



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

93930-6

Date of Issuance:

2/26/19

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Avalaire T-Methyl 4.5F

Name and Address of Registrant (include ZIP Code):

Dave G Bolin  
Avalaire, LLC  
1204 Village market Place  
#173 Morrisville  
NC 27560

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Shaja B. Joyner, Product Manager 20  
Fungicide-Herbicide Branch  
Registration Division 7505P

Date:

2/26/19

2. You are required to comply with the data requirements described in the DCI Order identified below:

- a. Thiophanate-methyl GDCI-102001-1439

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 93930-6.”
5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 10/8/2018

If you have any questions, please contact Manjula Unnikrishnan by phone at 703-347-8520, or via email at [Unnikrishnan.manjula@epa.gov](mailto:Unnikrishnan.manjula@epa.gov).

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text.]

[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

{BOOKLET FRONT PANEL LANGUAGE}

THIOPHANATE-METHYL	GROUP	10	FUNGICIDE
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## Avalaire T-Methyl<sup>[™]</sup> 4.5 F

Contains thiophanate-methyl, the active ingredient used in [Topsin<sup>®</sup> 4.5FL Fungicide] and [3336<sup>®</sup> F].

### ACTIVE INGREDIENT:

Thiophanate-Methyl (Dimethyl [(1,2-phenylene)bis (iminocarbonothioyl)]bis[Carbamate])\*..... 46.2%

**OTHER INGREDIENTS**..... 53.8%

**TOTAL:** ..... 100.0%

\*Also known as Dimethyl 4,4'-o-phenylenebis-[3-thioallophanate] Contains 4.5 Lbs.

Thiophanate Methyl per gallon.

### KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside label booklet for additional Precautionary Statements and Directions for Use.

FIRST AID	
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth, if possible</li><li>• Call a poison control center or doctor for further treatment advice</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes</li><li>• Call a poison control center or doctor for treatment advice</li></ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye</li><li>• Call a poison control center or doctor for treatment advice</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice</li><li>• Have person sip a glass of water if able to swallow</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor</li><li>• Do not give anything by mouth to an unconscious person</li></ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.	

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

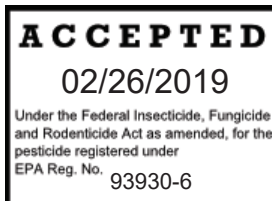
[Avalaire T-Methyl 4.5 F] is not manufactured or distributed by United Phosphorus, Inc., seller of [Topsin<sup>®</sup> 4.5FL Fungicide]. [Avalaire T-Methyl 4.5 F] is not manufactured or distributed by NuFarm Americas Inc, seller of [3336<sup>®</sup> F].

EPA Reg. No.: 93930-XX

EPA Est. No.:

NET Weight:

Manufactured For:  
**Avalaire, LLC**  
1204 Village Market Place, #173  
Morrisville, NC 27560



{LANGUAGE INSIDE BOOKLET}

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Harmful if swallowed. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are Barrier Laminate Gloves, Nitrile Rubber Gloves  $\geq 14$  mils, or Viton Gloves  $\geq 14$  mils.

#### Handlers mixing, loading and applying the product as a dip must wear:

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves
3. Chemical-resistant footwear plus socks
4. Chemical resistant apron

#### All other mixers, loaders and applicators must wear:

1. Long-sleeved shirt and long pants
2. Shoes plus socks
3. Chemical-resistant gloves for all mixers and loaders and for application using hand held equipment, and
4. Chemical-resistant apron for mixers, loaders, and other handlers exposed to concentrate

#### 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**ENGINEERING CONTROLS:** When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in WPS.

#### User Safety Recommendations

##### Users should:

1. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
2. 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

**DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

## DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**Shake well before using.**

**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).

The REI is 12 hours except as listed in the application rate tables below.

Exemption: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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:

1. Coveralls over long sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material
3. Chemical-resistant footwear plus socks
4. Chemical-resistant headgear for overhead exposures

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests nurseries, or greenhouses. Do not enter or allow others to enter treated area until sprays have dried. Keep children and pets out of the treated area until sprays have dried.

### PRODUCT INFORMATION

Apply **Avalaire T-Methyl 4.5 F 4.5 F** by ground or aerial application equipment using sufficient volume of spray to provide thorough coverage. Normal fungicide usage indicates this product will be applied over the top of the intended crop; it is critical to ensure that the tank and spray equipment has been cleaned of all other pesticides prior to mixing this product. Continuous agitation is required to keep the ingredients in suspension. Application gallonage and directions are given for each crop.

**Avalaire T-Methyl 4.5 F 4.5 F** may be tank mixed with other fungicides, insecticides and plant growth regulators that have been approved for use by the EPA on the intended crop. Avalaire does not make any claims of compatibility with other pesticides; always perform a Mixing Jar Test prior to tank mixing. See **Compatibility Test** section on this label. **DO NOT** tank mix with highly alkaline pesticides, including Bordeaux mixture or lime sulfur. 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.

