
<td>7</td>
<td>30</td>
<td>Assay required</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>(150 ppb) or less</td>
<td>3</td>
<td></td>
<td>Assay required</td>
<td>14</td>
<td>Assay required</td>
</tr>
</tbody>
</table>

**Environmental Hazards**

Follow use directions carefully so as to minimize adverse effects on non-target organisms. Do not contaminate untreated water when disposing of equipment washwaters. Trees and shrubs growing in water treated with Avast! SC may occasionally develop chlorosis. Do not apply in tidewater/grackish 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.

**WAITING PERIODS BEFORE IRRIGATING WITH WATER TREATED WITH AVAST! SC**

<table>
<thead>
<tr>
<th>Application Site</th>
<th>Established Tree Crops</th>
<th>Established Row Crops/Turf/Plants</th>
<th>Newly Seeded Crops/Seedbeds or Areas to be Planted Including Overseeded Golf Course Greens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ponds and Static Canals&lt;sup&gt;1&lt;/sup&gt;</td>
<td>7</td>
<td>30</td>
<td>Assay required</td>
</tr>
<tr>
<td>Canals</td>
<td>7</td>
<td>14</td>
<td>Assay required</td>
</tr>
<tr>
<td>Lakes and Reservoirs&lt;sup&gt;1&lt;/sup&gt;</td>
<td>7</td>
<td>14</td>
<td>Assay required</td>
</tr>
</tbody>
</table>

**Notes:**
1. Note below, under Potable Water Intakes, the information for application of Avast! SC within ¼ mile (1,320 feet) of a functional potable water intake.

2. Note below, under Irrigation, specific time frames or fluridone residues that provide the widest margin of safety for irrigating with treated water with Avast! SC.

3. Potable Water Intakes: In lakes and reservoirs or other sources of potable water, do not apply Avast! SC at application rates greater than 20 ppb within ¼ mile (1,320 feet) of any functioning potable water intake. At application rates of 6 to 20 ppb, Avast! SC may be applied where functioning potable water intakes are present. NOTE: Existing potable water intakes that are no longer in use, such as those that have been replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.

4. Irrigation: Irrigation with treated water with Avast! SC may result in injury to the irrigated vegetation. Inform those who irrigate from areas treated with Avast! SC of the irrigation time frames or FasTEST requirements presented in the table below. Follow the following time frames and assay directions to reduce the potential for injury to vegetation irrigated with water treated with Avast! SC. There is a greater potential for crop injury when water treated with Avast! SC is applied to crops grown in low organic and sandy soils.

**Obtain required permits:** Permits may be required by state or local agencies. Consult with appropriate State or local water authorities before applying this product.
Application to Whole Lakes and Reservoirs

The following treatments may be used for treating both whole lakes or reservoirs and partial areas of lakes or reservoirs (bays, etc.). For best results in treating lakes and reservoirs, Avast! SC treatment areas should be a minimum of 5 acres in size. Treatment of areas smaller than 5 acres or treatment of narrow strips, such as boat lanes or shorelines, may not produce satisfactory results due to dilution of untreated water. Rate ranges are provided as a guide to a wide range of environmental factors, such as target species, plant susceptibility, selectivity and other aquatic plant management objectives. Application rates and methods should be selected to meet the specific lake/reservoir aquatic plant management goals.

- Whole Lake or Reservoir Treatments

<table>
<thead>
<tr>
<th>Average Water Depth of Treatment Site (feet)</th>
<th>Quarts of Avast! SC per Treated Surface Acre 45 ppb to 90 ppb</th>
<th>Fluid Ounces of Avast! SC per Treated Surface Acre 45 ppb to 90 ppb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.12 to 0.24</td>
<td>3.8 to 7.7</td>
</tr>
<tr>
<td>2</td>
<td>0.24 to 0.49</td>
<td>7.7 to 15.7</td>
</tr>
<tr>
<td>3</td>
<td>0.37 to 0.73</td>
<td>11.8 to 23.4</td>
</tr>
<tr>
<td>4</td>
<td>0.49 to 0.98</td>
<td>15.7 to 31.4</td>
</tr>
<tr>
<td>5</td>
<td>0.61 to 1.22</td>
<td>19.5 to 39.0</td>
</tr>
<tr>
<td>6</td>
<td>0.73 to 1.46</td>
<td>23.4 to 46.7</td>
</tr>
<tr>
<td>7</td>
<td>0.85 to 1.70</td>
<td>27.2 to 54.4</td>
</tr>
<tr>
<td>8</td>
<td>0.98 to 1.95</td>
<td>31.4 to 62.4</td>
</tr>
<tr>
<td>9</td>
<td>1.10 to 2.19</td>
<td>35.2 to 70.1</td>
</tr>
<tr>
<td>10</td>
<td>1.22 to 2.44</td>
<td>39.0 to 78.1</td>
</tr>
</tbody>
</table>

