



# Abound<sup>LM</sup>®

## **Flowable Fungicide**

*Broad spectrum fungicide for control of plant diseases*

*Active Ingredient:*

Azoxystrobin: methyl (E)-2-[2-[6-(2-cyanophenoxy)

pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate\* . . . . . 22.9%

*Other Ingredients:* . . . . . 77.1%

*Total:* . . . . . 100.0%

*Contains 2.08 lbs. of active ingredient per gallon*

*\*IUPAC*

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

*See additional precautionary statements and directions for use inside booklet.*

*Reformulation is prohibited. See individual container labels for repackaging limitations.*

*EPA Reg. No. 100-1098*

*EPA Est. 100-NE-001*

*Product of United Kingdom*

*Formulated in the USA*

**SCP 1098A-L1 0202**

**1 gallon**

U.S. Standard  
Measure



syngenta

# Abound®

FIRST AID	
If on skin or clothing	<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>NOTE TO PHYSICIAN</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>HOT LINE NUMBER</b> For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call <b>1-800-888-8372</b>	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

HARMFUL IF ABSORBED THROUGH SKIN. Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber. Wash thoroughly with soap and water after handling.

#### Personal Protective Equipment

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

#### USER SAFETY RECOMMENDATIONS

Users should:

- 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

The active ingredient, Azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify state and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, INC. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

# Abound®

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitations of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use of ABOUND Flowable Fungicide through airblast application equipment on grapes is prohibited in the following townships and boroughs of Erie County, Pennsylvania:

North East, Harborcreek, Lawrence Park, Erie, Presque Isle, MillCreek, Fairview, Girard and Springfield.

This prohibition is intended to help eliminate phytotoxicity problems with apples observed in this geographic location.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

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 USES

### 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), notification to workers, 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) of 4 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:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**STORAGE:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**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 of the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL:

**Plastic Containers:** Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

## GENERAL INFORMATION

ABOUND Flowable Fungicide is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many important plant diseases. Abound Flowable may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered, crop protection products. All applications should be made according to the use directions that follow.

## GENERAL USE PRECAUTIONS

Crops in this label may be planted immediately after last treatment. Do not plant other crops within 45 days after last application.

### ATTENTION

Abound Flowable is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray Abound Flowable where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply Abound Flowable to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

### INTEGRATED PEST (DISEASE) MANAGEMENT

Abound Flowable should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. The SPECIFIC USE DIRECTIONS section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural and turf authorities for additional IPM strategies established for your area. Abound Flowable may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

### RESISTANCE MANAGEMENT

A disease management program that includes alternation or tankmixes between Abound Flowable and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from developing resistance to Abound Flowable. Abound Flowable should not be alternated or tankmixed with fungicides to which resistance has already developed.

Continual use of Abound Flowable may allow less sensitive strains of pathogens to increase in the population and reduce the efficacy of Abound Flowable. Since Abound Flowable is a strobilurin fungicide, avoid alternation with other strobilurins, such as kresoxim-methyl and trifloxystrobin. Use of Abound in greenhouses will enhance the potential for fungicide resistance development.

Since pathogens differ in their potential to develop resistance to fungicides, the SPECIFIC USE DIRECTIONS section in this label provides resistance management strategies specific for each crop and disease. Consult your local or state agricultural authorities for resistance management strategies that are complementary to those in this label. Abound Flowable is not cross resistant with other classes of fungicides which have different modes of action.

### SPRAYING/MIXING

Abound Flowable may be applied with all types of spray equipment commonly used for making ground and aerial applications. Do not apply Abound Flowable through any type of ultra low volume (ULV) spray system. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist.

For ground applications, apply Abound Flowable in sufficient water volume for adequate coverage and canopy penetration. For aerial applications to non-orchard crops, apply Abound Flowable in a minimum of five gallons of water per acre. For aerial applications in orchard crops, apply Abound Flowable in a minimum of ten gallons of water per acre. Where feasible ground application should be used because it provides better canopy penetration and coverage.