Most effective disease control is obtained by preventative spray timing as climatic conditions indicate fungal infection or growth is imminent. Always use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service directions for application schedules.

Use on non-bearing apples, pecans, cherries, and peaches: **Avalaire T-Methyl 4.5 F 4.5 F** may be used for control of the leaf diseases listed on the label for these crops during the non-bearing years of new plantings, and on nursery stock. All use directions and limitations must be followed, except for the PHI, which is not applicable. Begin applications as disease is first observed. Tank mixing with a protectant fungicide is strongly advised for resistance management.

**High volume dilute applications:** Use the **PRODUCT per ACRE** rate for concentrate spray applications for tree crops (example: no more than 400 gallons on apples). When making dilute ground applications, use the **PRODUCT per 100 GALLONS** rate. Follow all crop specific language on this label for application. Dilute sprays must not exceed maximum a.i. per year.

**Aerial applications to tree crops:** Use a minimum of 10 gal/acre for aerial application to fruit tree crops. Increased fungicidal activity is related to coverage and timing, increased volumes are required as crop canopy density increases. NOTE: Conifer applications require higher spray volumes, use lower volumes with mist type applicators and highest volumes with conventional types.

**Row Crop applications:** Use a minimum of 5 gal/acre for ground application, however make most ground applications with 10 to 20 gal/acre as cropping situations dictate. Increased fungicidal activity is related to coverage and timing, increased volumes are required as crop canopy density increases.

**DO NOT** plant any crop not labeled for **Avalaire T-Methyl 4.5 F** use within 30 days of the last application.

**Chemigation:** See specific directions in this label.

## RESISTANCE MANAGEMENT

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For resistance management, **Avalaire T-Methyl 4.5 F** contains a Group 10 fungicide/bactericide. Any fungal/bacterial population may contain individuals naturally resistant to **Avalaire T-Methyl 4.5 F** and other Group 10 fungicides/bactericides. A gradual or total loss of pest control may occur over time if these fungicides/bactericides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of or other Group 10 fungicides/bactericides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicide/bactericides 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/bactericide 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/bactericide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal/bacterial 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 Avalaire, LLC at (984) 465-

4754. You can also contact your pesticide distributor or university extension specialist to report resistance.

## MANDATORY SPRAY DRIFT

### Aerial Applications

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

### Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

### Boom-less Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.

**Do not apply during temperature inversions.**

## SPRAY DRIFT ADVISORIES

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE  
An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.  
Controlling Droplet Size - Ground Boom
  - Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
  - Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
  - Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.Controlling Droplet Size - Aircraft
  - Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.
- BOOM HEIGHT - Ground Boom  
Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.



- **RELEASE HEIGHT - Aircraft**  
Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.
- **SHIELDED SPRAYERS**  
Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.
- **TEMPERATURE AND HUMIDITY**  
When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.
- **TEMPERATURE INVERSIONS**  
Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.
- **WIND**  
Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**  
Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.
- **BOOM-LESS GROUND APPLICATIONS:**  
Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

**Take precautions to minimize spray drift.**

## **MIXING INSTRUCTIONS**

Determine the treatment rate as indicated in the directions for use for crop and pathogen and measure the intended areas of application. Prepare a suspension of product. Fill spray tank to half full, start agitation. See Mixing Order chart below when any other products are tank mixed with this product. **Be sure to shake product container well** before pouring to measure. Some settling may occur during prolonged periods of non-use. High pH environments cause a shortened tank life for diluted product. The buffering of tank water to pH 6-7 prior to the addition of **Avalaire T-Methyl 4.5 F** specified. Slowly pour required product into partially filled spray tank (1/2 total volume), then finish filling tank with water, all the while maintaining agitation. Use sufficient water to ensure full coverage of foliage. **DO NOT** use an amount of water that could lead to excessive runoff from target plants. The amount of water will vary according to the amount of foliage requiring coverage and type of equipment but generally 25 to 100 gallons per acre is adequate. If there is any question as to the compatibility of the components, always perform a jar test with proportional amounts of each product, using water from the actual use source. Always read and follow label directions of all products. The most restrictive label language will apply. **DO NOT** mix more spray solution than you plan to apply that day.

### **Tank Mixing Instructions**

**Avalaire T-Methyl 4.5 F** is compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: water soluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials similar to fertilizers. No claim of compatibility with other products is implied. **DO NOT tank mix with copper-containing materials or highly alkaline pesticides, similar to Bordeaux mixture or lime sulfur.** Consult the intended tank mix partner product label for appropriate application rates and use instructions. Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. **Avalaire T-Methyl 4.5 F** may be applied in conjunction with chemically neutral liquid fertilizers. Avoid application in conjunction with highly alkaline fertilizers, including aqueous ammonia, as this may cause a degradation of the pesticide, resulting in reduced performance.



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.

### Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test. For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature. Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of specified label rate per acre. Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution must not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, **DO NOT** mix the ingredients in the same tank.

### Mixing Order

(As each product is added to the tank, be sure it is completely dispersed before adding any other product to the mix. Maintain agitation throughout mixing and application processes.)

- 1) **Water.** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) **Inductor.** If an inductor is used, rinse it thoroughly after each component has been added.
- 4) **Products in PVA bags.** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 5) **Water-dispersible products** (including, dry flowables - DF, wettable powders - WP, wettable dry granules – WDG, suspension concentrates - SC, or suspo-emulsions - SE).
- 6) **Water-soluble products.**
- 7) **Emulsifiable concentrates** (including oil concentrate when applicable).
- 8) **Water-soluble additives** (including AMS or UAN when applicable).
- 9) **Remaining quantity of water.**

Maintain constant agitation during application.

### CHEMIGATION USE INSTRUCTION

CALIFORNIA ALLOWS USE BY CHEMIGATION ONLY FOR CROPS OF BEANS, CUCURBITS (CUCUMBERS, MELONS, PUMPKINS, SQUASH), PEANUTS, SOYBEANS, STRAWBERRIES, [AND TURF].

### APPLICATION INFORMATION

Apply **Avalaire T-Methyl 4.5 F** only through the following types of irrigation systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border or drip (trickle) irrigation systems. **DO NOT** apply this product through any other type of irrigation system.

Note: any type of irrigation distribution of fungicide allowing untreated lapses or uneven distribution will result in poor control. Continually monitor calibration.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, 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 as needed.

**SPECIFIC INFORMATION FOR IRRIGATION SYSTEMS CONNECTED TO A PUBLIC WATER SUPPLY**

Public water system means a system for the provision 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.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer, or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, discharge the water from the public water system 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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.

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 drawn 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, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, including a positive displacement injection pump or equivalent, effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

### **SPECIFIC INFORMATION FOR APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS**

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, including 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.

### **SPECIFIC INFORMATION FOR FLOOD (BASIN), FURROW, AND BORDER CHEMIGATION**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity including a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops."

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: 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, including 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.

### **FUNGICIDE DILUTION MIX PREPARATION**

Clean all chemical mix tank, induction lines, mixing and induction motors and pumps of any prior use pesticide residues, scale or other foreign matter that may interfere with mixing or transfer of the pesticide dilution into the irrigation system. Flush with clean water.

Start by filling the mix tank at least ½ full. Begin agitation. Carefully add the required amount of **Avalaire T-Methyl 4.5 F** and then the rest of the water. Allow time to mix completely.

## **APPLICATION INSTRUCTIONS**

Observe ALL requirements in the System Requirements section above. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

In order to ensure a uniform pesticide suspension and application, be sure to continuously agitate the fungicide tank-mixture during mixing and application.

Inject a greater volume of a more dilute suspension per unit time in order to achieve greater accuracy in distribution and calibration. [An injection ratio of 1:100 is directed for greenhouse systems.]

**DO NOT** apply more irrigation water per acre than directed, decreased product performance may occur from the over diluted application. Determine the treatment rate as indicated in the directions for use for crop and pathogen and measure the intended areas of application.

Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 1/2 or 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water. Use sufficient water to ensure full coverage of foliage. **DO NOT** use an amount of water that could lead to excessive runoff from target plants. The amount of water will vary according to the amount of foliage requiring coverage and type of equipment but generally 25 to 100 gallons per acre is adequate.

Chemigation must not be attempted when wind speed favors drift. When system connections or fittings are seen to leak, stop chemigation and repair the component prior to restart. When nozzles are not providing uniform distribution, recalibrate immediately. System must always remain in good repair.

When chemigation is completed, allow sufficient flush time for pesticide to be cleared from all nozzles and lines prior to shutting off the flow of irrigation water.

### **Fertilizer co-mix Instructions:**

You may mix and apply this product with other chemically-neutral liquid fertilizers. However, the applicator needs to be aware that mixing this product with highly alkaline fertilizers (including aqueous ammonia) may cause problematic degradation of this product. Such a mix may prevent optimum control.

### **Sprinkler Irrigation Instructions:**

Observe all System Requirements and Application Instructions above. Always

observe local irrigation restrictions or ordinances.

Repair overhead irrigation systems to block the spray jets or nozzles nearest the operations control panels as to not allow treated water to contact the operator or operation station.

Calibrate the sprinkler system to deliver 0.1 to 0.25 inches of water per acre. Larger volumes of water may reduce product efficacy. Start sprinkler water flow, then begin injection of the mixed suspension of **Avalaire T-Methyl 4.5 F** into the irrigation water line. Continually monitor calibration to ensure proper application rate per acre. To ensure proper mixing of the suspension of **Avalaire T-Methyl 4.5 F** and the irrigation water, inject with a positive displacement pump into the main line just ahead of a right angle pipe turn (violent water pressure shear).

