

# Soteria™

**SPECIMEN**



**FLUAZINAM GROUP 29 FUNGICIDE**

For use to control diseases of turf grasses on golf courses.

**Active Ingredient**

Fluazinam: 3-chloro-N-[3-chloro-2,6-dinitro-4-trifluoromethyl) phenyl]-5-trifluoromethyl-2- pyridinamine (CA) ..... 40.0%

Other Ingredients..... 60.0%

**Total** ..... 100.0%

Contains 4.24 lbs fluazinam per gallon (508 grams per liter).

## 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).

Refer to label booklet for additional Precautionary Statements and Directions for Use including First Aid and Storage and Disposal.

**Notice:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read *Warranty Disclaimer* and *Misuse* statements in label booklet. If terms are not acceptable, return at once unopened.

Soteria is a trademark of SePRO Corporation.

EPA Reg. No. 67690-84

SePRO Corporation

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### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use. Do not take internally.

#### FIRST AID

<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 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> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<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 treatment advice.</li> </ul>

#### HOTLINE NUMBER

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 **INFOTRAC** at **1-800-535-5053**.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and other handlers must wear:**

- Coveralls worn over long-sleeved shirt, long pants,
- Chemical-resistant gloves made of any waterproof material (such as polyethylene or polyvinyl chloride),
- Protective eyewear,
- Chemical resistant footwear and socks

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not allow contact of contaminated clothing with unprotected skin.

### PERSONAL PROTECTIVE EQUIPMENT (PPE): continued

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### ENGINEERING CONTROLS

When handlers use closed systems, or enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break down. Do not allow contact between contaminated sprayer parts and unprotected skin. Ensure sprayer is washed down daily.

### ENVIRONMENTAL HAZARDS:

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the use directions and precautions on this label may result in turf injury, poor disease control, and/or illegal residues. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). Turf grasses on golf courses are not within the scope of the Worker Protection Standard. **Do not enter treated areas until sprays have dried.**

### PRODUCT INFORMATION

Soteria is a broad-spectrum fungicide for use to control diseases of turf grasses on golf courses. This product may be applied with all types of spray equipment normally used for ground applications on golf courses. Apply this product in sufficient water to obtain adequate uniform coverage of the turf. Apply in a minimum spray volume of 40 gal of water per acre.

### Use Restrictions

- **DO NOT** apply this product to home lawns (turf) or any other residential turf.
- **DO NOT** apply this product by aerial application.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product within 25 feet of permanent water bodies (lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries).
- In the state of New York, **DO NOT** apply this product within 100 feet of any water bodies that connect with any off-site water bodies including freshwater lakes, ponds, rivers, streams or wetlands.
- **DO NOT** apply this product when the wind direction is toward nearby aquatic areas to minimize drift to these areas.
- **DO NOT** exceed 253 fl. oz. of this product (8.4 lbs. active ingredient) per acre per year.
- **DO NOT** apply more than twelve (12) applications at 0.5 fl. oz. (0.017 lbs. active ingredient) /1000 sq. ft. per year. Wait 14 days between applications.

- Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.
- Where states have more stringent regulations, they must be observed.

### Integrated Pest Management

Soteria is an excellent disease control agent when used according to label directions for control of a broad spectrum of listed plant diseases. This product is for use in programs which are compatible with the principles of Integrated Pest Management (IPM), which may include the use of disease resistant crop varieties, cultural practices, biological control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage and reducing unnecessary applications of pesticides. Practices known to reduce disease development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based on environmental factors which favor disease development.

### Resistance Management

For resistance management, Soteria contains a Group 29 fungicide. Any fungal population may contain individuals naturally resistant to Soteria and other Group 29 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of Soteria or other Group 29 fungicides within a growing season with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or pest control advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact your sales representative, pest control advisors, or local extension specialist. You can also contact your pesticide distributor or university extension specialist to report resistance.

### Plant Sensitivity

**NOTE TO USER:** Although this product has been evaluated on several turf species with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not this product can be used safely on all turf species. SePRO advises determining if this product can be used safely prior to commercial use by testing on the type of turf to be treated at specified rates for phytotoxicity.

### MIXING AND SPRAYING

Soteria can be used effectively in dilute sprays. Thorough, uniform coverage is essential for disease control.

**NOTE:** Slowly invert container several times to assure uniform mixture. Prepare only the amount of spray mixture required for immediate use. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods in the spray tank. Thoroughly clean spraying equipment immediately after the application.

**Product Alone:** Fill the spray tank with half of the required amount of water with the agitator running, then add Soteria to the spray tank. Continue agitation while adding the remainder of the water. Begin application of the solution after this product has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Tank Mixtures:** It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels

involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. This product is physically compatible with many products specified for control of diseases, liquid fertilizers, growth regulators, insecticides and biological control products. If tank mixes are desired, read and follow all directions, precautions, and limitations on labeling of all products used. This product must not be mixed with any product which prohibits such mixing. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended site. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Soteria is generally compatible with the products mentioned above, provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of this product with tank mix partners needs to be evaluated before use. A jar test should be conducted with the intended tank-mix products prior to preparation of large volumes. Use the following procedure:

### Jar Compatibility Test:

- Pour the specified proportions of the products into a suitable container of water;
- Mix thoroughly; and
- Allow to stand for 5 minutes.