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of Abound Flowable to the tank, allowing time for good dispersion, then add an adjuvant, if recommended. If tankmixes are required, product should be added to the spray tank in the following order: Abound Flowable, other WG or dry flowable formulations, wettable powders and flowable (aqueous suspensions) products. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application.

## SPRAY DRIFT MANAGEMENT

### ATTENTION

Abound Flowable is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray Abound Flowable where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply Abound Flowable to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat.

### Directions for Use Through Sprinkler Irrigation Systems

Spray Preparation: Chemical tank and injector system should be thoroughly cleaned. Flush system with clean water.

Application Instructions: Apply Abound Flowable at rates and timings as described in this label.

Use Precautions for Sprinkler Irrigation Applications:

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment. In general, use the least amount of water required for proper distribution and coverage. If stationary systems (solid set, handlines or wheel lines other than continuous-move) are used, this product should be injected into no more than 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 treated water. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.

If you have questions about calibration you should contact State Extension Service specialist, equipment manufacturers or other experts.

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 back-flow.

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 shut down.

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.

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, or under the supervision of the responsible person, 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 pesticide label-prescribed safety devices for public water systems are in place.

Specific Instructions for Public Water Systems:

1. "Public water system means a system for the provision to the public of piped water for human consumption if such 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. "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 should be discharged into a reservoir tank prior to pesticide introduction. There shall 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."

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3. "The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump."
4. "The pesticide injection pipeline must 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 shut down."
5. "The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected."
6. "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."
7. "Do not apply when wind speed favors drift beyond the area intended for treatment."

## TANK MIXES/COMPATIBILITY

Abound Flowable is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state agricultural or turf authorities for compatibility information. Do not combine Abound Flowable in the spray tank with pesticides, surfactants or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective and non-injurious under your conditions of use. If physical compatibility is unknown, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

## SOILBORNE/SEEDLING DISEASE CONTROL

Abound can provide control of many soilborne diseases if applied early in the growing season. Specific applications for soilborne diseases include in-furrow applications and banded applications applied over the row, either shortly after plant emergence or during herbicide applications or cultivation. These applications will provide control of pre- or post-emergence damping off and diseases that infect plants at the soil-plant interface.

For banded applications, apply Abound prior to infection as a directed spray to the soil, using single or multiple nozzles, adjusted to provide thorough coverage of the lower stems and the soil surface surrounding the plants. Band width should be limited to 7 inches or less. Apply Abound at a rate of 0.4-0.8 fl. oz. product (0.1-0.2 oz. a.i.)/1000 foot of row.

For in-furrow applications, apply Abound as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Use the higher rate when the weather conditions are expected to be conducive for disease development, if the field has a history of Pythium problems, or if minimum/low till programs are in place.

## IN-FURROW APPLICATION RATES

RATE PER 1000 ROW FEET		PRODUCT PER ACRE (fl. oz.)						
oz. product	oz. a.i.	22" rows	30" rows	32" rows	34" rows	36" rows	38" rows	40" rows
0.4	0.1	9.5	7.0	6.5	6.1	5.8	5.5	5.2
0.6	0.15	14.3	10.5	9.8	9.2	8.7	8.3	7.8

40" = 13,068 row ft, 38" = 13,754 row ft, 36" = 14,520 row ft, 34" = 15,374 row ft, 32" = 16,315 row ft, and 30" = 17,424 row ft, and 22" = 23,760 row ft/Acre