After overhead chemigation treatment with **Avalaire T-Methyl 4.5 F** has been completed, **DO NOT** irrigate treated area again for at least 24 hours to prevent washing the fungicide off the crop leaves and canopy.

## Drip Irrigation Instructions: (Mini-Micro Sprinklers, Strip Tubing, Trickle)

Observe all System Requirements and Application Instructions above.

### Crop Specific Directions

CROP	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	APPLICATION INSTRUCTIONS
<b>Beans, dry &amp; succulent</b>  <b>Including:</b> <b>Asparagus bean</b> <b>Blackeyed pea</b> <b>Broad bean</b> <b>Chickpea Cowpea</b> <b>Fava bean</b> <b>Garbanzo bean</b> <b>Grain lupine</b> <b>Kidney bean Lima bean</b> <b>Mung bean</b> <b>Navy bean Pinto bean</b> <b>Snap bean</b> <b>Sweet lupine</b> <b>Wax bean White lupine</b> <b>White Sweet Lupine</b>	Anthracnose (Colletotrichum spp.)  Gray Mold (Botrytis spp.)  White Mold (Sclerotinia spp.)	30-40 fl. oz.	1.0 - 1.4	For one application: Apply when 100% of plants have at least one open bloom or when conditions are favorable for disease development.
		20-30 fl. oz.	0.7 – 1.0	For multiple applications: Make first application when 10%-30% of plants have at least one open bloom, and follow with sequential applications on a 4-to 7-day interval. Apply prior to the development of disease for best results.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 40 fl. oz. of this product (1.4 lb ai/A) in a single application.</li> <li>Do not apply more than 80 fl. oz. of this product (2.8 lbs ai/A) per year.</li> <li>Do not make more than 4 applications at the lowest rate (20 fl. oz. or 0.7 lb ai/A) per year.</li> <li>Re-treatment interval: 4 days</li> <li>The REI is 1 day for all succulent beans and 3 days for dry beans.</li> <li>The <b>PHI (California)</b> is 14 days for succulent beans and 28 days for lima beans &amp; dry beans.</li> <li>The <b>PHI (all other states)</b> is 14 days for succulent and lima beans and 28 days for dry beans.</li> </ul>			
<b>Cucurbits</b>  (Including: Cantaloupes, Casaba, Cucumbers, Melons, Pumpkins, Summer Squash and Winter Squash, and Watermelons)  * Not for this use in California	Acremonium / Cephalosporium Hypocotyl Rot  Anthracnose* (Colletotrichum spp.) Gummy Stem Blight* (Didymella spp.) Powdery Mildew (Erysiphe spp.) Target Spot* (Corynespora spp.)  Belly Rots * (Rhizoctonia spp. and Fusarium spp.)	10 fl. oz.	0.35	Apply in-furrow, on top of the seeds at planting using at least 10 gallons of water per acre.  Scout fields as weather and conditions indicate infection could be present. Start treatments as plants begin to run or when disease is found. Repeat treatments at 7-14 day intervals.  Make Target Spot treatments at 7-day intervals as needed.  Ensure application volume is sufficient to allow complete coverage to run or drip off plant into soil.  This product is not effective in controlling <i>Phytophthora</i> spp. or <i>Pythium</i> spp.

CROP	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	APPLICATION INSTRUCTIONS
	<p><b>Suppression</b> of Vine Decline (<i>Monosporascus cannonballus</i>)</p> <p>Charcoal Rot (<i>Macrophomina spp.</i>)</p>			<p>Make applications for suppression of these diseases through buried drip irrigation lines (see chemigation section of this label) so to apply directly to the root zone. Start applications at emergence and continue at 14 day intervals until harvest.</p> <p>Weekly or biweekly applications, beginning 4-6 weeks prior to harvest will offer some suppression, but will not be as effective as a season-long program.</p>
<p>This product can be tank mixed with mancozeb or chlorothalonil for additional disease control and resistance management.</p> <p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 10 fl. oz. (0.35 lb ai/A) of this product in a single application</li> <li>Do not apply more than 60 fl. oz. of this product (2.1 lb. AI) per acre per year.</li> <li>Do not make more than 6 applications at 10 fl. oz. or 0.35 lb ai/A per year.</li> <li>REI is 1 day for all cucurbits.</li> <li>Re-treatment Interval: 14 days</li> <li>The PHI is 1 day for all cucurbits.</li> <li>See <b>Fungicide Resistance</b> above.</li> </ul>				
<b>Garlic</b> (treatment for garlic cloves prior to planting)	Penicillium Clove Rot	Make a Suspension of 20 fl. oz. (0.7 lb ai) per 100 gallons of water		<p>Continuously agitate solution tank mixture to ensure proper treatment suspension ratio.</p> <p><b>Treatment:</b> Immerse garlic cloves in this suspension for no less than five minutes. Remove cloves from solution and allow to drain and dry. Once dry, cloves are ready for planting.</p>
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 20 fl. oz. (0.7 lb ai) of product per 100 gallons of water in a single application</li> <li>Do not apply through any type of irrigation system.</li> <li>Do not apply more than 40 fl. oz. (1.4 lb ai/A) per year.</li> <li>Do not make more than 2 applications at the lowest rate (20 fl. oz. or 0.7 lb ai) per year.</li> <li>The REI is 3 days for garlic in furrow.</li> <li>The PHI is 0 days.</li> </ul>				
<p><b>Onions *</b></p> <p><b>Garlic (In Furrow)</b></p> <p>* Not for this use in California</p>	White Rot * ( <i>Sclerotinia spp.</i> )	1 fl. oz. (0.035 lb ai) per 1000 row feet (with 12 inch row spacing) OR 40 fl. oz. per acre	1.4	Spray product solution directly into the open planting furrow at the time of planting seed, sets or bulbs.

