

FIFRA 24(C)



Classified for
"RESTRICTED USE"
in New York State
under 6NYCRR Part 326

SPECIAL LOCAL NEED (SLN) LABEL

SePRO Corporation 11550 N. Meridian St., Suite 600, Carmel, IN 46032 USA www.sepro.com

This is a Restricted Use Pesticide in New York State

ACCEPTED
FOR REGISTRATION

Sonar* A.S. Aquatic Herbicide

MAR 27 2009

EPA Reg. No. 67690-4
24(c) Special Local Need Registration (SLN NY-95-0002)

New York State Department
of Environmental Conservation
Division of Solid & Hazardous Materials
Pesticide Product Registration

FOR DISTRIBUTION AND USE ONLY IN THE STATE OF NEW YORK Doc ID: 518050

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

Active Ingredient

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

Other Ingredients 58.3%

TOTAL 100.0%

Contains 4 pounds active ingredient per gallon.

ATTENTION

- 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.
- **In the state of New York, Sonar A.S. is registered under FIFRA Section 24(c) as a Special Local Need (SLN) registration. For the state of New York, this 24(c) supplemental labeling provides directions for use, including use precautions and limitations applicable to the use of Sonar A.S. and supersedes the Directions for Use on the product/package label.**
- **See product label for Precautionary Statements, Environmental Hazards, Storage and Disposal, Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies.**
- This FIFRA Section 24(c) labeling must be in the possession of the user at the time of application.
- Notice to All Pesticide Applicators in the State of New York: Before application under any project program, notification of and approval by the NYS Department of Environmental Conservation is required, either by an aquatic permit issued pursuant to ECL Section 15.0313(4) or issuance of purchase permits for such use.
- This supplemental labeling must accompany every container of Sonar A.S. (EPA Reg. No. 67690-4) sold or distributed in New York State.
- Sonar A.S. (EPA Reg. No. 67690-4) is a Restricted Use Pesticide in New York State and may be sold, offered for sale, distributed, possessed or used only by a certified applicator or purchase permit holder.
- Swimming in treated waters is prohibited for a period of 24 hours following application of Sonar A.S.
- All restrictions and precautions on the EPA registered label are to be followed.

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DIRECTIONS FOR USE

GENERAL INFORMATION

Sonar A.S. herbicide is a selective systemic aquatic herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, drainage canals and irrigation canals. Sonar A.S. is absorbed from water by plant shoots and from hydrosol by the roots of aquatic vascular plants. It is important to maintain the recommended concentration of Sonar A.S. in contact with the target plants for a minimum of 45 days. Rapid water movement or any condition which results in rapid dilution of Sonar A.S. in treated water will reduce its effectiveness. In susceptible plants, Sonar A.S. inhibits the formation of carotene. In the absence of carotene, chlorophyll is rapidly degraded by sunlight. Herbicidal symptoms of Sonar A.S. appear in 7 to 10 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 plant management is achieved with Sonar A.S. Species susceptibility to Sonar A.S. may vary depending on time of year, stage of growth, and water movement. For best results, apply Sonar A.S. prior to initiation of weed growth or when weeds begin active growth. Application to mature target plants may require an application rate at the higher end of the specified rate range and may take longer to control.

Sonar A.S. is not corrosive to application equipment.

The label provides recommendations on the use of a chemical analysis for the active ingredient. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA Test) for the determination of the active ingredient concentration in the water. Contact SePRO Corporation for the incorporation of this test, known as a FastEST, into your treatment program. Other proven chemical analyses for the active ingredient may also be used. The chemical analysis, a FastEST, is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.

Application rates are provided in ounces or quarts of Sonar A.S. to achieve a desired concentration of the active ingredient in parts per billion (ppb). **The maximum application rate for any single application must not exceed 50 ppb and the sum of all applications cannot exceed 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.

GENERAL USE PRECAUTIONS

- **Obtain Required Permits:** Consult with appropriate state or local water authorities before applying this product. Permits may be required by state or local public agencies.
- **Chemigation:** Do not apply Sonar A.S. through any type of irrigation system.
- **Hydroponic Farming:** Do not use Sonar A.S. treated water for hydroponic farming.



