AZOXYSTROBIN | GROUP 11 | FUNGICIDE

DIFENOCONAZOLE | GROUP 3 | FUNGICIDE

PULL HERE TO OPEN

# Amistar® Top

syngenta®

## Fungicide

| | |
|---|---|
| *Active Ingredients:* | |
| Azoxystrobin* | 18.2% |
| Difenoconazole** | 11.4% |
| *Other Ingredients:* | 70.4% |
| *Total:* | 100.0% |

*CAS No. 131860-33-8
**CAS No. 119446-68-3

Amistar Top is formulated as a suspension concentrate (SC) containing 1.67 lb of azoxystrobin active ingredient and 1.05 lb of difenoconazole active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

# CAUTION

See additional precautionary statements and directions for use inside booklet.

**EPA Reg. No. 100-1313**
**EPA Est. 100-NE-001**

**SCP 1313C-L1A 0218**
**4093081**

## 2.5 gallons

**Net Contents**

®

| FIRST AID | |
|---|---|
| **If swallowed** | • Call a poison control center or doctor immediately for treatment advice.<br>• Have person sip a glass of water if able to swallow.<br>• Do not induce vomiting unless told to by a poison control center or doctor.<br>• Do not give anything by mouth to an unconscious person. |
| **If on skin** | • Take off contaminated clothing.<br>• Rinse skin immediately with plenty of water for 15-20 minutes.<br>• 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.<br>• Call a poison control center or doctor for treatment advice. |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. | |
| **HOT LINE NUMBER**<br>For 24-Hour Medical Emergency Assistance (Human or Animal)<br>Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident)<br>Call<br>**1-800-888-8372** | |

## PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear. 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 other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

### User Safety Requirements

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

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.

*continued…*

## PRECAUTIONARY STATEMENTS *(continued)*

### User Safety Recommendations

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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

Difenoconazole is toxic to fish, mammals and aquatic invertebrates. Drift and runoff may be hazardous to **estuarine/marine** organisms in water adjacent to treated area.

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

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 water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### Groundwater Advisory

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater 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. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of Azoxystrobin **and a degradate of Azoxystrobin** from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

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 must 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, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

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. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, 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 Limitation 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.

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 (REI) 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:

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

## PRODUCT INFORMATION

Amistar Top is a broad-spectrum product containing two fungicides. It has preventative, systemic and curative properties and is recommended for the control of many important plant diseases. Amistar Top provides excellent disease control of many leaf spots and powdery mildews. Amistar Top is applied as a foliar spray and can be used in block, alternating spray or tank-mix programs with other crop protection products. All applications should be made according to the use directions that follow.

## USE PRECAUTIONS AND RESTRICTIONS

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.**

**ATTENTION**

Amistar Top 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 Amistar Top 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 Amistar Top 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.

## USE INFORMATION

**Application:** Thorough coverage is necessary to provide good disease control. Make no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

**Adjuvants:** When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Chemical Producers and Distributors Association (CPDA) adjuvant certification program is recommended.

**Use of Adjuvants:** Under certain weather conditions (particularly high temperatures) Amistar Top in combination with high rates of silicone-based or oil containing (petroleum or crop) additives or adjuvants may cause injury. Do not exceed 0.125% adjuvant (v/v). Consult a Syngenta representative for more information concerning additives or adjuvants.

A tank mixture with Dimethoate may cause crop injury.

On fresh market tomatoes, do not use adjuvants or tank mix Amistar Top with any EC product.

**Efficacy:** Under certain conditions conducive to extended infection periods, use another registered fungicide for additional applications if the maximum amount of Amistar Top has been used. If resistant isolates to Group 3 or Group 11 fungicides are present, efficacy can be reduced for certain diseases. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, with highly susceptible varieties, or when environmental conditions are conducive to disease.

**Integrated Pest Management (IPM):** Amistar Top 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. Consult your local agricultural authorities for additional IPM strategies established for your area. Amistar Top 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

| | | | |
|---|---|---|---|
| **AZOXYSTROBIN** | **GROUP** | **11** | **FUNGICIDE** |
| **DIFENOCONAZOLE** | **GROUP** | **3** | **FUNGICIDE** |

For resistance management, please note that Amistar Top contains both azoxystrobin, a strobilurin fungicide in Group 11 and difenoconazole, a triazole fungicide in Group 3. Any fungal population may contain individuals naturally resistant to either or both of the active ingredients in Amistar Top and other Group 11 or 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 should be followed.