	Broadcast	
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**Restrictions:**

- Do not apply more than 1 fl. oz (0.035 lb ai) of product per 1000 row feet in a single application
- Do not apply through any type of irrigation system.
- Do not apply more than 40 fl. oz. (1.4 lb ai/A) per year.
- Do not apply more than 40 applications at the lowest rate (1 fl oz or 0.035 lb ai) per 1000 row feet in a year.
- The REI is 3 days for garlic in furrow.
- The PHI is 0 days.



CROP	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	APPLICATION INSTRUCTIONS
Peanuts	Early Leaf Spot ( <i>Cercospora</i> spp.) Late Leaf Spot ( <i>Cercospora</i> spp.) Leaf Spot ( <i>Cercospora</i> spp.) Limb Rot ( <i>Rhizoctonia</i> spp.) Rust ( <i>Puccinia</i> spp.) Web Blotch ( <i>Ascochyta</i> spp.)	10 fl. oz. per acre	0.35	Start treatments when disease is verified or 35 days after planting. Repeat as needed at 14 day intervals.  Use this product in conjunction with another non-benzimidazole fungicide.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 10 fl. oz (0.35 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 40 fl. oz. of this product (1.4 lb. ai/A) per year.</li> <li>REI is 1 day.</li> <li>Re-treatment Interval: 14 days</li> <li>Do not apply more than 4 applications at the lowest rate (10 fl oz or 0.35 lb ai/A) per year.</li> <li>The PHI is 14 days.</li> <li>See <b>Fungicide Resistance</b> above.</li> </ul>			
Potatoes	White Mold ( <i>Sclerotinia sclerotiorum</i> spp.)	20-30 fl. oz.	0.7-1.05	Treatments are most efficacious when made prior to disease development. Start treatments just around time of row closure to full bloom of the primary flower clusters (prior to petal drop). Spray must cover all susceptible plant parts, branches, flowers and stems for adequate control. Scout and reapply at 7 to 14 day intervals or as conditions occur for disease development.  <b>Early/Late Blight Control:</b> You may tank-mix this product with other blight-control fungicides.  Avalaire does not advise aerial application for control of this disease on this crop.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 30 fl. oz (1.05 lb ai/A) of this product in a single application</li> <li>Do not apply more than 80 fl. oz. of this product (2.8 lb. ai/A) per year.</li> <li>Do not make more than 4 applications at the lowest rate (20 fl. oz or 0.7 lb ai/A) per year.</li> <li>REI is 2 days.</li> <li>Re-treatment Interval: 7 days</li> <li>The PHI is 21 days.</li> </ul>			

<b>Soybeans</b>	Anthracnose ( <i>Colletotrichum spp.</i> )  Brown Spot ( <i>Septoria spp.</i> )  Frogeye Leaf Spot ( <i>Cercospora spp.</i> )	10-20 fl. oz.  Use higher rate as higher density canopy develops	0.35 – 0.7	Make first application at full bloom up until the pods are between 1/8" and 1/4" in length, followed by a second application 14-21 days thereafter. The second application must be made less than 14 days following bean formation or before average pod length is 1/4". When beans are under severe disease pressure, utilize the higher application rates.
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CROP	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	APPLICATION INSTRUCTIONS
	Pod and Stem Blight ( <i>Diaporthe</i> spp. and the imperfect stage, <i>Phomopsis</i> spp.)			FOR SEED BEANS ONLY- A single high-rate application may be made at the time of bean formation to improve seed quality.
	Purple Seed Stain ( <i>Cercospora</i> spp.)			
	White Mold ( <i>Sclerotinia</i> spp.)	15-20 fl. oz.	0.525-0.7	Make first application at early bloom (R-1 to R- 2 stage). A second application may be made 14 days later as conditions dictate. Spray must cover all susceptible plant parts, branches, flowers and stems for adequate control. <b>Aerial Application:</b> Use at least 5 gallons water.
	Aerial Blight (Suppression)	20 fl. oz.	0.7	First application must be made prior to infection, monitor climatic conditions and sentinel plots in your area. Reapply 14-21 days later if needed.  It is highly advised that a DMI/Triazole fungicide, including tebuconazole be tank mixed for Soybean Rust. First application must be made at R-1 with the tank mix for control. Reapply as conditions warrant.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 20 fl oz (0.7 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 40 fl. oz. of this product (1.4 lb. ai/A) per year.</li> <li>Do not make more than 2 applications per year.</li> <li>Do not graze or feed treated vines or hay to livestock.</li> <li>Applications later than 14 days after pods average ¼ inch in length are prohibited.</li> <li>Retreatment Interval: 14 days</li> <li>The REI is 1 day.</li> <li>The PHI is 21 days.</li> </ul>			
<b>Strawberries</b>	Fruit Rot ( <i>Botrytis</i> spp.) Leaf Blight ( <i>Dendrophoma</i> spp.) Leaf Scorch ( <i>Diplocarpon</i> spp.) Powdery Mildew ( <i>Sphaerotheca</i> spp.)	15-20 fl. oz.  Use highest rate under severe conditions	0.525-0.7	Start treatments as blooming begins, repeat at 7 to 10 day intervals. Use higher rates when severe disease pressure appears.

