

264-1027

10/11/2011

10/17



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Melvin K. Tolliver  
Registration Product Manager, Fungicides  
Bayer CropScience  
2 T. W. Alexander Drive  
P.O. Box 12014  
RTP, NC 27709

OCT 11 2011

Subject: Distinguish 480 SC Fungicide  
EPA Registration No. 264-1027  
Your Amendment dated April 26, 2011  
Decision No. 448814

Dear Mr. Tolliver:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. On page 4, revise the heading from "General Information" to "Product Information"
2. On page 4, under the "General Information" section, 3<sup>rd</sup> paragraph, last sentence, place a space between the phrase "tankmixed" so that the sentence reads "DISTINGUISH 480 SC FUNGICIDE must not be alternated or tank mixed with fungicide to which resistance has already developed."

One copy of the label stamped "Accepted with comments" is enclosed for your records. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment. If you have any questions, please contact Tamue L. Gibson by phone at (703) 305-9096 or via email at [gibson.tamue@epa.gov](mailto:gibson.tamue@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

Mary L. Waller  
Product Manager 21  
Fungicide Branch  
Registration Division (7504P)

Enclosure



2017

GROUP 9 11 FUNGICIDE

# DISTINGUISH™ 480 SC Fungicide

For Use On: Almonds, Grapes, Pistachios, Pome Fruits, Potatoes, Stone Fruits (Except Cherries), Strawberries, and Tomatoes

ACCEPTED  
10/11/2011  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 264-1027

|  |        |  |
|--|--------|--|
| <b>ACTIVE INGREDIENT:</b>  |        |  |
| Pyrimethanil: .....  | 38.8 % |  |
| Trifloxystrobin:.....  | 5.4%   |  |
| <b>OTHER INGREDIENTS:</b> .....  | 55.8 % |  |
| Contains 3.51 pounds of pyrimethanil and 0.49 pounds of trifloxystrobin per gallon. <b>TOTAL:100.0 %</b> |        |  |

EPA Reg. No. 264-1027 EPA Est. No.:

## KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577  
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

### 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>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>IF IN EYES</b>              | <ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</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>  |

**For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.**

**Have the product container or label with you when calling a poison control center or doctor or going for treatment.**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.



**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Mixer/Loaders, applicators and other handlers of this product must wear long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves made of any waterproof material.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

**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 breakdown.

**User Safety Recommendations**

- Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 pesticide 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. Drift or run-off from treated areas is hazardous to fish and aquatic invertebrates in neighboring areas.

**Ground Water Advisory**

Several trifloxystrobin degradates have properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

**DIRECTIONS FOR USE**

**It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Read entire label before using this product.**

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.



**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker 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 of 12 hours.

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, such as plants, soil, or water, is: long-sleeved shirt and long pants, and shoes plus socks.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Store in original container and keep tightly closed. Store in a cool dry area.

**PESTICIDE DISPOSAL**

Pesticide wastes may be toxic. 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.

**CONTAINER DISPOSAL**

Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure 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  $\frac{1}{4}$  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.

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

Offer for recycling, if available. If not recycled, then 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.



**GENERAL INFORMATION**

**DO NOT APPLY BY AERIAL APPLICATION IN NEW YORK STATE.**

DISTINGUISH 480 SC FUNGICIDE is a sprayable, foliar fungicide for control of certain plant diseases on: almonds, pistachios, potatoes and strawberries. See crop-specific directions for a complete list of all crops approved for use. Use of DISTINGUISH 480 SC FUNGICIDE should be integrated into an overall disease, pest management, or IPM program. DISTINGUISH 480 SC FUNGICIDE may be used with disease forecasting or Extension advisory programs that recommend application timings based on environmental factors favorable to disease development. Consult with your local agricultural authorities for IPM strategies established for your area.

The higher rates in the rate range or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease-conducive environmental conditions exist. **FAILURE TO FOLLOW THE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN ILLEGAL RESIDUES, POOR DISEASE CONTROL, AND/OR CROP INJURY.** Applications may be made at the longer spray intervals under low to moderate disease pressure.