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

- Apply a maximum of 4 sprays during one crop cycle.
- Apply no more than 2 sequential applications unless otherwise stated in the crop section.
- Rotate the use of Amistar Top or other Group 11 and 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 further information or to report suspected resistance contact Syngenta Crop Protection at 1-866-796-4368. You can also contact your pesticide distributor or university extension specialist to report resistance.

**Rotational Crops:** Please see the following table for the crop rotational restrictions:

| Rotational Crops | Planting Time From Last Amistar Top Application |
|---|---|
| Artichoke, Globe<br>Bean and Pea, Dried Shelled Subgroup 6C<br>Berry, Bushberry Subgroup 13-07B<br>Berry, Low Growing, Subgroup 13-07G<br>Brassica (Cole) Leafy Vegetables<br>Bulb Vegetables, bulb onion Subgroup 3-07A and green onion Subgroup 3-07B<br>Carrots<br>Chickpeas<br>Citrus fruit Crop Group 10-10<br>Cotton Subgroup 20C<br>Cucurbit Vegetables Crop Group 9<br>Fruit, small, vine climbing Subgroup 13-07F, except fuzzy kiwifruit<br>Fruiting Vegetables Crop Group 8-10<br>Ginseng<br>Guava<br>Papaya<br>Pepper<br>Potatoes<br>Rice<br>Soybeans<br>Stone fruit Crop Group 12-12<br>Strawberries<br>Sugar Beets<br>Tree nuts Crop Group 14-12<br>Tomatoes<br>Tuberous & Corm Vegetable Subgroup 1C<br>Watercress<br>Wild rice | 0 days |
| Cereals (Wheat, Barley, Triticale)<br>Oats<br>Rye<br>Root and Tuber Vegetables, Crop Group 1 (except Carrot, Sugar Beet, and Tuberous Corm Vegetable Subgroup 1C) | 30 days |
| Buckwheat<br>Millet | 365 days |
| All Other Crops Intended for Food and Feed | 60 days |

**Crop Tolerance:** Plant tolerance has been found to be acceptable for all crops on the label, however, not all possible tank-mix combinations have been tested under all conditions. When possible, it is recommended to test the combinations on a small portion of the crop to ensure that a phytotoxic response will not occur as a result of application. See USE PRECAUTIONS AND RESTRICTIONS regarding apple phytotoxicity.

**Greenhouse Use:** For resistance management, do not use Amistar Top for transplant production.

**Spray Drift Management:** To avoid spray drift, do not apply when conditions favor drift beyond the target area. The interaction of many equipment and weather related factors determine the potential for spray drift. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. More information on managing spray drift can be found on the Syngenta Crop Protection website under Stewardship (http://www.syngenta-us.com/practicing-stewardship/responsible-pesticide-application).

## MIXING AND APPLICATION METHODS

### Spray Equipment

#### Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- Use the same size nozzles uniformly spaced across the boom.
- Calibrate sprayer before use.
- Use screens to protect the pump and to prevent nozzles from clogging.
- On suction side of pump use screens that are *16-mesh or coarser*.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's recommendations.

#### Pump

- Use a pump with capacity to:
  (1) Maintain 35-40 psi at nozzles.
  (2) Provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.
- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

For more information on spray equipment and calibration, consult sprayer manufacturer's and state recommendations. For specific local directions and spray schedules, consult the current state agricultural recommendations.

### Mixing Instructions

- Amistar Top is a suspension concentrate (SC) formulation.
- Prepare no more spray mixture than is required for the immediate operation.
- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

### Amistar Top Alone (No Tank Mix)

- Add 1/2-2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add Amistar Top to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Amistar Top has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

**Amistar Top + Tank Mixtures:** Amistar Top is usually compatible with tank-mix partners listed on this label. To determine the physical compatibility of Amistar Top with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to 1 qt of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

Tank Mixtures: All directions for use, crops/sites, use rates, dilution rates, precautions, and limitations which appear on the tank-mix product label must be observed. The label dosage for the tank-mix partner is not to be exceeded, and the most restrictive label precautions and limitations are to be followed.