	<p>Suppression only: Crown Rot* (<i>Colletotrichum spp.</i>)</p>	<p>15-20 fl. oz.</p>	<p>0.525-0.7</p>	<p>Begin applications after establishment of the transplants and continue through first bloom at 10-to 14-day intervals. Use the higher rate if the fields have a history of <i>Colletotrichum</i> crown rot and/or conditions are favorable for development of the disease. Will not control <i>Phytophthora</i> species.</p>
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CROP	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	APPLICATION INSTRUCTIONS
<p><b>Restrictions:</b>            *Not registered for use in California.</p> <ul style="list-style-type: none"> <li>• Do not apply more than 20 fl. oz (0.7 lb ai/A) of this product in a single application</li> <li>• Do not apply more than 80 fl. oz. of this product (2.8 lb. ai/A)per year.</li> <li>• Do not make more than 5 applications at the lowest rate (15 fl. oz or 0.525 lb ai/A) per year.</li> <li>• REI is 1 day.</li> <li>• Re-treatment Interval: 7 days</li> <li>• The PHI is 1 day.</li> <li>• See <b>Fungicide Resistance</b> above.</li> </ul>				
Sugarbeets	Cercospora Leaf Spot ( <i>Cercospora spp.</i> )	10-20 fl. oz.  (in CA use 10 fl. oz. rate)	0.35-0.7  (0.35 in CA)	<p>Make first application <b>prior</b> to disease emergence, when environmental conditions are favorable for disease development. As required, a second application may be made with a NON-benzimidazole fungicide within 14 days.</p> <p>If resistant strains are known to be in the area, a tank mix with a protectant type fungicide is advised. For areas east of the Rocky Mountains:</p>
	Powdery Mildew ( <i>Erysiphe spp.</i> )	10-20 fl. oz.  (in CA use 10 fl. oz. rate)		<p>Start treatments immediately, as disease is verified, follow with a NON-Benzimidazole fungicide as needed or within 14 days after. Tank mixes are advised for this disease.</p>
	<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 20 fl oz (0.7 lb ai/A) of this product in a single application.</li> <li>• Do not apply more than 10 fl oz (0.35 lb ai/A) of this product in a single application in CA.</li> <li>• Do not apply more than 60 fl. oz. of this product (2.1 lb ai/A) per year.</li> <li>• Do not apply more than 6 application at the lowest rate (10 fl. oz or 0.35 lb ai/A) per year..</li> <li>• REI is 1 day.</li> <li>• Re-treatment Interval: 14 days</li> <li>• The PHI is 21 days.</li> <li>• Do not apply this product more than once per season for Cercospora spp.</li> <li>• See <b>Fungicide Resistance</b> above.</li> </ul>			

## Triticale and Fall Seeded Wheat Applications

CROPS	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	APPLICATION INSTRUCTIONS
<b>Triticale and Fall Seeded Wheat</b>  (Idaho, Oregon and Washington Only)	Eye Spot  Foot Rot  Strawbreaker <b>(Pseudocercospora spp.)</b>	20 fl. oz.	0.7	Make applications after tillering but before stem elongation begins. Apply by ground or aerial means.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 20 fl. oz. (0.7 lb ai/A) of this product in a single application.</li> <li>• Do not apply more than 20 fl. oz. of this product (0.7 lb. ai/A) per year.</li> <li>• REI is 24 hours.</li> <li>• Make only one application per year.</li> <li>• The PHI is 90 days</li> <li>• Do not cut hay within 90 days of application or allow livestock to graze in treated area prior to harvest.</li> </ul>			