**FUNGICIDE RESISTANCE STATEMENT**

DISTINGUISH 480 SC FUNGICIDE contains an anilinopyrimidine (AP) fungicide (pyrimethanil) and a Qol fungicide (trifloxystrobin). DISTINGUISH 480 SC FUNGICIDE inhibits respiration and inhibits or interferes with the secretion of enzymes necessary for infection in several plant pathogenic fungal species. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Pyrimethanil may exhibit cross-resistance in certain plant-pathogenic fungi to other fungicides of Group 9, which include compounds such as cyprodinil. The Qol fungicide exhibits cross-resistance to other Qol fungicides such as azoxystrobin and kresoxim-methyl. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Bayer CropScience encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

**When applying DISTINGUISH 480 SC FUNGICIDE alone on any crop, do not make more than two consecutive applications of DISTINGUISH 480 SC FUNGICIDE without alternating to an equal number of applications of a fungicide from a different resistance management group. DISTINGUISH 480 SC FUNGICIDE must not be alternated or tankmixed with any fungicide to which resistance has already developed.**

**HOW TO USE DISTINGUISH 480 SC FUNGICIDE FUNGICIDE**

**Ground Application**

Apply in a minimum of 50 gallons of water per acre for tree crops and 15 gallons of water per acre for field and vegetable crops. Thorough and uniform coverage is essential for effective disease control.

**Aerial Application**

Apply DISTINGUISH 480 SC FUNGICIDE using fixed-wing or rotary aircraft equipment in a minimum of 15 gallons of water per acre for tree crops and 5 gallons of water per acre for field and vegetable crops. Thorough and uniform coverage is essential for effective disease control.

**Restriction:** Do not apply this product in greenhouses.



**Mixing Instructions**

Prepare no more spray mixture than is needed for immediate operation. Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding the required amount of DISTINGUISH 480 SC FUNGICIDE. Continue agitation while filling the tank to ensure thorough mixing. Maintain agitation during application and apply with properly calibrated application equipment. DISTINGUISH 480 SC FUNGICIDE should be added to the tank before the addition of any adjuvant. A high quality spreader/sticker, approved for use on growing crops, may be used with DISTINGUISH 480 SC FUNGICIDE. Consult the adjuvant label or manufacturer for crop tolerance and safety information when used with DISTINGUISH 480 SC FUNGICIDE. Do not allow spray mixture to stand overnight or for prolonged periods.

**Compatibility**

DISTINGUISH 480 SC FUNGICIDE is compatible with most commonly used fungicide (except Captan 50 WP at <10 gallons spray volume per acre), herbicide, insecticide, and foliar nutrient products. However, the physical compatibility of DISTINGUISH 480 SC FUNGICIDE with all potential tankmix partners has not been fully investigated. If tankmixing with other pesticides is desirable, conduct a jar test with the volumes and rates typically used in agricultural application. Using a small container of water, add the proportionate amounts of the products: wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 15 minutes. Look for signs of separation, globules, sludge, flakes, or other precipitates. Physical compatibility is indicated if the combination remains mixed or can be remixed readily. THE CROP SAFETY OF ALL POTENTIAL TANK MIXES WITH DISTINGUISH, INCLUDING ADDITIVES AND OTHER PESTICIDES, HAS NOT BEEN TESTED ON ALL CROPS. BEFORE APPLYING ANY TANK MIXTURE, SAFETY TO THE TARGET CROP(S) SHOULD BE CONFIRMED. This product cannot be mixed with any product containing a label prohibition against such mixing. Follow the most restrictive label limitations and precautions.

**Rotational Crop Restriction**

Crops on this label may be rotated anytime following the last application of DISTINGUISH 480 SC FUNGICIDE. Do not rotate to other crops for 30 days following the last application of DISTINGUISH 480 SC FUNGICIDE.

**SPRAY DRIFT**

**SENSITIVE AREAS:** This pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitats for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

The interaction of many equipment and weather-related factors determine the potential for spray drift.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.



**INFORMATION ON DROPLET SIZE:** (This section is advisory in nature and does not supersede the mandatory label requirements).

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions below).

**CONTROLLING DROPLET SIZE:** (This section is advisory in nature and does not supersede the mandatory label requirements).

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher-rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**BOOM LENGTH:** (This section is advisory in nature and does not supersede the mandatory label requirements).

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**APPLICATION HEIGHT:** (This section is advisory in nature and does not supersede the mandatory label requirements).

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**SWATH ADJUSTMENT:** (This section is advisory in nature and does not supersede the mandatory label requirements).

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.)