### Mixing in the Spray Tank

- Add 1/2-2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Amistar Top to the spray tank.
- Allow Amistar Top to completely disperse.
- Spray the mixture with the agitator running.
- Observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label.
- Label dosage rate must not be exceeded, and the most restrictive label precautions and limitations must be followed.
- This product must not be mixed with any product which prohibits such mixing.
- 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.

### Application Instructions

Amistar Top may be applied with many types of spray equipment commonly used for making ground and aerial applications. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control.

### Ground Application

- Apply in a minimum of 10 gal of water per acre, unless specified otherwise.
- Do not apply through any ultra-low volume (ULV) spray system.
- Thorough coverage is necessary to provide good disease control.

### Aerial Application

- Use only on crops where aerial applications are indicated.
- Thorough coverage is necessary to provide good disease control.
- Apply in a minimum of 5 gallons of water per acre unless specified otherwise.
- Do not apply under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur.
- Do not apply directly to humans or animals.
- Do not apply through any ultra-low volume (ULV) spray system.

**ATTENTION**

Amistar Top 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 Amistar Top 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 Amistar Top 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.

## Application Through Irrigation Systems (Chemigation)

- Use only on crops for which chemigation is specified on this label.
- Apply this product only through center pivot, solid set, hand move, or moving wheel irrigation systems. 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.
- Apply in 0.1-0.25 inches/acre. Excessive water may reduce efficacy.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- 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.
- 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.

## Operating Instructions

1. 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
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.

## Center Pivot Irrigation Equipment

**Notes:** (1) Use only with drive systems which provide uniform water distribution. (2) Do not use end guns when chemigating Amistar Top through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 1/8-1/2 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. When applying Amistar Top through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of Amistar Top required to treat the area covered by the irrigation system.
- Add the required amount of Amistar Top and sufficient water to meet the injection time requirements to the solution tank.
- Make sure the system is fully charged with water before starting injection of the Amistar Top solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the Amistar Top solution has cleared the sprinkler head.

### Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20- to 30-minute interval. When applying Amistar Top through irrigation equipment use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of Amistar Top required to treat the area covered by the irrigation system.
- Add the required amount of Amistar Top into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the Amistar Top solution has cleared the last sprinkler head.

## 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, backflow 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.
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.

**SPECIFIC DIRECTIONS FOR USE**

| Crop | Target Diseases | Use Rate fl oz product/A | Remarks |
|---|---|---|---|
| **Citrus Fruit Crop Group 10-10**<br>Grapefruit<br>Lemon<br>Lime<br>Orange (Sour and Sweet)<br>Tangerine<br>Including all cultivars and/or hybrids of these<br>See complete list of citrus fruit crops below. | Greasy Spot *(Mycosphaerella citri)* | 10-15.4 | Amistar Top applications should begin prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground or air. An adjuvant may be added at recommended rates. A horticultural spray oil should be used to improve control of greasy spot.<br>The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.<br>If disease pressure is high, use the shortest interval and highest rate.<br>Make no more than 2 sequential applications before alternating to another fungicide with a non-QoI (Group 11) different mode of action. Do not make more than 4 applications of Amistar Top or other Group 11 fungicides per season. |
| | Alternaria Leaf and Fruit Spot *(Alternaria citri)*<br>Anthracnose (*Colletotrichum* spp.)<br>Black Spot (*Guignardia citricarpa*)<br>Greasy Spot Rind Blotch *(Mycosphaerella citri)*<br>Melanose *(Diaporthe citri)*<br>Phomopsis Stem-End Rot (*Phomopsis citrii*)<br>Post-Bloom Fruit Drop (PFD) *(Colletotrichum acutatum)*<br>Scab *(Elsinoe fawcettii)* | 15.4 | Amistar Top applications should begin prior to disease development and continue throughout the season on 7- to 21-day intervals following the resistance management guidelines. Applications may be made by ground or air. An adjuvant may be added at recommended rates. A horticultural spray oil should be used to improve control of greasy spot.<br>If disease pressure is high, use the shortest interval.<br>Make no more than 2 sequential applications before alternating to another fungicide with a non-QoI (Group 11) different mode of action. Do not make more than 4 applications of Amistar Top or other Group 11 fungicides per season.<br>The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended. |

*continued…*

**Citrus Fruit Crop Group 10-10 *(continued)***

**Application:** For best results, sufficient water volume must be used to provide thorough coverage. Amistar Top can be applied by ground or aerial application. Use a minimum of 15 gal/A of water for ground applications. For aerial applications, use a minimum of 10 gal/A of water.