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- **Greenhouse and Nursery Plants:** Do not use Sonar A.S. treated water for irrigating greenhouse or nursery plants. Use of an approved assay should confirm that residues are <1 ppb.
- **Water Use Restrictions Following Applications With Sonar A.S. (Days)**

| Application Rate | Drinking [†] | Fishing | Swimming | Livestock/Pet Consumption | Irrigation ^{††} |
|-------------------------------|-----------------------|---------|----------|---------------------------|-----------------------------------|
| Maximum Rate (50 ppb or less) | 0 | 0 | 1 | 0 | See irrigation instructions below |

[†] Note below, under *Potable Water Intakes*, the information for application of Sonar A.S. within ¼ mile (1,320 feet) of a functioning potable water intake.

^{††} Note below, under *Irrigation*, specific time frames or fluridone residues that provide the widest safety margin for irrigating with fluridone treated water.

- **Potable Water Intakes:** In lakes and reservoirs or other sources of potable water, do not apply Sonar A.S. at application rates greater than 20 ppb within one-fourth mile (1,320 feet) of any functioning potable water intake. At application rates of 4 - 20 ppb, Sonar A.S. may be applied within one-fourth (¼) mile (1,320 feet) of any functioning potable water intake providing potable use of the water is delayed for 24 hours. The water may be turned on prior to 24 hours if the active ingredient level in the water is below 50 ppb as determined by laboratory analysis. **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 intakes.**
- **Irrigation:** Irrigation from a Sonar A.S. treated area may result in injury to the irrigated vegetation. Follow these precautions and inform those who irrigate from areas treated with Sonar A.S. of the irrigation time frames or water assay 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 Sonar A.S. Greater potential for crop injury occurs where Sonar A.S. treated water is applied to crops grown on low organic and sandy soils.

| Application Site | DAYS AFTER APPLICATION | | |
|--------------------------------------|------------------------|-----------------------------------|--|
| | Established Tree Crops | Established Row Crops/Turf/Plants | Newly Seeded Crops / Seedbeds 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 |

[†] For the purposes of this FIFRA Section 24(c) Sonar A.S. labeling, a pond is defined as a body of water 5 acres or less in size; a lake or reservoir is greater than 5 acres.

^{††} In lakes and reservoirs where one-half or greater of the body of water is treated, use the pond and static canal irrigation precautions.

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Where the use of Sonar A.S. treated water is desired for irrigating crops prior to the time frames established above, the use of a FasTEST assay is recommended to measure the concentration in the treated water. Where a FasTEST has determined that the concentrations are less than 10 parts per billion (ppb), there are no irrigation precautions for irrigating established tree crops, established row crops or turf. **For tobacco, tomatoes, peppers or other plants within the Solanaceae Family and newly seeded crops or newly seeded grasses such as overseeded golf course greens, do not use Sonar A.S. treated water if measured fluridone concentrations are greater than 5 ppb. Furthermore, when rotating crops, do not plant members of the Solanaceae family in land that has been previously irrigated with fluridone concentrations in excess of 5 ppb. It is recommended that an aquatic specialist be consulted prior to commencing irrigation of these sites.**

PLANT CONTROL INFORMATION

Sonar A.S. selectivity is dependent upon dosage, time of year, stage of growth, method of application and water movement. The following categories, controlled, partially controlled, and not controlled are provided to describe expected efficacy under ideal treatment conditions using higher to maximum label rates. Use of lower rates will increase selectivity of some species listed as controlled or partially controlled. Additional aquatic plants may be controlled, partially controlled, or tolerant to Sonar A.S. Consult an aquatic specialist prior to application of Sonar A.S. to determine a plant's susceptibility to Sonar A.S.

Mixing and Application Directions

The aquatic plants present in the treatment site should be identified prior to application to determine their susceptibility to Sonar A.S. It is important to determine the area (acres) to be treated and the average depth in order to select the proper application rate. Do not exceed the maximum labeled rate for a given treatment site per annual growth cycle.

Shake Sonar A.S. well before using. Add the specified amount of Sonar A.S. to water in the spray tank during the filling operation. Agitate while filling and during spraying. Surface or subsurface application of the spray can be made with conventional spray equipment. Sonar A.S. can also be applied near the surface of the hydrosoil using weighted trailing hoses. A spray volume of 5 to 100 gallons per acre may be used. Sonar A.S. may also be diluted with water and the concentrated mix metered into the pumping system.

Tank Mix Directions

Sonar A.S. may be tank mixed with other aquatic herbicides and algaecides to enhance efficacy and plant selectivity. Refer to the companion herbicide or algaecide label for use directions, precautions, and restrictions on use.