**DIRECTIONS FOR APPLICATION**

Crop	Target Diseases	Use Rate fl. oz. product/A (lbs. a.i./A)	Remarks
Almonds	Alternaria leaf and fruit spot ( <i>Alternaria alternata</i> )  Anthracnose ( <i>Colletotrichum acutatum</i> )  Leaf Blight ( <i>Seimatosporium lichenicola</i> )  Leaf rust ( <i>Tranzschelia discolor</i> )  Scab ( <i>Cladosporium carpophilum</i> )  Shothole ( <i>Wilsonomyces carpophilus</i> )	11.1 - 15.4 (0.18 - 0.25)	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and proper timing and placement of irrigation.</p> <p><b>Resistance Management:</b> For blossom blight do not apply more than two sequential applications of Abound before alternating with a fungicide that has a different mode of action. For all other almond diseases do not apply more than three sequential applications of Abound before alternation with a fungicide that has a different mode of action. Do not make more than four (4) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air (minimum 15 gpa) or chemigation. Abound may be applied by air only at growth stages prior to and including 5 weeks after petal fall. An adjuvant may be added at recommended rates.</p> <p>For blossom blight begin applications at early bloom and continue through petal fall. For anthracnose, scab and shothole begin applications prior to disease development and continue at 7-14 day intervals throughout the season.</p>
	Brown Rot Blossom Blight ( <i>Monilinia laxa, M. fructicola</i> )	12.3 - 15.4 (0.2 - 0.25)	Do not apply more than 1.92 quarts product/acre/season (1.0 lb. a.i./A). Do not apply within 28 days of harvest.
Apricots	See Stone Fruit		
Bananas Plantains	Black Sigatoka ( <i>Mycosphaerella fijiensis</i> )  Yellow Sigatoka ( <i>Mycosphaerella musicola</i> )	5.5 - 8.3 (0.09 - 0.135)	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes canopy management through removal of suckers, proper plant spacing, selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters, and good surface water drainage.</p> <p><b>Resistance Management:</b> Do not apply more than two (2) sequential applications of Abound before alternating with a fungicide that has a different mode of action. Do not make more than eight (8) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season every 12-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 2.08 quarts product/acre/season (1.08 lbs. a.i./A).                      May be applied the day of harvest.</p>

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Crop	Target Diseases	Use Rate fl. oz. product/A (lbs. a.i./A)	Remarks
<p>Berries, bushberry subgroup Blueberry Currant Elderberry Gooseberry Huckleberry</p> <p>Lingonberry</p> <p>Juneberry</p> <p>Salal</p>	<p>Mummyberry (<i>Vaccinium</i> spp.)</p> <p>Alternaria Fruit Rot (<i>Alternaria</i> spp.)</p> <p>Phomopsis stem canker (<i>Phomopsis vaccinii</i>)</p> <p>Anthraxnose fruit rot (<i>Colletotrichum gloeosporoides</i>)</p>	<p>6.2-15.4 (0.1-0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential applications of Abound before alternating with a fungicide that has a different mode of action. Do not make more than three (3) applications of Abound per acre per crop year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season on a 7-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.44 quarts (0.75 lb active ingredient) per acre per season. May be applied the day of harvest.</p>
<p>Cherries</p>	<p>See Stone Fruit</p>		
<p>Citrus Fruit</p> <p>Calamondin Citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange (sour and sweet) Pummelo Satsuma mandarin Tangerine</p>	<p>Greasy spot (<i>Mycosphaerella citri</i>)</p> <p>Melanose (<i>Diaporthe citri</i>)</p> <p>Scab (<i>Elsinoe fawcettii</i>)</p> <p>Albinism (<i>Alternaria alternata pv citri</i>)</p> <p>Post bloom fruit drop (PFD) (<i>Colletotrichum acutatum</i>)</p> <p>Alternaria leaf and fruit spot (<i>Alternaria citri</i>)</p>	<p>12.4-15.4 (0.2-0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters, and proper timing of irrigation.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential applications of Abound before alternation with a fungicide that has a different mode of action. Do not make more than six (6) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Under conditions that favor severe disease epidemics, the higher application rates should be used. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.</p> <p>Do not apply more than 2.88 quarts product/acre/season (1.5 lbs. a.i./A). May be applied the day of harvest.</p>
<p>Grapes including Muscadines</p>	<p>Downy Mildew (<i>Plasmopara viticola</i>)</p> <p>Phomopsis Cane and Leaf Spot (<i>Phomopsis viticola</i>)</p> <p>Powdery Mildew (<i>Uncinula necator</i>)</p> <p>Black Rot (<i>Guignardia bidwellii</i>)</p>	<p>11 - 15.4 (0.18 - 0.25)</p>	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes canopy management through pruning and thinning, proper selection of varieties with disease tolerance, proper timing and placement of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential applications of Abound before alternating with a fungicide that has a different mode of action. For wine and table grapes do not make more than four applications of Abound or other strobilurins per acre per year. For all other types of grapes do not make more than three (3) applications of Abound or other strobilurin fungicides per acre per year.</p>

