

SIVORATM SPC



Contains flutriafol, the active ingredient used in TopGuard® Fungicide.

For use on Grapes (fresh, juice, table, wine, raisin); Hops, Pome Fruit
(apple, crabapple, loquat, Mayhaw, pear, oriental pear, quince); and Stone Fruit.

ACTIVE INGREDIENT:	(% by weight)
*Flutriafol	11.8%
OTHER INGREDIENTS:	88.2%
TOTAL	100.0%

*Contains 1.04 pounds per gallon of the active ingredient flutriafol.
Suspension concentrate.

EPA Reg. No.: 91234-385

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.)

See below for additional Precautionary Statements.

FIRST AID	
If swallowed:	• Call a poison control center or doctor immediately 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 on skin or clothing:	• 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 in eyes:	• 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.
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 SafetyCall at 1-844-685-9173 for emergency medical treatment information.	
NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.	

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

SivoraTM SPC is not manufactured, or distributed by FMC Corporation, seller of TopGuard® Fungicide.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and all other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks
- Protective eyewear

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.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft 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.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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.

ENVIRONMENTAL HAZARDS

This formulated product is toxic to fish and aquatic invertebrates. **DO NOT** apply directly to water, or 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.

Ground Water Advisory: Flutriafol has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. **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 agency responsible for pesticide regulation.

Not for sale, distribution, or use in Nassau or Suffolk Counties of New York State.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI). The REI for each crop is located in the use directions for each crop. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil or water, is:

- Coveralls,
- Chemical-resistant gloves,
- Shoes plus socks

PRODUCT DIRECTIONS

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Not for use in greenhouses.

CHEMIGATION

Application through Irrigation Systems (Chemigation)

Apply **Sivora SPC** through irrigation to crops at rates and timings specified in this label. Chemical tank and injector system must be thoroughly cleaned before and after use. Flush system with clean water.

Drip Irrigation

Use **Sivora SPC** for control of diseases at rates and timing as specified in this label. Ensure adequate soil moisture prior to utilizing **Sivora SPC** in a drip irrigation system. **DO NOT** apply **Sivora SPC** through drip irrigation that is deeper than 12" below the soil surface.

Discontinue drip irrigation application at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. Delay subsequent irrigation (water only) for at least 24 hours following drip application for best results.

Sprinkler Irrigation:

Apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, micro sprinkler or hand move irrigation systems. **DO NOT** apply this product through any other type of irrigation system except as specified on this label.

With Center Pivot irrigation equipment, use **Sivora SPC** only with equipment with drive systems that provide uniform water distribution. **DO NOT** use end guns for chemigation due to the non-uniform application pattern.

Add **Sivora SPC** to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. Maintain agitation during the entire application period.

For continuous-move irrigation systems, apply the labeled rate for that crop in 1/2 acre-inch or less per acre. For stationary or non-continuous moving systems, inject **Sivora SPC** spray mixture during the last 20 - 30 minutes of the set.

DO NOT apply when winds are greater than 10 - 15 mph to avoid drift or wind skips. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Thorough coverage of foliage is required for good control.

If you have questions about calibration you must contact a State Extension Service specialist, equipment manufacturer or other expert.

Operating Requirements for Application through Irrigation Systems:

1. **DO NOT** use chemigation when conditions are favorable for drift to non-target areas.
2. To prevent water-source contamination from backflow, a functional check valve, vacuum relief valve, and low-pressure drain must be located on the irrigation pipeline.
3. To prevent backflow back toward the injection pump, the pesticide injection pipeline must be equipped with a functional, automatic, quick-closing check valve.
4. To prevent fluid from being withdrawn from the supply tank when the irrigation system is shut down, the pesticide injection pipeline must also be equipped with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock.
5. The system must also contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops and a functional pressure switch to stop the pump motor when water pressure decreases to a point at which pesticide distribution is adversely affected.
6. A metering pump, constructed of materials compatible with pesticides and capable of being fitted with a system interlock, including a positive displacement injection pump (e.g., a diaphragm pump), must be included in the system.
7. A knowledgeable person responsible for the chemigation system must shut the system down and turn the irrigation water off, ensuring enough time for the pesticide to be flushed through all lines and nozzles.
8. No irrigation system, including those in greenhouses, used to distribute pesticides can be connected to a public water source unless safety measures and devices prescribed in the pesticide label for such connection are in place.

Specific Instructions for Public Water Systems:

1. Public water system means a system that provides piped water for human consumption if the system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. All measures and devices listed in the **Operating Requirements for Application through Irrigation Systems**, section must be operational for connection to a public water system.
3. Additionally, chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There must be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Rainfastness: **Sivora SPC** is rainfast 2 hours after application. Disease control will be reduced if rainfall occurs within 2 hours of application.