**WIND:** (This section is advisory in nature and does not supersede the mandatory label requirements).

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.



**TEMPERATURE AND HUMIDITY:** (This section is advisory in nature and does not supersede the mandatory label requirements).

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**TEMPERATURE INVERSIONS:** (This section is advisory in nature and does not supersede the mandatory label requirements)

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS**

Apply this product only through the following sprinkler irrigation systems: microjet, solid set, wheel lines and center pivot. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

For specific information about calibration, contact State Extension Service Specialists, equipment manufacturers or other irrigation experts.

**SPRAY PREPARATION:** Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

**APPLICATION INSTRUCTIONS:** First prepare a suspension of DISTINGUISH 480 SC FUNGICIDE in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of DISTINGUISH 480 SC FUNGICIDE and then the remaining volume of water. Then set sprinkler to deliver no more than 0.4 inch of water per acre. Start sprinkler and uniformly inject the suspension of DISTINGUISH 480 SC FUNGICIDE into the irrigation water line so as to deliver the desired rate per acre. The suspension of DISTINGUISH 480 SC FUNGICIDE must be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

**NOTE:** When treatment with DISTINGUISH 480 SC FUNGICIDE has been completed, further field irrigation over the treated area should be avoided for 24 hours to prevent washing the chemical off the crop.



## GENERAL PRECAUTIONS FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS

Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. If you are unsure of wind conditions, contact your local extension agent.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label prescribed safety devices for public water supplies are in place.



ALMONDS

| Disease Control   | Rate (fl. oz./acre) | Application Timing   | Notes   |
|---|---------------------|--|---|
| Brown Rot<br>Blossom Blight<br><i>(Monilinia laxa, M. fructicola)</i><br><br>Jacket Rot/Green Fruit Rot<br><i>(Botrytis cinerea)</i>  | 12.8 to 26          | Begin applications when conditions are favorable for diseases but before infection. Apply on a 7- to 14-day spray schedule.<br><br>For Brown Rot Blossom Blight, begin applications at pink bud stage (about 5% bloom). If conditions are conducive for disease development, apply again at full bloom and at petal fall, or on a 7- to 14-day spray schedule. | Use higher rates and shorter intervals when disease pressure is severe. |
| Alternaria Late Blight<br><i>(Alternaria alternata)</i><br><br>Anthracnose<br><i>(Colletotrichum acutatum)</i><br><br>Rust<br><i>(Tranzschelia discolor)</i><br><br>Shot Hole<br><i>(Wilsonomyces carpophilus)</i><br><br>Scab<br><i>(Cladosporium carpophilum)</i> | 18 to 26            |  |   |

**Restrictions:** Do not apply more than 78 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 3 total applications of DISTINGUISH 480 SC FUNGICIDE per season. Do not apply DISTINGUISH 480 SC FUNGICIDE within 60 days of harvest or after hull split. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other QoI-containing fungicides.



GRAPES

| Disease Control                                | Rate (fl. oz./acre) | Application Timing   | Notes   |
|--|---------------------|--|---|
| Powdery Mildew ( <i>Uncinula necator</i> )     | 12.8                | Begin applications when conditions are favorable for diseases but before infection. Apply on a 14-day spray schedule.  | Use higher rates and shorter intervals when disease pressure is severe. |
|  | 18                  | Begin applications when conditions are favorable for diseases but before infection. Apply on a 14- to 21-day spray schedule.   |   |
| Botrytis Bunch Rot ( <i>Botrytis cinerea</i> ) | 12.8 to 26          | For Botrytis bunch rot, make applications at the critical timings for <i>Botrytis</i> control. Typically, first applications are made at early bloom, and/or berry touch to bunch closure, veraison, and pre-harvest. Use sufficient water to ensure penetration of the canopy and coverage of the flowers or bunches. Continue on a 14- to 21-day spray schedule. |   |

**Restrictions:** Do not apply DISTINGUISH 480 SC FUNGICIDE to concord grapes or crop injury may occur. Do not apply more than 52 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 4 total applications of DISTINGUISH 480 SC FUNGICIDE per season. No adjuvants may be added to spray mixture. Do not apply DISTINGUISH 480 SC FUNGICIDE within 14 days of harvest. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other QoI-containing fungicides.