APPLICATION TO PONDS

For the purposes of the following Directions for Use, a pond is defined as a body of water 5 acres or less in size. Sonar A.S. may be applied to the entire surface area of a pond. For single applications, rates may be selected to provide 4 - 50 ppb in the treated water. Use the higher rate within the rate range where there is a dense weed mass, when treating more

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difficult to control species, and for ponds less than 5 acres in size with an average depth less than 4 feet. Application rates necessary to obtain these concentrations are shown in the following table. Split or multiple applications may be used to sustain a sufficient concentration for a minimum of 45 days or longer. For additional rate calculations, refer to the *Application Rate Calculation — Ponds, Lakes, Reservoirs* section of the label.

In ponds, the maximum application rate for any single application must not exceed 50 ppb and the sum of all applications cannot exceed 90 ppb per annual growth cycle.

| APPLICATION RATES FOR PONDS | | | | |
|--|--|--------|--|--------|
| Average Water Depth of Treatment Site (feet) | Quarts of Sonar A.S. per Treated Surface Acre to Achieve | | Fluid Ounces of Sonar A.S. per Treated Surface Acre to Achieve | |
| | 4 ppb | 50 ppb | 4 ppb | 50 ppb |
| 1 | 0.01 | 0.13 | 0.3 | 4.2 |
| 2 | 0.02 | 0.27 | 0.7 | 8.6 |
| 3 | 0.03 | 0.40 | 1.0 | 12.8 |
| 4 | 0.04 | 0.54 | 1.4 | 17.3 |
| 5 | 0.05 | 0.67 | 1.7 | 21.4 |
| 6 | 0.06 | 0.81 | 2.1 | 25.9 |
| 7 | 0.08 | 0.94 | 2.4 | 30.1 |
| 8 | 0.09 | 1.08 | 2.8 | 35.2 |
| 9 | 0.10 | 1.21 | 3.1 | 38.4 |
| 10 | 0.11 | 1.35 | 3.5 | 41.6 |

Vascular Aquatic Plants Controlled in Ponds by Sonar A.S.

Submersed Plants:

- bladderwort (*Utricularia* spp.)
- common coontail (*Ceratophyllum demersum*)
- common elodea (*Elodea canadensis*)
- curlyleaf pondweed (*Potamogeton crispus*)
- egeria, Brazilian elodea (*Egeria densa*)
- Eurasian watermilfoil (*Myriophyllum spicatum*)
- fanwort, cabomba (*Cabomba caroliniana*)
- hydrilla (*Hydrilla verticillata*)
- naiad (*Najas* spp.)
- pondweed (*Potamogeton* spp., except Illinois pondweed)
- watermilfoil (*Myriophyllum* spp., except parrot-feather)

Floating Plants:

- common duckweed (*Lemna minor*) -- Controlled only with a surface application.

Emerged Plants:

- spatterdock (*Nuphar luteum*)
- waterlily (*Nymphaea* spp.)

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APPLICATION TO LAKES AND RESERVOIRS

For the purposes of the following Directions for Use, a lake or reservoir is defined as a body of water greater than 5 acres in size. 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 partial lakes or reservoirs, Sonar A.S. 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 by untreated water. Rate ranges are provided as a guide to include 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.

In lakes or reservoirs, the maximum application rate or any single application must not exceed 50 ppb and the sum of all applications cannot exceed 150 ppb per annual growth cycle.

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

Single Application to Whole Lakes or Reservoirs

Where single applications to whole lakes or reservoirs are desired, apply Sonar A.S. at an application rate of 4 to 50 ppb. Application rates necessary to obtain these concentrations in treated water are shown in the following table. For additional rate calculations, refer to the *Application Rate Calculation — Ponds, Lakes, and Reservoirs* section of this label. Choose an application rate from the table below to meet the aquatic plant management objective. **Where greater plant selectivity is desired such as when controlling Eurasian watermilfoil and curlyleaf pondweed, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting an aquatic specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. Use the higher rate within the rate range where there is a dense weed mass or when treating more difficult to control plant species. Retreatments may be required to control more difficult to control species or in the event of a heavy rainfall event where dilution of the treatment concentration has occurred. In these cases, a second application or more may be required; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Refer to the section of this label entitled, *Split or Multiple Applications to Whole Lakes or Reservoirs*, for guidelines and maximum rate allowed.