**Complete List of Citrus Fruit Crops:** Australian desert lime; Australian finger lime; Australian round lime; Brown River finger lime; Calamondin; Citron; Citrus hybrids (*Citrus* spp., *Eremocitrus* spp., *Fortunella* spp., *Microcitrus* spp., and *Poncirus* spp).; Grapefruit; Japanese summer grapefruit; Kumquat; Lemon; Lime; Mediterranean mandarin; Mount White lime; New Guinea wild lime; Orange, sour; Orange, sweet; Pummelo; Russell River lime; Satsuma mandarin; Sweet lime; Tachibana orange; Tahiti lime; Tangelo; Tangerine (Mandarin); Tangor; Trifoliate orange; Uniq fruit; cultivars, varieties and/or hybrids of these.

**Specific Use Restrictions:**
1) Do not use Amistar Top in citrus plant propagation nurseries.
2) Do not apply more than 61.5 fl oz/A/year of Amistar Top (0.80 lb azoxystrobin and 0.50 lb difenoconazole).
3) Do not apply more than 0.5 lb ai/A/year of difenoconazole-containing products.
4) Do not apply more than 1.5 lb ai/A/year of azoxystrobin-containing products.
5) May be applied the day of harvest (0-day PHI).

| Crop | Target Diseases | Use Rate fl oz product/A | Remarks |
|---|---|---|---|
| **Cotton Subgroup 20C** | Alternaria leaf spot (*Alternaria* spp)<br>Anthracnose (*Glomerella gossypii*)<br>Aerolate mildew (*Ramularia gossypii*)<br>Ascochyta blight (*A. gossypii*)<br>Boll rots (*Ascochyta gossypii, Alternaria spp., Diplodia* spp., *Phoma* spp.)<br>Cotton rust (*Puccinia schedonnardi*)<br>Diplodia boll rot (*Diplodia* spp.)<br>Hardlock (*Fusarium verticillioides*)<br>Leafspots and blights (*Alternaria* spp., *Ascochyta gossypii, Cercospora* spp., *Stemphyllium* spp.)<br>Southwesterrn cotton rust (*Puccina cacabata, Puccinia* spp.)<br>Stemphyllium leaf spot (*Stemphyllium* spp.)<br>Target spot (Cornyespora cassiicola) | 8 – 11.6* | For best activity, apply Amistar Top prior to or early in the disease development. An adjuvant may be added at specified rates.<br>For foliar disease control, the first application should be targeted approximately at pin-head square to first bloom or when conditions are conducive for disease development. For best control of target spot, adjust the GPA to ensure coverage of upper and lower leaves. Subsequent applications may be made on a 14-21 day interval.<br>Do not apply more than two sequential applications before alternating to a fungicide with a different mode of action. |

*11.6 fl oz product/A contains 0.095 lb difenoconazole/A and 0.15 lb azoxystrobin/A.

**Application:** For best results, sufficient water volume must be used to provide thorough coverage. Amistar Top can be applied by ground, chemigation, or aerial application. For aerial applications, use a minimum of 5 gal/A of water. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy. Applicators should use care in making applications near non-target aquatic habitats.

