

61842-11

8-24-2007

1/14



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Ann M. Tillman
Agent
Tessenderlo Kerley Inc.
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332

AUG 24 2007

Re: Notification of an Alternate Brand Name
EPA Reg. No.: 61842-11
Date of Submission: July 27, 2007

Dear Ms. Tillman:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated July 27, 2007 for the product Tessenderlo Kerley, Inc., Fluridone SC Aquatic Herbicide. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

STG

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Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 61842-11	2. EPA Product Manager J. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Tessenderlo Kerley, Inc./Fluridone SC Aquatic Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Tessenderlo Kerley, Inc., c/o Pyxis Regulatory Consulting Inc. c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

AUG 24 2007

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of an alternate brand name per PRN 98-10. The alternate brand name is "WhiteCap SC Aquatic". This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged in:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
		If "Yes" Package wgt	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Ann M. Tillman	Title Agent	Telephone No. (include Area Code) 253-853-7369
2. Signature 		6. Date Application Received (Stamped)
3. Title Agent		
4. Typed Name Ann M. Tillman		
5. Date 7/27/07		

Certification
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

PYXIS REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

3/14
Phone: 253-853-7369
Fax: 253-853-5516
Email: www.PyxisRC.com

July 27, 2007

COURIER DELIVERY

Joanne Miller (PM 23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

RE: Tessengerlo Kerley Inc. – Fluridone SC (EPA Reg. No. 61842-11)
Notification of Alternate Brand Name per PR Notice 98-10

Dear Ms. Miller,

On behalf of Tessengerlo Kerley, Inc. please find the enclosed notification of an alternate brand name per PR Notice 98-10 for Fluridone SC Aquatic Herbicide (EPA Reg. No. 61842-11). The alternate brand name is "WhiteCap™ Aquatic Herbicide".

In support of this notification, please find the following:

1. Completed Application for Registration (EPA Form 8570-1)
2. One (1) copy of the Fluridone SC Aquatic Herbicide labeling with changes tracked
3. One (1) copy of the WhiteCap™ Aquatic Herbicide labeling with changes incorporated
4. Letter of Authorization

Please feel free to call me if you have any questions or need any additional information.

Sincerely,



Ann M. Tillman

Enclosures

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WhiteCap™ SC Aquatic Herbicide

Deleted: Fluridone SC

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%
Inert Ingredients.....	58.3%
Total.....	100.0%

NOTIFICATION

AUG 24 2007

Contains 4 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

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

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-877-1737 for emergency medical treatment information.	

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

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Manufactured for:
Tessengerlo Kerley, Inc.
2255 North 44th Street, Suite 300
Phoenix, AZ 85008-3279
1-888-732-8246

EPA Reg. No. 61842-11

EPA Est. No. 37429-GA-01

Net Weight:

Product of China - Formulated and Packaged in the United States with US and imported ingredients

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

ENVIRONMENTAL HAZARDS

Follow use directions carefully so as to minimize adverse effects on nontarget organisms. In order to avoid impact on threatened or endangered aquatic plant or animal species, users must consult their State Fish and Game Agency or the U.S. Fish and Wildlife Service before making applications. Do not contaminate water when disposing of equipment washwaters. Trees, turf, and shrubs growing in water treated with WhiteCap herbicide 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.

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DIRECTIONS FOR USE

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

Shake well before using.

STORAGE AND DISPOSAL

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

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

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

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

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

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

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Optimum results are achieved when **WhiteCap** is applied before weeds begin to actively grow. For mature plants, the higher application rates will be required and effects due to **WhiteCap** treatment will take longer to observe.

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

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

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PRECAUTIONS

- **Permits:** Consult with appropriate state or local water authorities before applying **WhiteCap** since state or local agencies may require permits to use **WhiteCap**.
- **Chemigation:** Do not apply **WhiteCap** through any type of irrigation system.
- **Hydroponic Farming:** Do not use **WhiteCap** treated water for hydroponic farming.
- **Greenhouse and Nursery Plants:** Do not use water which has been treated with **WhiteCap** to irrigate greenhouse or nursery plants unless chemical assays of the water indicate fluridone residues are less than one parts per billion (ppb).
- **Maximum Use Rates:** Do not apply more than a total of 90 ppb in ponds and 150 ppb in lakes and reservoirs per annual growth cycle. These maximum concentrations are the amounts of fluridone calculated as the target application rate, NOT the concentration determined by analysis of fluridone in the treated water.
- **Waiting Periods:** If application rates are 150 ppb or less, treated water may be used immediately with no waiting period for drinking (potable) water (including watering livestock and pets), fishing or swimming. See specific restrictions below for Potable Water Intakes and Irrigation.
- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, **DO NOT APPLY WhiteCap** 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, **WhiteCap 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 **WhiteCap** may injure the irrigated vegetation. Instruct those who use **WhiteCap**-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 **WhiteCap**-treated water, the potential for crop injury is greater than for crops grown on heavier soils.

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If a shorter waiting period is desired for irrigation of crops using **WhiteCap**-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 **WhiteCap** treated water.