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Crop	Target Diseases	Use Rate fl. oz. product/A (lbs. a.i./A)	Remarks
<p>Grapes including Muscadines <i>(continued)</i></p>		<p>11 - 15.4 (0.18 - 0.25)</p>	<p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season every 10-14 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.92 quarts product/acre/season (1.0 lb. a.i./A). Do not apply within 14 days of harvest.</p> <p style="text-align: center;"><b>ATTENTION</b></p> <p>Abound is extremely phytotoxic to certain apple varieties.</p> <p>AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit). DO NOT spray Abound where spray drift may reach apple trees.</p> <p>DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.</p> <p>DO NOT use spray equipment which has been previously used to apply Abound to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crab-apple varieties.</p> <p>AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.</p>
<p>Nectarines</p>	<p>See Stone Fruit</p>		
<p>Peaches</p>	<p>See Stone Fruit</p>		
<p>Peanuts</p>	<p>Early Leaf spot <i>(Cercospora arachidicola)</i></p> <p>Late Leaf spot <i>(Cercosporidium personatum)</i></p> <p>Pythium Pod Rot <i>(Pythium myriotylum)</i></p> <p>Rust <i>(Puccinia arachidis)</i></p> <p>Web blotch <i>(Phoma arachidicola)</i></p> <p><b>Soilborne Diseases</b> Rhizoctonia Peg and Pod Rot <i>(Rhizoctonia solani)</i></p> <p>Stem Rot/White Mold <i>(Sclerotium rolfsii)</i></p>	<p>18.4 - 24.6 (0.30 - 0.40)</p>	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, proper timing and placement of irrigation, crop rotation and crop residue management.</p> <p><b>Resistance Management:</b> For control of peanut leaf spot diseases do not make more than two (2) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound should be applied at approximately 60 and 90 days after planting as a foliar application. This application regime may be applied earlier in the season if environmental conditions favor disease development. These two applications of Abound will provide season-long protection against the soil borne diseases labeled and will also provide control of early and late leaf spot for a 10-14 day period after each spray.</p> <p>For control of Pythium a rate of 24.6 fl oz is generally required. Additional applications of other labeled fungicides on a leaf spot application schedule will be required to provide season-long disease control of the leaf spot diseases. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.</p> <p>For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.</p> <p>Do not apply more than 1.54 quarts product/acre/season (0.8 lb. a.i./acre/season). Do not apply within 14 days of harvest.</p>

# Abound®

Crop	Target Diseases	Use Rate fl. oz. product/A (lbs. a.i./A)	Remarks
Pecans	<p>Anthracnose (<i>Glomerella cingulata</i>)</p> <p>Scab (<i>Cladosporium caryigenum</i>)</p>	6.2 - 12.3 (0.10 - 0.20)	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential applications of Abound before alternation with a fungicide that has a different mode of action. Do not make more than three (3) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates to improve coverage.</p> <p>Do not apply more than 1.16 quarts product/acre/season (0.6 lb. a.i./A). Do not apply within 45 days of harvest.</p>
Pistachios	<p>Alternaria Late Blight (<i>Alternaria alternata</i>)</p> <p>Botryosphaeria panicle and shoot blight (<i>Botryosphaeria dothidea</i>)</p>	12.3 - 15.4 (0.20 - 0.25)	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than three sequential applications of Abound before alternation with a fungicide that has a different mode of action. Do not make more than four (4) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season on 7-21 day intervals following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>Do not apply more than 1.92 quarts product/acre/season (1.0 lb. a.i./A). Do not apply within 28 days of harvest.</p>
Plums	See Stone Fruit		
Prunes	See Stone Fruit		
<p>Stone Fruits</p> <p>Apricot</p> <p>Cherry, sweet</p> <p>Cherry, tart</p> <p>Nectarine</p> <p>Peach</p> <p>Plum</p> <p>Plumcot</p> <p>Prune</p>	<p>Scab (<i>Cladosporium carpophilum</i>)</p> <p>Alternaria Spot and Fruit Rot (<i>Alternaria alternata</i>)</p> <p>Anthracnose (<i>Colletotrichum pruicola</i>, <i>C. gloeosporioides</i>)</p> <p>Leaf Rust (<i>Tranzschelia discolor</i>)</p> <p>Powdery Mildew (<i>Sphaerotheca pannosa</i>, <i>Podosphaera clandestina</i>)</p> <p>Shothole (<i>Wilsonomyces carpophilus</i>)</p>	11 - 15.4 (0.18 - 0.25)	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and pruning to provide sunlight and aeration into the canopy.</p> <p><b>Resistance Management:</b> For blossom blight do not apply more than two sequential applications of Abound before alternating with a fungicide that has a different mode of action. For all other diseases do not apply more than three sequential applications of Abound before alternation with a fungicide that has a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population. Do not make more than four (4) applications of Abound or other strobilurin fungicides per acre per year for all diseases. Do not make more than 4 applications of Abound or other strobilurin fungicides per acre per year at 15.4 fl oz product/A (0.25 lb. a.i./A).</p>