## Tree Crop Applications

TREE CROPS	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS
<b>Almonds</b>	Brown Rot Blossom Blight ( <i>Monilinia spp.</i> ) Jacket Rot ( <i>Monilinia, Sclerotinia, Botrytis</i> ) Leaf Blight ( <i>Seimatosporium</i> ) Scab ( <i>Cladosporium spp.</i> )	20-30 fl. oz.	0.7 –1.05		Initiate applications at pink bud and continue through petal fall.  Pink Bud applications can be made alone for Brown Rot. However tank mix with labeled contact type, multi-site fungicides for later applications for broad spectrum control and resistance management.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• Do not apply more than 30 fl. oz (1.05 lb ai/A) of this product in a single application.</li> <li>• Do not apply more than 60 fl. oz. of this product (2.1 lbs ai/A) per year.</li> <li>• Do not apply more than 3 applications at the lowest rate (20 fl. oz or 0.7 lb ai/A) per year.</li> <li>• REI is 3 days.</li> <li>• The PHI is 1 day.</li> <li>• See <b>Fungicide Resistance</b> above.</li> </ul>				
<b>Apples</b>	Apple Scab ( <i>Venturia spp.</i> ) Black Pox * ( <i>Helminthosporium papulosum</i> ) Black Rot ( <i>Botryosphaeria spp.</i> ) Brooks Fruit Spot ( <i>Mycosphaerella spp.</i> ) Flyspeck ( <i>Zygothiala spp.</i> ) Powdery Mildew ( <i>Podosphaera spp.</i> ) Sooty Blotch ( <i>Gloeodes spp.</i> ) White Rot * ( <i>Botryosphaeria spp.</i> )	15-20 fl. oz. (except CA)  30 fl. oz. (CA only)	0.525 -.7  1.0 lb. (CA only)	3.75 - 5 fl. oz.  (0.13 – 0.175 lb ai)  7.5 fl. oz. (0.26 lb ai) (CA only)	Initiate applications at green tip and continue at 5 to 10 day intervals continuing through petal fall.  Continue cover sprays at 7 to 14 day intervals as needed.
	<b>Preharvest use to control Post-Harvest Diseases on Apples</b>				
* Not for this use in California	Storage Rot Blue Mold ( <i>Penicillium expansum</i> ) Gray Mold ( <i>Botrytis cinerea</i> ) Bulls-Eye Rot ( <i>Neofabraea spp.</i> )	1.0 fl. oz.	0.035 lb.	3.75-5 fl. oz. (0.13 – 0.175 lb ai)	Apply as a pre-harvest spray within 2 weeks to 3 days of harvest. Application closer to harvest provides better efficacy. Application of a non- benzimidazole post-harvest fungicide including Pentobec® [Pyrimethanil] or Scholar® [Fludioxonil] will provide additional protection from post-harvest diseases.



**Restrictions:**

- Do not apply more than 20 fl. oz (0.7 lb ai/A) of this product in a single application (excluding CA).
- CA Only: Do not apply more than 30 fl. oz (1.0lb ai/A) of this product in a single application.
- Do not apply more than 80 fl. oz. of this product (2.8 lbs ai/A) total including both applications beginning at petal fall and pre-harvest applications to control post-harvest diseases.
- Do not apply more than 80 applications at the lowest rate (1.0 fl oz or 0.035 lb ai) for Preharvest use
- Do not apply more than 5 applications at the lowest rate (15 fl. oz or 0.525 lb ai/A) per year.
- Do not use benzimidazole fungicide as Mertect post-harvest following a pre-harvest application of this product.
- REI is 2 days.
- Re-treatment Interval: 5 days for green tip through petal fall.
- Re-treatment Interval: 7 days.
- The PHI is 1 day.
- See **Fungicide Resistance** above.