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If the concentrations of fluridone are greater than 5 ppb, tobacco, tomatoes, peppers or other plants within the *Solanaceae* Family and newly seeded crops or newly seeded grasses such as over-seeded golf course greens should NOT be irrigated with **WhiteCap**-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.

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

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^a**Ponds:** For WhiteCap labeling purposes, a pond is defined as a body of water 10 acres or less in size
Lakes or Reservoirs: For WhiteCap 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.

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AQUATIC PLANT INFORMATION

Depending on the use rate, water movement, application timing, weed growth stage and application method, WhiteCap will control, partially control, or will not control certain aquatic plant species. The table below categorizes the species when WhiteCap 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 WhiteCap. Aquatic plants not listed may also be controlled, partially controlled, or be tolerant to WhiteCap.

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Before applying WhiteCap, identify the aquatic plants to determine their susceptibility to WhiteCap.

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Vascular Aquatic Plants Controlled by WhiteCap

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

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Vascular Aquatic Plants Partially Controlled by WhiteCap

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

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

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Vascular Aquatic Plants Not Controlled by WhiteCap

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

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

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PREPARATION OF WhiteCap SPRAY SOLUTIONS

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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 WhiteCap:

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

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

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Note: WhiteCap is not corrosive to application equipment.

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Tank Mix Recommendations

Tank mixes of WhiteCap 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 WhiteCap for use directions, precautions, and restrictions.

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DIRECTIONS FOR APPLICATION - PONDS

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

Average Water Depth of Treatment Site in Feet	Fluid Ounces (or Qts.) of <u>WhiteCap</u> per Treated Acre To Achieve Desired Herbicide Concentration:		Application Directions
	45 ppb	90 ppb	
1	3.8 fl. oz. (0.12 qts.)	7.7 fl. oz. (0.24 qts.)	Apply <u>WhiteCap</u> to the entire surface area of the pond. Single Applications: Use the amount of <u>WhiteCap</u> 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.
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	54.4	

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Average Water Depth of Treatment Site In Feet	Fluid Ounces (or Qts.) of <u>WhiteCap</u> per Treated Acre To Achieve Desired Herbicide Concentration:		Application Directions
	45 ppb	90 ppb	
	(0.85)	(1.70)	
8	31.4	62.4	
	(0.98)	(1.95)	
9	35.2	70.1	
	(1.1)	(2.19)	
10	39.0	78.1	
	(1.22)	(2.44)	

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DIRECTIONS FOR APPLICATION – LAKES AND RESERVOIRS

WhiteCap is recommended 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 WhiteCap 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 WhiteCap 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.

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

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

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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.

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Rates For Single Application of WhiteCap

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

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

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

Partial Lake or Reservoir Treatments

If the chance of dilution of WhiteCap 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 WhiteCap concentration in the treatment area is anticipated.

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

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

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DIRECTIONS FOR APPLICATION – DRAINAGE CANALS AND IRRIGATION CANALS

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

Application Site	Rates and instructions
Static Canals	1 – 2 quarts per treated acre
Moving Water Canals	<p>Optimum performance will be achieved when water flow is restricted or reduced.</p> <p>For slowly moving bodies of water, apply using techniques that maintain the fluridone concentration at 15-40 ppb for at least 45 days. Use split or multiple broadcast applications (or metering methods) to ensure a uniform concentration of fluridone. Use the ELISA or other analyses to ensure that the desired concentration of fluridone is maintained over time.</p>
Static or Moving Water Canals Containing a Functioning Potable Water Intake	<p>One may apply a concentration of greater than 20 ppb <u>WhiteCap</u> at least ¼ mile or greater from the functioning potable water intake. Application rates of less than 20 ppb may be made with ¼ mile of the potable water intake but use ELISA or other methods to verify that the fluridone concentration do not exceed 150 ppb at the potable</p>

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water intake.

HOW TO CALCULATE APPLICATION RATES

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

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

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

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

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

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

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

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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.) x 0.9

2. Calculate the Water Movement in Acre-Feet per Day:
Water movement in acre-feet per day = CFS x 1.98

3. Amount of **WhiteCap** required:
Acre-feet per day x desired ppb x 0.0027 = Quarts of **WhiteCap** required per day

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CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Tessenderlo Kerley, Inc., or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Tessenderlo Kerley, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use, subject to the factors noted above which are beyond the control of Tessenderlo Kerley, Inc. Except as warranted by this label, Tessenderlo Kerley, Inc. makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose. To the extent allowed by applicable law, the exclusive remedy against Tessenderlo Kerley, Inc. for any cause of action relating to the handling or use of this product is a claim of damage, and in no event shall damages or any other recovery of any kind against Tessenderlo Kerley, Inc. exceed the price of the product which causes the alleged loss, damage, injury, or other claim. To the extent allowed by applicable law, Tessenderlo Kerley, Inc. shall not be liable and any and all claims against Tessenderlo Kerley, Inc. are waived, for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income, whether or not based on the negligence of Tessenderlo Kerley, Inc. breach of warranty, strict liability in tort, or any other cause of action. Tessenderlo Kerley, Inc. and the seller offer this product, and the buyer and users accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies.

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

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

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