continued...

Abound®

Crop	Target Diseases	Use Rate fl. oz. product/A (lbs. a.i./A)	Remarks
Stone fruits (continued)	<p>_____</p> <p>Brown Rot Blossom blight Fruit rot (<i>Monilinia fructicola</i>, <i>M. laxa</i>)</p>	12.3 - 15.4 (0.2 - 0.25)	<p><b>Application Directions:</b> Brown rot blossom blight - Begin applications at early bloom and continue through petal fall. Do not apply more than two applications of Abound before alternating with fungicides that have a different mode of action. Brown rot on fruit - Abound may be applied to fruit up to the day of harvest. Do not apply more than two applications before alternating with fungicides that have a different mode of action. Scab - begin applications at petal fall and continue at 7-14 day intervals. For all other diseases, begin application at the onset of disease as a protectant fungicide and continue on a 7-14 day schedule. For peaches only, 9.2-15.4 fl oz of Abound may be used for scab control.</p> <p>Applications may be made by ground and air.</p> <p>Do not apply more than 1.92 quarts product/acre/season (1.0 lb. a.i./A).</p> <p>May be applied the day of harvest.</p>
<p><b>Tree Nuts</b></p> <p>Almonds (see specific use instructions) Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory Macadamia Pecan Walnut</p> <p>Pistachios (see specific use instructions)</p>	<p>Alternaria leaf and fruit spot (<i>Alternaria alternata</i>)</p> <p>Anthracnose (<i>Colletotrichum acutatum</i>, <i>Glomerella cingulata</i>)</p> <p>Late blight (<i>Alternaria alternata</i>)</p> <p>Scab (<i>Cladosporium carpophilum</i>)</p> <p>Septoria leaf spot (<i>Septoria pistaciarum</i>)</p> <p>Shothole (<i>Wilsonomyces carpophilus</i>)</p> <p>_____</p> <p>Blossom Blight (<i>Monilinia laxa</i>, <i>M. fructicola</i>)</p>	<p>11 - 12.3 (0.18 - 0.20)</p> <p>_____</p> <p>12.3 (0.20)</p>	<p><b>Integrated Pest (Disease) Management:</b> Abound should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, removal of plant debris in which inoculum overwinters and proper timing and placement of irrigation.</p> <p><b>Resistance Management:</b> For blossom blight do not apply more than two sequential applications of Abound before alternating with a fungicide that has a different mode of action. For all other diseases do not apply more than three sequential applications of Abound before alternation with a fungicide that has a different mode of action. Do not make more than four (4) applications of Abound or other strobilurin fungicides per acre per year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season following the resistance management guidelines. Applications may be made by ground, air, or chemigation. An adjuvant may be added at recommended rates to improve coverage.</p> <p>For blossom blight begin applications at early bloom and continue through petal fall. For all other diseases begin applications prior to disease development and continue at 7-21 day intervals throughout the season.</p> <p>Do not apply more than 1.54 quarts product/acre/season (0.8 lb. a.i./A).</p> <p>Do not apply within 45 days of harvest.</p>