CROP ROTATION

Fields treated with **Sivora SPC** may be planted to the following crops and plant back intervals:

Crop	Plant back Interval
Alfalfa, barley, field corn; field corn grown for seed; popcorn; sweet corn; cotton; cucurbits; fruiting vegetables; grapes; hops; Brassica leafy vegetables crop group 5; leafy vegetables, except Brassica, crop group 4; peanut; pome fruit; grain sorghum; soybean; stone fruit; strawberry; sugar beet; tomato; tree nuts; triticale; or wheat	Immediately
Rice	30 days
All other crops	Prohibited

RATE EQUIVALENCY TABLE

Product Rate (Fl. Oz./A)	Equivalent Active Ingredient Rate (Lb. a.i./A)
7	0.057
8	0.065
10	0.081
12	0.098
13	0.106
14	0.114
16	0.130
24	0.20
30	0.24
32	0.26
48	0.39

COMPATIBILITY JAR TEST

Sivora SPC is compatible with most products, however not all combinations have been tested. Use the following compatibility jar test to ensure physical compatibility.

Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add wettable powders and water dispersible granular products first, next liquid flowables, then emulsifiable concentrates, and last liquid soluble products. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank. Use tank mix combinations on a small number of plants before treating larger areas. When tank mixing, follow more restrictive labeling of any tank mix partner. **DO NOT** tank mix with any product that contains a prohibition on tank mixing.

USE OF ADJUVANTS

An adjuvant may be used with **Sivora SPC** unless otherwise specified in the crop use directions. **Sivora SPC** is compatible with most products, however not all have been tested. Use the compatibility jar test to ensure physical compatibility.

TANK MIXING

Sivora SPC may be tank mixed with other fungicides, herbicides, insecticides, and/or other additives unless prohibited on the label of the tank mix partner. Follow more restrictive labeling of any tank mix partner. Although **Sivora SPC** is compatible with most products, not all combinations have been tested. Use the compatibility jar test to ensure physical compatibility. Before applying any tank mixture not specified on this label, the crop safety of the target crop must be confirmed by applying the mixture to a small area of the target crop in accordance with the label instructions. 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.

SPRAY EQUIPMENT/VOLUME

Sivora SPC must be applied in sufficient water volume to ensure thorough coverage as a broadcast foliar application for good disease control.

For ground application, use a minimum of 10 gallons of spray solution per acre by ground sprayer. For aerial application, use aircraft spray equipment in a minimum of 5 gallons of spray solution per acre.

High Disease Pressure: Where a range is given, use the higher rate of **Sivora SPC** and/or reduced spray interval when disease pressure is high and/or conditions are favorable for disease development.

RESISTANCE MANAGEMENT

For resistance management, **Sivora SPC** contains a Group 3 fungicide (Flutriafol.) Any fungal population may contain individuals naturally resistant to **Sivora SPC** and other Group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies must be followed.

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

- Rotate the use of **Sivora SPC** or other Group 3 fungicides within a growing season sequence 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 crop rotation, 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 certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For resistance management information or to report suspected resistance contact your pesticide distributor or university extension specialist to report resistance.

CROP USE DIRECTIONS

GRAPES

(fresh, juice, table, wine, raisin)

Diseases	Product Rate (Fl. Oz./A)	Application Directions	Application Interval (Days)
Powdery Mildew (<i>Uncinula necator</i>)	8 - 10 (0.065 - 0.081 lb. a.i.)	Apply Sivora SPC as a foliar spray beginning at 6 to 10 inch shoots.	14 to 21
Black Rot (<i>Guignardia bidwellii</i>)	8 - 10 (0.065 - 0.081 lb. a.i.)	Apply preventatively or when conditions are favorable for disease development. Repeat as necessary if conditions are favorable for disease development.	

Restrictions:

- No single application may exceed 10 fl. oz. (0.081 lb. a.i.) of product per acre.
- **Minimum Retreatment Interval (RTI):** 14 days.
- **DO NOT** apply more than 6 applications of product per year.
- **DO NOT** apply more than 60 fl. oz. (0.488 lb. a.i.) of product per acre per year.
- **DO NOT** apply more than 0.488 lb. ai of flutriafol per acre per year.
- **Restricted-Entry Interval (REI):**
 - The REI for girdling or turning of grapes: 5 days.
 - The REI for all other activities is 12 hours.
- **Preharvest Interval (PHI): DO NOT** apply within 14 days of harvest.