PISTACHIOS

| Disease Control  | Rate (fl. oz./acre) | Application Timing   | Notes   |
|--|---------------------|--|---|
| Blossom & Shoot Blight<br>( <i>Botrytis cinerea</i> )  | 12.8 to 26          | Begin applications when conditions are favorable for disease but before infection. Apply on a 7- to 14-day spray schedule.   | Use higher rates and shorter intervals when disease pressure is severe. |
| Panicle & Shoot Blight<br>( <i>Botryosphaeria dothidea</i> )<br><br>Septoria Leaf Spot<br>( <i>Septoria pistaciarum</i> )<br><br>Alternaria Late Blight<br>( <i>Alternaria alternata</i> )   | 18 to 26            | Begin applications when conditions are favorable for diseases but before infection. Apply on a 14- to 21-day spray schedule. |   |
| <p><b>Restrictions:</b> Do not apply more than 78 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 4 total applications of DISTINGUISH 480 SC FUNGICIDE per season. Do not apply DISTINGUISH 480 SC FUNGICIDE within 60 days of harvest. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other QoI-containing fungicides.</p> |                     |  |   |



## POME FRUITS

| Crops: Apples, Pears, Crabapples, Loquat, Mayhaw, Quince   |                           |   |  |
|--|---------------------------|---|--|
| Disease Control  | Rate<br>(fl.<br>oz./acre) | Application Timing  | Notes  |
| Scab ( <i>Venturia</i><br>spp.)  | 7 to 14.2                 | Begin applications at green tip and continue as needed on a 7- to 10-day spray schedule.  | Use higher rates and shorter intervals when disease pressure is severe.  |
| Cedar-Apple Rust<br>( <i>Gymnosporangium</i><br><i>juniperi-virginianae</i> )  | 14.2                      | Begin applications at green tip and continue as needed on a 7- to 10-day spray schedule.  | Use shorter intervals when disease pressure is severe.<br><br>Alternate (every other application) with a sterol inhibitor fungicide or another non- QoI fungicide labeled for control of cedar-apple rust. |
| Powdery Mildew<br>( <i>Podosphaera</i><br><i>leucotricha</i> )   | 14.2                      | Begin applications at green tip and continue as needed on a 10- to 14-day spray schedule. | Use shorter intervals when disease pressure is severe.<br><br>Alternate (every other application) with a sterol inhibitor fungicide or another non- QoI fungicide labeled for control of powdery mildew.   |
| Sooty Blotch<br>( <i>Gloeodes</i><br><i>pomigena</i> )<br><br>Fly Speck<br>( <i>Schizothyrium</i><br><i>pomi</i> )   | 14.2                      | Begin applications at green tip and continue as needed on a 10- to 14-day spray schedule. | Use shorter intervals when disease pressure is severe.   |
| <b>Restrictions:</b> Do not apply more than 57 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 4 total applications of DISTINGUISH 480 SC FUNGICIDE per season. No adjuvants may be added to spray mixture. Do not apply DISTINGUISH 480 SC FUNGICIDE within 72 days of harvest. Do not apply DISTINGUISH 480 SC FUNGICIDE where spray drift may reach Concord grapes or crop injury may occur. Spray equipment should be rinsed after applying DISTINGUISH 480 SC FUNGICIDE before application of other products to Concord grapes or crop injury may occur. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other QoI-containing fungicides. |                           |   |  |



POTATOES

| Disease Control   | Rate (fl. oz./acre) | Application Timing  | Notes   |
|---|---------------------|---|---|
| Early Blight ( <i>Alternaria solani</i> )<br><br>Botrytis Leaf Spot ( <i>Botrytis cinerea</i> )<br><br>Brown Spot ( <i>Alternaria alternata</i> ) | 10                  | Begin applications when conditions are favorable for diseases but before infection. Apply on a 7- to 14-day spray schedule. | Use higher rates and shorter intervals when disease pressure is severe. |

**Restrictions:** Do not apply more than 50 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 5 total applications of DISTINGUISH 480 SC FUNGICIDE per season. Do not apply DISTINGUISH 480 SC FUNGICIDE within 7 days of harvest. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not make more than one foliar application of DISTINGUISH 480 SC FUNGICIDE for foliar diseases before alternating to a labeled, effective non-QoI fungicide with a different mode of action for at least one application.