# Abound®

Crop	Target Diseases	Use Rate fl. oz. product/A (lbs. a.i./A)	Remarks
<b>Tropical Fruit</b> Acerola Atemoya Avocado Biriba Canistel Cherimoya Custard apple Feijoa Guava Ilama Jaboticaba Jackfruit Longan Loquat Lychee Mango Papaya Passionfruit Pawpaw Persimmon Pulasan Pummello Rambutan Sapodilla Sapote, black Sapote, mamey Sapote, white Soursop Star apple Starfruit Sugar apple Spanish lime Tamarind Uniq fruit	Anthracnose ( <i>Colletotrichum</i> spp.)  Rust ( <i>Puccinia</i> spp.)  Cercospora leaf spot ( <i>Cercospora</i> spp.)  Powdery Mildew ( <i>Erysiphe</i> spp.)  Soilborne Diseases Seedling root rot, basal stem rot ( <i>Rhizoctonia solani</i> )	6.2 - 15.4 (0.1 - 0.25)	<p><b>Integrated Pest (Disease) Management:</b>                      Abound should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.</p> <p><b>Resistance Management:</b> Do not apply more than two sequential applications of Abound before alternating with a fungicide that has a different mode of action. Do not make more than six (6) applications of Abound per acre per crop year.</p> <p><b>Application Directions:</b> Abound applications should begin prior to disease development and continue throughout the season on a 10-14 day schedule, following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at recommended rates.</p> <p>For soilborne/seedling disease control, see directions and rates under GENERAL INFORMATION section.</p> <p>Do not apply more than 2.88 quarts (1.5 lbs. active ingredient) per acre per season.</p> <p>May be applied the day of harvest.</p>

## Abound Flowable Fungicide Rate Conversion Chart

Fluid Ounces Product/A	Lb. a.i./A	Treated Acres/Gal Product
2	0.03	64.0
3	0.05	42.7
4	0.07	32.0
5	0.08	25.6
6	0.10	21.3
7	0.11	18.3
8	0.13	16.0
9	0.15	14.2
10	0.16	12.8
11	0.18	11.6
12	0.20	10.7
13	0.21	9.8
14	0.23	9.1
15	0.24	8.5
16	0.26	8.0
17	0.28	7.5
18	0.29	7.1
19	0.31	6.7
20	0.33	6.4
21	0.34	6.1
22	0.36	5.8
23	0.37	5.6
24	0.39	5.3

# Abound®

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For non-emergency (e.g., current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
[www.syngenta-us.com](http://www.syngenta-us.com)  
**SCP 1098A-L1 0202**



**Flowable Fungicide**

Broad spectrum fungicide for control of plant diseases

Active Ingredient:

Azoxystrobin: methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yl]oxyphenyl]-3-methoxyacrylate* . . . . .	22.9%
Other Ingredients:	77.1%
<b>Total:</b>	<b>100.0%</b>

Contains 2.08 lbs. of active ingredient per gallon

**\*IUPAC**

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1098 EPA Est. No. 100-NE-001

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Formulated in the USA

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Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
www.syngenta-us.com

SCP 1098A-L1 0202

**1 gallon**

U.S. Standard Measure

**KEEP OUT OF REACH OF CHILDREN. CAUTION**

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**CAUTION**

**HARMFUL IF ABSORBED THROUGH SKIN.** Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber. Wash thoroughly with soap and water after handling.

**FIRST AID**

**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.

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

**HOT LINE NUMBER:** For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call **1-800-888-8372**

**ENVIRONMENTAL HAZARDS**

The active ingredient, Azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. For terrestrial uses, do not

apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify state and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

**Storage and Disposal**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**STORAGE:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**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 of the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

**Plastic Containers:** Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

**Chemigation**

Refer to supplemental labeling entitled in the attached booklet for use directions for chemigation.

Do not apply this product through any irrigation system, unless the supplemental labeling on chemigation is followed.