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| SINGLE APPLICATION RATES FOR LAKES OR RESERVOIRS | | | | |
|--|--|--------|--|--------|
| Average Water Depth of Treatment Site (feet) | Quarts of Sonar A.S. per Treated Surface Acre to Achieve | | Fluid Ounces of Sonar A.S. per Treated Surface Acre to Achieve | |
| | 4 ppb | 50 ppb | 4 ppb | 50 ppb |
| 1 | 0.01 | 0.13 | 0.3 | 4.2 |
| 2 | 0.02 | 0.27 | 0.7 | 8.6 |
| 3 | 0.03 | 0.40 | 1.0 | 12.8 |
| 4 | 0.04 | 0.54 | 1.4 | 17.3 |
| 5 | 0.05 | 0.67 | 1.7 | 21.4 |
| 6 | 0.06 | 0.81 | 2.1 | 25.9 |
| 7 | 0.08 | 0.94 | 2.4 | 30.1 |
| 8 | 0.09 | 1.08 | 2.8 | 35.2 |
| 9 | 0.10 | 1.21 | 3.1 | 38.4 |
| 10 | 0.11 | 1.35 | 3.5 | 41.6 |
| 11 | 0.12 | 1.49 | 3.8 | 48.0 |
| 12 | 0.13 | 1.62 | 4.1 | 51.2 |
| 13 | 0.14 | 1.69 | 4.5 | 54.1 |
| 14 | 0.15 | 1.82 | 4.8 | 58.2 |
| 15 | 0.16 | 1.95 | 5.2 | 62.4 |
| 16 | 0.17 | 2.08 | 5.5 | 66.6 |
| 17 | 0.18 | 2.21 | 5.9 | 70.7 |
| 18 | 0.19 | 2.34 | 6.2 | 74.9 |
| 19 | 0.21 | 2.47 | 6.6 | 79.0 |
| 20 | 0.22 | 2.60 | 6.9 | 83.2 |

Split or Multiple Applications to Whole Lakes or Reservoirs

To meet certain plant management objectives, split or multiple applications may be desired in making whole lake treatments. Split or multiple application programs are desirable when the objective is to use the minimum effective dose and, through the use of a water analysis, e.g. a FastEST, add additional Sonar A.S. to maintain this lower dose for the sufficient time to ensure efficacy and enhance selectivity. Water may be treated at an initial application of 4 to 50 ppb. Additional split applications should be conducted to maintain a sufficient concentration for a minimum of 45 days or longer. **In controlling Eurasian watermilfoil and curlyleaf pondweed and where greater plant selectivity is desired, choose an application rate lower in the rate range.** For other plant species, SePRO recommends contacting an aquatic specialist in determining when to choose application rates lower in the rate range to meet specific plant management goals. When utilizing split or multiple applications of Sonar A.S., the utilization of a FastEST is strongly recommended to determine the actual concentration in the water over time. For split or multiple applications, the sum of all applications must not exceed 150 ppb per annual growth cycle.

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NOTE: In treating lakes or reservoirs that contain functioning potable water intakes and the application requires treating within ¼ mile of a potable water intake, no single application can exceed 20 ppb. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

B. Partial Lake or Reservoir Treatments

Where dilution of Sonar A.S. with untreated water is anticipated, such as in partial lake or reservoir treatments, split or multiple applications may be used to extend the contact time to the target plants. The application rate and use frequency of Sonar A.S. in a partial lake or reservoir is highly dependent upon the treatment area. An application rate at the higher end of the specified rate range may be required and frequency of applications will vary depending upon the potential of untreated water diluting the Sonar A.S. concentration in the treatment area. Use a rate at the higher end of the rate range where greater dilution with untreated water is anticipated.

Treatment Areas Greater Than ¼ Mile from a Functioning Potable Water Intake - For single applications, apply Sonar A.S. at application rates from 21 to 50 ppb. Split or multiple applications may be made; however, the sum of all applications cannot exceed 150 ppb per annual growth cycle. Split applications should be conducted to maintain a sufficient concentration in the target area for a period of 45 days or longer. The use of a FastEST is recommended to maintain the desired concentration in the target area over time.