**STONE FRUITS  
(Except Cherries)**

**Crops:** apricot, nectarine, peach, plum (all varieties), Chickasaw plum, Damson plum, Japanese plum, Stanley plum, plumcot, prune (fresh)

| Disease Control  | Rate (fl. oz./acre) | Application Timing  | Notes  |
|--|---------------------|---|--|
| <p>Brown Rot<br/>Blossom Blight<br/>(<i>Monilinia laxa</i>,<br/><i>M. fructicola</i>)</p> <p>Jacket<br/>Rot/Green Fruit<br/>Rot<br/>(<i>Botrytis cinerea</i>)</p> <p>Shot Hole<br/>(<i>Wilsonomyces carpophilus</i>)</p> <p>Powdery<br/>Mildew<br/>(<i>Podosphaera</i><br/>spp.,<br/><i>Sphaerotheca pannosa</i>)</p> <p>Scab<br/>(<i>Cladosporium carpophilum</i>)</p> <p>Cherry Leaf<br/>Spot<br/>(<i>Blumeriella jaapii</i>)</p> <p>Rust<br/>(<i>Tranzschelia discolor</i>)</p> | <p>18 to 26</p>     | <p>Begin applications when conditions are favorable for diseases but before infection. Apply on a 7- to 14-day spray schedule.</p> <p>For Brown Rot Blossom Blight, begin applications at bud stage (about 5% bloom). If conditions are conducive for disease development, apply again at full bloom and at petal fall, or on a 7- to 14-day spray schedule.</p> <p>For Cherry Leaf Spot, Powdery Mildew, and Scab, begin applications preventively. Apply at petal fall and continue on a 7- to 14-day spray schedule.</p> | <p>Use higher rates and shorter intervals when disease pressure is severe.</p> |

**Restrictions:** Do not apply more than 78 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 4 total applications of DISTINGUISH 480 SC FUNGICIDE per season. No adjuvants may be added to spray mixture. Do not apply DISTINGUISH 480 SC FUNGICIDE within 2 days of harvest. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other QoI-containing fungicides.  
**Do not use on cherries.**



**STRAWBERRIES**

| Disease Control   | Rate (fl. oz./acre) | Application Timing  | Notes   |
|---|---------------------|---|---|
| Gray Mold ( <i>Botrytis cinerea</i> )<br><br>Powdery Mildew ( <i>Sphaerotheca maculans</i> )<br><br>Anthracnose (suppression) ( <i>Colletotrichum acutatum</i> )<br><br>Phomopsis Leaf Blight and Soft Rot (suppression) ( <i>Phomopsis obscurans</i> ) | 16 to 26            | Begin applications when conditions are favorable for diseases but before infection. Apply on a 7- to 14-day spray schedule. | Use higher rates and shorter intervals when disease pressure is severe. |

**Restrictions:** Do not apply more than 78 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 3 total applications of DISTINGUISH 480 SC FUNGICIDE per season. Do not apply DISTINGUISH 480 SC FUNGICIDE within 1 day of harvest. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 11 and a Group 9 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other strobilurin-containing fungicides.

**TOMATOES**

| Disease Control  | Rate (fl. oz./acre) | Application Timing   | Notes   |
|--|---------------------|--|---|
| Early Blight ( <i>Alternaria solani</i> )<br><br>Gray Mold ( <i>Botrytis cinerea</i> ) | 10                  | Begin applications when conditions are favorable for diseases but before infection. Apply on a 7 to 14-day spray schedule. | Use higher rates and shorter intervals when disease pressure is severe. |

**Restrictions:** Do not apply more than 50 fl. oz. of DISTINGUISH 480 SC FUNGICIDE per acre per season. Do not make more than 5 total applications of DISTINGUISH 480 SC FUNGICIDE per season. No adjuvants may be added to spray mixture. Do not apply DISTINGUISH 480 SC FUNGICIDE within 3 days of harvest. DISTINGUISH 480 SC FUNGICIDE is a mixture of a Group 9 and 11 fungicide. To limit the potential for the development of resistance, do not apply more than 2 sequential applications of DISTINGUISH 480 SC FUNGICIDE or other QoI-containing fungicides. Applications to tomatoes grown in greenhouses are prohibited.



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**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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**NET CONTENTS: 0.5 Gallons**

**Produced for**



**Bayer CropScience**

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**DISTINGUISH™ 480 SC Fungicide (Pending) 04/26/2011**