HOPS

Diseases	Product Rate (Fl. Oz./A)	Application Directions	Application Interval (Days)
Powdery Mildew (<i>Podosphaera macularis</i> , <i>Sphaerotheca macularis</i>)	10 - 14 (0.081 - 0.114 lb. a.i.)	Apply preventatively or when conditions are favorable for disease development. Repeat as necessary if conditions are favorable for disease development. Apply a minimum of 30 gallons per acre spray volume for ground applications and 10 gallons per acre for aerial applications.	14

Restrictions:

- No single application may exceed 14 fl. oz. (0.114 lb. a.i.) of product per acre.
- **Minimum Retreatment Interval (RTI):** 14 days.
- **DO NOT** apply more than 4 applications per year.
- **DO NOT** apply more than 56 fl. oz. (0.455 lb. a.i.) of product per acre per year.
- **DO NOT** apply more than 0.455 lb. ai per acre per year.
- An adjuvant may be used with **Sivora SPC**.
- **Restricted-Entry Interval (REI):** 12 hours.
- **Preharvest Interval (PHI): DO NOT** apply within 7 days of harvest.

POME FRUIT

Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, and Quince

Diseases	Product Rate (Fl. Oz./A)	Application Directions	Application Interval (Days)
Powdery Mildew (<i>Podosphaera leucotricha</i>) Quince Rust (<i>Gymnosporangium clavipes</i>) Cedar Apple Rust (<i>Gymnosporangium juniperi-virginianae</i>) Brooks Fruit Spot (<i>Mycosphaerella pomi</i>)	8 - 12 (0.065 - 0.098 lb. a.i.)	Initiate applications at green tip and continue through cover sprays.	10
Apple Scab (<i>Venturia inaequalis</i>) Sooty Blotch (<i>Gloeodes pomigena</i>) Bot rot or White rot (<i>Botryosphaeria dothidea</i>) Black Rot (<i>Botryosphaeria obtusa</i>) Bitter Rot (<i>Colletotrichum gloeosporioides</i> , <i>C. acutatum</i>) Alternaria Blotch (<i>Alternaria mali</i>)	13 (0.106 lb. a.i.)	Initiate applications at green tip or when environmental conditions are favorable for primary scab development. Continue applications through the duration of primary scab. Mix Sivora SPC with a protectant for example mancozeb for scab control. Tank mix applications containing Sivora SPC with a protectant for example mancozeb will also effectively control listed summer rots when applied at cover spray timings.	7 - 10
Pear Scab (<i>Venturia pirina</i>)		Start application at Pink Bud and continue through the duration of the Primary Scab period. Mix Sivora SPC with a protectant for example mancozeb for improved scab control.	
Restrictions: - No single application may exceed 13 fl. oz. (0.106 lb. a.i.) of product per acre. Minimum Retreatment Interval (RTI): 7 days. DO NOT apply more than 4 applications per year. DO NOT apply more than 52 fl. oz. (0.423 lb. a.i.) of product per acre per year. DO NOT apply more than 0.423 lb. ai per acre per year. Restricted-Entry Interval (REI): 12 hours. Preharvest Interval (PHI): DO NOT apply within 14 days of harvest.			

STONE FRUIT

Apricot, Nectarine, Sweet Cherry, Tart Cherry, Peach, Plum, Chicksaw Plum, Damson Plum, Japanese Plum, Plumcot, Prune.

Diseases	Product Rate (Fl. Oz./A)	Application Directions	Application Interval (Days)
Powdery Mildew (<i>Podosphaera clandestina</i>)	14 (0.114 lb. a.i.)	Start applications at petal fall. Repeat as necessary if disease conditions are favorable for disease development.	7
Brown Rot Blossom Blight (<i>Monilinia fructicola</i>)	14 (0.114 lb. a.i.)	Start applications at 1 - 5% bloom followed by an application at 50 - 100% bloom.	7
Fruit Brown Rot (<i>Monilinia fructicola</i>)	14 (0.114 lb. a.i.)	Apply one to two weeks prior to harvest.	7
Cherry Leaf Spot (<i>Blumeriella jaapii</i>)	14 (0.114 lb. a.i.)	Start applications at petal fall. Repeat as necessary if disease conditions are favorable for disease development. In areas of known triazole resistance, apply Sivora SPC with a protectant fungicide for control.	7

Restrictions:

- No single application may exceed 14 fl. oz. (0.114 lb. a.i.) of product per acre.
- **Minimum Retreatment Interval (RTI):** 7 days.
- **DO NOT** apply more than 4 applications per year.
- **DO NOT** apply more than 56 fl. oz. (0.455 lb. a.i.) of product per acre per year.
- **DO NOT** apply more than 0.455 lb. ai per acre per year.
- **Restricted-Entry Interval (REI):** 12 hours.
- **Preharvest Interval (PHI): DO NOT** apply within 7 days of harvest.

SPECIMEN

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used must be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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.

CONTAINER HANDLING:

For plastic containers ≤ 5 gallons: Nonrefillable Container: 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

For plastic containers > 5 gallons: Nonrefillable container: 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 1/4 full with water. Recap 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 or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

Sivora™ is a trademark of Atticus, LLC.

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