NOTE: In treating lakes or reservoirs that contain functional potable water intakes and the application requires treating within 1/4 mile of a potable water intake, application rates may be increased to 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.
TREATMENT AREAS WITHIN 1/4 MILE OF A FUNCTIONING POTABLE WATER INTAKE: In treatment areas that are within 1/4 mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Avast! SC for sites that contain a potable water intake, FastTEST or other appropriate means of analysis is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

APPLICATION RATE CALCULATION — PONDS, LAKES AND RESERVOIRS

The amount of Avast! SC to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Avast! SC required per treated surface acre = Average water depth of treatment site (feet) x Desired ppb concentration of active ingredient x 0.0027

For example, the quarts per acre of Avast! SC required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

5 x 25 x 0.0027 = 0.33 quarts per treated surface acre

When measuring quantities of Avast! SC, quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.33 quarts x 32 = 10.5 fluid ounces.

NOTE: Calculated rates may not exceed the maximum allowable rate in quarts per treated surface acre for the water depth listed in the application rate table for the site to be treated.

APPLICATION TO DRAINAGE CANALS AND IRRIGATION CANALS

- **Static Canals**: In static drainage and irrigation canals, apply Avast! SC at the rate of 1 to 2 quarts per treated surface acre.
- **Moving Water Canals**: The performance of Avast! SC will be enhanced by restricting or reducing water flow. In slow moving bodies of water, use an application technique that maintains a concentration of 15 to 40 ppb in the target area for a minimum of 45 days. Avast! SC 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 FastTEST or other appropriate means of analysis is recommended to maintain the desired concentration in the target area over time.
- **Static or Moving Water Canals Containing a Functioning Potable Water Intake**: In treating a static or moving water canal that contains a functioning potable water intake, DO NOT apply Avast! SC at application rates greater than 20 ppb within 1/4 mile (1320 feet) of any functioning potable water intake. Applications of less than 20 ppb may be applied within 1/4 mile from a functioning potable water intake; however, if applications of Avast! SC are made within 1/4 mile from a functioning potable water intake, the FastTEST or other appropriate means of analysis must be utilized to demonstrate that concentrations do not exceed 150 ppb at the potable water intake.

APPLICATION RATE CALCULATION — MOVING WATER DRAINAGE CANALS AND IRRIGATION CANALS

The amount of Avast! SC to be applied through a metering system to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

1. Average flow rate (feet per second) x Average canal width (feet) x Average water depth (feet) x 0.9 = Cubic feet per second (CFS)
2. CFS x 1.98 = acre-feet per day (water movement)
3. Acre-feet per day x desired ppb x 0.0027 = Quarts of Avast! SC required per day

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. Keep from freezing.

**Pesticide Disposal**
Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility.

**Container Handling**
Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinseate into application equipment or a mix tank, or store rinseate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) 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 rinseate into application equipment or a mix tank, or store rinseate for later use or disposal. Repeat this procedure two more times.

**Pressure Rinse as follows**: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinseate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable Container**: Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Triple rinse the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinseate into application equipment or rinseate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. DO NOT transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

**TERMS AND CONDITIONS OF USE**

If terms of the following Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies.

**WARRANTY DISCLAIMER**

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

**INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of this product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tomatoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

**LIMITATION OF REMEDIES**

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation’s election, one of the following:

1. Refund of purchase price paid by buyer or user for the product bought, or
2. Replacement of amount of the product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitations of Remedies in any manner.

*Copyright 2013 SePRO Corporation
*Trademark of SePRO Corporation