**Specific Use Restrictions:**
1) Do not apply more than 34.8 fl oz/A/year of Amistar Top (0.45 lb azoxystrobin and 0.29 lb difenoconazole).
2) Do not apply more than 0.45 lb ai/A/year of azoxystrobin-containing products.
3) Do not apply more than 0.34 lb ai/A/year of difenoconazole-containing products.
4) Do not apply Amistar Top within 45 days of harvest (45-day PHI).

| Crop | Target Diseases | Use Rate fl oz product/A | Remarks |
|---|---|---|---|
| **Pecans** | Downy Spot (*Mycosphaerella caryigena*)<br>Liver Spot (*Gnomonia caryae pv pecanae*)<br>Pecan Scab (*Cladosporium caryigenum*)<br>Powdery Mildew (*Microsphaera penicillata*)<br>Vein Spot (*Gnomomia nerviseda*)<br>Zonate Leaf Spot (*Grovesinia pyramidalis*) | 8-14 | Begin applications prior to disease onset when conditions are conducive for disease. Apply Amistar Top on a 14- to 21-day schedule, making no more than 2 sequential applications before alternating to another fungicide with a non-QoI (Group 11) mode of action.<br>The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.<br>If disease pressure is high, use the shortest interval and highest rate. |

**Application:** For best results, sufficient water volume must be used to provide thorough coverage. Amistar Top can be applied by ground or aerial application. Use a minimum of 15 gal/A of water for ground applications. For aerial applications, use a minimum of 10 gal/A of water.

**Specific Use Restrictions:**
1) Do not apply more than 56 fl oz/A/year of Amistar Top (0.73 lb azoxystrobin and 0.46 lb difenoconazole).
2) Do not apply more than 0.46 lb ai/A/year of difenoconazole-containing products.
3) Do not apply more than 1.2 lb ai/A/year of azoxystrobin-containing products.
4) Do not apply within 45 days of harvest (45-day PHI).

*continued...*

| Crop | Target Diseases | Use Rate fl oz product/A | Remarks |
|---|---|---|---|
| **Potatoes** | Black Dot (*Colletotrichum coccodes*)<br>Brown Spot (*Alternaria alternata*)<br>Early Blight (*Alternaria solani*)<br>Powdery Mildew (*Erysiphe cichoracearum*)<br>Septoria Leaf Spot (*S. lycopersici*) | 8-14 | Begin applications prior to disease development and continue throughout the season on a 7- to 14-day interval. Make no more than 2 consecutive applications before switching to another effective fungicide with a different mode of action.<br>The addition of a spreading/penetrating type adjuvant such as a non-ionic based surfactant or crop oil concentrate or blend is recommended.<br>If disease pressure is high, use the shortest interval and highest rate.<br>The addition of a spreading/penetrating type adjuvant may enhance efficacy. |
| **Application:** For best results, use sufficient water volume to provide thorough coverage. Amistar Top may be applied by ground, chemigation, or aerial application. | | | |
| **Specific Use Restrictions:**<br>1) Do not apply more than 55.3 fl oz/A/year of Amistar Top (0.72 lb azoxystrobin and 0.45 lb difenoconazole).<br>2) Do not apply more than 0.46 lb ai/A/year of difenoconazole-containing products.<br>3) Do not apply more than 2.0 lb ai/A/year of azoxystrobin-containing products<br>4) Do not apply within 14 days of harvest (14-day PHI). | | | |

| Crop | Target Diseases | Use Rate fl oz product/A | Remarks |
|---|---|---|---|
| **Rice** | Sheath Blight (*Rhizoctonia solani*)<br>Aggregate Sheath Spot (*Rhizoctonia oryzae-sativae*)<br>Black Sheath Rot (*Gaeumannomyces graminis var. graminis*)<br>Sheath Spot (*Rhizoctonia oryzae*)<br>Stem Rot (*Sclerotium oryzae*)<br>Brown Leaf spot (*Cochliobolus miyabeanus*)<br>Leaf Smut (*Entyloma oryzae*)<br>Narrow Brown Leaf spot (*Cercospora oryzae*)<br>Kernel Smut (*Neovossia barclayana*)<br><br>Suppression of:<br>False smut (*Ustilaginoidea virens*) | 10 – 15* | Apply 11.25-15 fl oz/A when disease is less than 4 inches above water line usually between panicle differentiation (PD) +5 days to PD +10 days or at initial sign of disease. Under heavy disease pressure and conditions favorable for disease development, the 15 fl oz/A rate is recommended and a second application may be applied. Minimum re-treatment interval is 14 days.<br>Amistar Top may be applied to a ratooned crop for control of Sheath blight.<br>For hybrids/varieties with partial resistance to sheath blight, the lower rate of 10 fl oz/A may be used. |
| | Panicle Blast (*Pyricularia grisea*) | 15 | Amistar Top must be applied as a preventative treatment for blast control and applied prior to favorable conditions for blast development. For panicle blast, an application should be applied at mid-boot to boot-split but prior to full head emergence. A second application should be applied when panicles are approximately 60-90% emerged from the boot (Minimum 14 days later). |

*10-15 fl oz product/A contains 0.082 to 0.123 lb difenoconazole/A and 0.13 to 0.196 lb azoxystrobin/A.