If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that this product may not be used in the tank mix.

Consult compatibility charts or your local or state agricultural authorities for additional compatibility information.

### To prepare spray solution:

- Add ½ of the required amount of water to the mix/sprayer tank.
- Start the agitator running before adding any tank mix partners.
- Add the tank mix partners in the following order:
  - o Products packaged in water-soluble packaging;
  - o Wettable powders;
  - o Wettable granules (dry flowables);
  - o Liquid flowables (such as this product);
  - o Liquids; and
  - o Emulsifiable concentrates
- Always allow each tank mix partner to become fully dispersed before adding the next product.
- Provide sufficient agitation while adding the remainder of the water.
- Maintain agitation until all of the mixture has been applied.
- When using this product in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including this product.
- Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.
- Use a pump with capacity to maintain the correct rated pressure for the nozzles selected.
- Maintain sufficient agitation to keep mixture in suspension.
- Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation.
- Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturer's directions.
- For more information on spray equipment and calibration, consult sprayer manufacturers and state directions.

### TURFGRASS DISEASE CONTROL

- Use this product in a Preventative Disease Control Program.
- Apply in sufficient water to ensure thorough coverage.
- Apply after mowing or allow sprayed area to completely dry before mowing.
- For control of foliar diseases, allow sprayed area to completely dry before irrigation.
- For optimum turf quality and disease control, use this product in conjunction with turf management practices that promote good plant health and optimum disease control.
- Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
- Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.

Use Rate			
Diseases Controlled Pathogen(s)	Application Interval (days)	Rate fl. oz. product/1000 sq. ft.	Instructions
<b>Dollar Spot</b> <i>Sclerotinia homeocarpa</i> <i>Lanzia spp.</i> <i>Moellerodiscus spp.</i>	14	0.5 (0.017 lb a.i.)	Apply as a preventative disease program, starting when conditions become favorable for disease. For broad spectrum disease control or for control greater than 14 days, tank mix with the labeled rate of another fungicide labeled for control of this disease.
<b>Leaf spot, Melting-out, Brown blight</b> <i>Drechslera spp.</i> (including <i>D. poae</i> , <i>D. siccans</i> )	14	0.5 (0.017 lb a.i.)	Apply when conditions become favorable for disease. For broad spectrum disease control, tank mix with the labeled rate of another fungicide labeled for control of these diseases.
<b>Brown patch Large patch</b> <i>Rhizoctonia solani</i>	14	0.5 (0.017 lb a.i.)	Begin applications in May or June before disease is present for Brown patch. To control Large patch, apply in fall when temperature drops below 70°F. For broad spectrum control or for control greater than 14 days, tank mix with the labeled rate of another fungicide labeled for control of these diseases.
<b>Red Thread</b> <i>Laetisaria fuciformis</i>	14	0.5 (0.017 lb a.i.)	Apply when conditions become favorable for disease.
<b>Anthracnose</b> <i>Colletotrichum cereal</i>	14	0.5 (0.017 lb a.i.)	Apply prior to infection. Alternate or tank mix Soteria with another fungicide for anthracnose disease prevention. Tank mix with the labeled rate of another fungicide labeled for control of this disease.
<b>Gray Snow Mold</b> <i>Typhula spp.</i> <b>Pink Snow Mold</b> <i>Microdochium nivale</i>	Late Fall	0.5 (0.017 lb a.i.)	Apply one to two applications in the late fall before snow cover. Do not apply on top of the snow. For optimum disease control, tank mix with the labeled rate of another fungicide labeled for control of these diseases.
<b>Pink patch</b> <i>Microdochium nivale</i>	14	0.5 (0.017 lb a.i.)	Apply in the fall or early spring when conditions are favorable for disease development. For optimum disease control, tank mix with the labeled rate of another fungicide labeled for control of this.
<b>Stem rust</b> <i>Puccinia graminis</i> <i>var. graminicola</i>	14	0.5 (0.017 lb a.i.)	Apply on a preventative schedule when disease conditions are favorable (cool and cloudy weather).
<b>Algal scum</b> (filamentous blue-green algae/cyanobacteria)	14	0.5 (0.017 lb a.i.)	Tank mix Soteria with another fungicide labeled for control of this disease, including Junction WSP (EPA Reg. No. 67690-59).

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool dry place. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose in a manner consistent with the pesticide disposal instructions.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Nonrefillable Container Handling (rigid, 5 gallons or less):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, treatment area, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times. Then offer for recycling (if available) or reconditioning, 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.

**Nonrefillable Container Handling (rigid, larger than 5 gal):** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 rinsate into application equipment or a mix tank, treatment area, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling (if available) or reconditioning, 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.

**Warranty Disclaimer:** SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

**Misuse:** Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

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