Treatment Areas Within ¼ Mile of a Functioning Potable Water Intake - In treatment areas that are within ¼ mile of a potable water intake, no single application can exceed 20 ppb. When utilizing split or multiple applications of Sonar A.S. for sites that contain a potable water intake, a FastEST is required to determine the actual concentration in the water. Additionally, the sum of all applications cannot exceed 150 ppb per annual growth cycle.

Vascular Aquatic Plants Controlled in Lakes or Reservoirs by Sonar A.S.

Submersed Plants:

bladderwort (*Utricularia* spp.)
common coontail (*Ceratophyllum demersum*)
common elodea (*Elodea canadensis*)
curlyleaf pondweed (*Potamogeton crispus*)
egeria, Brazilian elodea (*Egeria densa*)
Eurasian watermilfoil (*Myriophyllum spicatum*)
fanwort, cabomba (*Cabomba caroliniana*)
hydrilla (*Hydrilla verticillata*)
naiad (*Najas* spp.)
pondweed (*Potamogeton* spp., except Illinois pondweed)
watermilfoil (*Myriophyllum* spp.), except parrot-feather and variable-leaf

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Floating Plants:

common duckweed (*Lemna minor*)--Recommended only when treating entire lakes or reservoirs and as a surface application.

Emersed Plants:

spatterdock (*Nuphar luteum*)

waterlily (*Nymphaea* spp.)

Vascular Aquatic Plants Not Controlled in Lakes or Reservoirs by Sonar A.S.

Floating Plants:

Waterlettuce (*Pistia stratiotes*)

Emersed Plants:

American frogbit (*Limnobium spongia*)

Arrowhead (*Sagittaria* spp.)

Bacopa (*Bacopa* spp.)

Big floatingheart, banana lilly (*Nymphoides aquatica*)

Bulrush (*Scirpus* spp.)

Floating waterhyacinth (*Eichhornia crassipes*)

Pickerelweed, lanceleaf (*Pontederia* spp.)

Rush (*Juncus* spp.)

Water pennywort (*Hydrocotyle umbellata*)

Shoreline Grasses:

Maidencane (*Panicum hemitomon*)

NOTE: algae (chara, nitella, and filamentous species) are not controlled by Sonar A.S.

Application Rate Calculation — Ponds, Lakes and Reservoirs

The amount of Sonar A.S. to be applied to provide the desired ppb concentration of active ingredient in treated water may be calculated as follows:

Quarts of Sonar A.S. 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 Sonar A.S. required to provide a concentration of 25 ppb of active ingredient in water with an average depth of 5 feet is calculated as follows:

$$5 \times 25 \times 0.0027 = 0.33 \text{ quart per treated surface area}$$

When measuring quantities of Sonar A.S., quarts may be converted to fluid ounces by multiplying quarts to be measured by 32. For example, 0.25 quarts x 32 = 8 fluid ounces.

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NOTE: Calculated rates may not exceed the maximum allowable rate as described in the *General Information* section of this label.

APPLICATION TO DRAINAGE CANALS AND IRRIGATION CANALS

A. Static Canals:

In static drainage and irrigation canals, apply Sonar A.S. at the rate of 30 to 50 ppb per treated surface acre. The maximum application rate or sum of all application rates cannot exceed 150 ppb per annual growth cycle.

B. Moving Water Canals:

The performance of Sonar A.S. 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 - 40 ppb in the target area for a minimum of 45 days. Sonar A.S. 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 a FasTEST is recommended to maintain the desired concentration in the target area over time.

C. Static or Moving Water Canals Containing a Functioning Potable Water Intake

In treating a static or moving water canal which contains a functioning potable water intake, applications of Sonar A.S. greater than 20 ppb must be made more than $\frac{1}{4}$ mile from a functioning potable water intake. Applications less than 20 ppb may be applied within $\frac{1}{4}$ mile from a functioning potable water intake; however, if applications of Sonar A.S. are made within $\frac{1}{4}$ mile of a functioning potable water intake, a FasTEST must be utilized to demonstrate that concentrations do not exceed 150 ppb at the functioning potable water intake.

Application Rate Calculation — Moving Water Drainage and Irrigation Canals

The amount of Sonar A.S. 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 (ft.) x average canal depth (ft.) x 0.9 = CFS (cubic feet per second).
2. CFS x 1.98 = acre feet per day (water movement)
3. Acre feet per day x desired ppb x 0.0027 = Quarts of Sonar A.S. required per day

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