**Application:** For best results, sufficient water volume must be used to provide thorough coverage. Amistar Top can be applied by ground or aerial application. For aerial applications, use a minimum of 5 gal/A of water. Applicators should use care in making applications near non-target aquatic habitats.

**Specific Use Restrictions:**
1) Do not treat rice fields used for aquaculture of fish or crustacean.
2) Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat.
3) Do not allow release of irrigation or flood water for at least 14 days after the last application.
4) Do not apply more than 30 fl oz/A/year of Amistar Top.
5) Do not apply more than 0.7 lb ai/A/year of azoxystrobin-containing products.
6) Do not apply more than 0.244 lb ai/A/year of difenoconazole-containing products.
7) Do not apply Amistar Top within 28 days of harvest (28-day PHI).
8) Do not drain water from treated rice fields into ponds used for aquaculture of fish or crustacean.
9) Do not use water drained from treated field to irrigate other crops.

**Amistar Top Rate Conversion Table for Food Use**

| Fl oz product/acre | Lb ai azoxystrobin | Lb ai difenoconazole |
|---|---|---|
| 8 | 0.10 | 0.07 |
| 10 | 0.13 | 0.08 |
| 14 | 0.18 | 0.11 |
| 15 | 0.19 | 0.12 |
| 15.4 | 0.20 | 0.13 |

## STORAGE AND DISPOSAL

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

### Pesticide Storage

Store in original container only. Store in a cool, dry and well-ventilated place. Protect from excessive heat. Keep container closed when not in use. Do not store near food or feed.

### Pesticide Disposal

Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be used 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 in proper disposal methods.

### Container Handling [less than or equal to 5 gallons]

**Non-refillable 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 incineration, or by other procedures approved by state and local authorities.

### Container Handling [greater than 5 gallons]

**Non-refillable 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank 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 incineration, or by other procedures approved by state and local authorities.

**Container Handling [greater than 5 gallons]**

**Refillable container.** Refill this container with pesticide only. Do not reuse the container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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

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the SYNGENTA Logo and the PURPOSE ICON
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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

**SCP 1313C-L1A 0218**
**4093081**

| | | | |
|---|---|---|---|
| AZOXYSTROBIN | GROUP | 11 | FUNGICIDE |
| DIFENOCONAZOLE | GROUP | 3 | FUNGICIDE |

Amistar® Top

# Fungicide

Active Ingredients:

| | |
|---|---|
| Azoxystrobin* | 18.2% |
| Difenoconazole** | 11.4% |
| Other Ingredients: | 70.4% |
| Total: | 100.0% |

*CAS No. 131860-33-8
**CAS No. 119446-68-3

Amistar Top is formulated as a suspension concentrate (SC) containing 1.67 lb of azoxystrobin active ingredient and 1.05 lb of difenoconazole active ingredient per gallon.

See additional precautionary statements and directions for use inside booklet.

**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. 100-1313
EPA Est. 100-NE-001

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Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

**SCP 1313C-L1A 0218**
**4093081**

(01) 0 07 02941 61255 6

## 2.5 gallons
**Net Contents**

## KEEP OUT OF REACH OF CHILDREN.

# CAUTION

### 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **If on skin:** 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.

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**.

## PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear. 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.

**Environmental Hazards:** Difenoconazole is toxic to fish, mammals and aquatic invertebrates. Drift and runoff may be hazardous to **estuarine/marine** organisms in water adjacent to treated area.

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

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 water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

**Groundwater Advisory:** Azoxystrobin and a degradate of azoxystrobin are known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater 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. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of Azoxystrobin **and a degradate of Azoxystrobin** from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

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

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

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