TREE CROPS	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS
Apricots	Brown Rot ( <i>Monilinia spp.</i> ) Blossom Blight ( <i>Monilinia spp.</i> ) Fruit Brown Rot ( <i>Monilinia spp.</i> )	20-30 fl. oz.  (in CA use 30 fl. oz.)	0.7 - 1.05	6.7 - 10 fl. oz. (0.23 – 0.35 lb ai)	Make first application at early bloom (red bud), followed by a second application at full bloom.  Under severe disease pressure, make additional applications at 10 to 14 day intervals beginning at full bloom, through final pre-harvest sprays.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 30 fl oz (1.05 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 80 fl. oz. of this product (2.8 lbs ai/A) per year.</li> <li>Do not apply more than 4 applications at the lowest rate (20 fl oz or 0.7 lb ai/A) per year.</li> <li>REI is 2 days.</li> <li>Re-treatment Interval: 10 days</li> <li>The PHI is 1 day.</li> <li>See <b>Fungicide Resistance</b> above.</li> </ul>				
Cherries Sweet and Tart	Brown Rot ( <i>Monilinia spp.</i> ) Blossom Blight ( <i>Monilinia spp.</i> ) Fruit Brown Rot ( <i>Monilinia spp.</i> )	20-30 fl. oz.  (in CA use 30 fl. oz.)	0.7 - 1.05	6.7- 10 fl. oz. (0.23 – 0.35 lb ai)	Make first application at early bloom (popcorn stage), followed by a second application at full bloom.  Under severe disease pressure, make additional applications at 10 to 14 day intervals beginning at full bloom, through final pre-harvest sprays.
	Cherry Leaf Spot ( <i>Coccomyces spp.</i> )	22.5-30 fl. oz.	0.8 - 1.05	7.5-10 fl. oz. (0.26 – 0.35 lb ai)	Initiate applications as leaves begin to unfold, near petal fall or before. Continue at first, second and third cover sprays at 10 to 14 day intervals.
	Powdery Mildew ( <i>Podosphaera spp.</i> ) and ( <i>Sphaerotheca spp.</i> )	20-30 fl. oz.  (in CA use 30 fl. oz. Rate) <b>PLUS</b> 22.5-30 fl. oz.	0.7 - 1.05  <b>PLUS</b> 0.79 – 1.05 lb.	6.7-10 fl. oz. (0.23 – 0.35 lb ai)  <b>PLUS</b> 7.5-10 fl. oz. (0.26 – 0.35 lb ai)	Make first application at early bloom (popcorn stage), followed by a second application at full bloom.  <b>PLUS</b>  <b>PLUS</b> Also make applications of this product at shuck fall and first cover.

**Restrictions:**

- Do not apply more than 30 fl. oz (1.05 lb ai/A) of this product in a single application.
- Do not apply more than 80 fl. oz. of this product (2.8s ai/A) per year.
- Do not apply more than 4 applications at the lowest rate (20 fl oz or 0.7 lb ai/A) per year. REI is 2 days.
- Re-treatment Interval: 10 days
- The PHI is 1 day.
- See **Fungicide Resistance** above

TREE CROPS	DISEASES	PRODUCT per ACRE	POUNDS of AI per ACRE (lb ai/A)	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS
Nectarines	Brown Rot ( <i>Monilinia spp.</i> ) Blossom Blight ( <i>Monilinia spp.</i> ) Fruit Brown Rot ( <i>Monilinia spp.</i> )	20-30 fl. oz.  (in CA use 30 fl. oz.)	0.7 - 1.05	6.7 - 10 fl. oz.  (0.23 – 0.35 lb ai)	Make first application at early bloom (pink bud), followed by a second application at full bloom.  Under severe disease pressure, make additional applications at 10 to 14 day intervals beginning at full bloom, through final pre-harvest sprays.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 30 fl. oz (1.05 lb ai/A) of this product in a single application</li> <li>Do not apply more than 80 fl. oz. of this product (2.8 lbs ai/A) per year.</li> <li>Do not apply more than 4 applications at the lowest rate (20 fl oz or 0.7 lb ai/A) per year.</li> <li>REI is 2 days.</li> <li>Re-treatment Interval: 10 days</li> <li>The PHI is 1 day.</li> <li>See <b>Fungicide Resistance</b> above.</li> </ul>				
Peaches	Brown Rot ( <i>Monilinia spp.</i> ) Blossom Blight ( <i>Monilinia spp.</i> ) Fruit Brown Rot ( <i>Monilinia spp.</i> )	20-30 fl. oz.  (in CA use 30 fl. oz.)	0.7 - 1.05 lb. AI per acre	6.7 - 10 fl. oz.  (0.23 – 0.35 lb ai)	Make first application at early bloom (pink bud), followed by a second application at full bloom.  Under severe disease pressure, make additional applications at 10 to 14 day intervals beginning at full bloom, through final pre-harvest sprays.
	Peach Scab [*] ( <i>Cladosporium spp.</i> )	20-30 fl. oz. (in CA use 30 fl. oz. <b>PLUS</b> 22.5-30 fl. oz.)	0.7 - 1.05 lb. AI per acre	6.7-10 fl. oz. (0.23 – 0.35 lb ai) <b>PLUS</b> 7.5-10 fl. oz. (0.26 – 0.35 lb ai)	Make first application at early bloom (pink bud), followed by a second application at full bloom.  <b>PLUS</b> Apply at shuck split and at first cover sprays.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 30 fl. oz (1.05 lb ai/A) of this product in a single application</li> <li>Do not apply more than 80 fl. oz. of this product (2.8 lbs ai/A) per year.</li> <li>Do not apply more than 4 applications at the lowest rate (20 fl oz or 0.7 lb ai/A) per year.</li> <li>REI is 2 days.</li> <li>Re-treatment Interval: 10 days</li> <li>The PHI is 1 day.</li> </ul> See <b>Fungicide Resistance</b> above. [*] Not for Use in California				

<b>Pecans</b>	Brown Spot <b>(Cercospora spp.)</b> Downy Spot <b>(Mycosphaerella spp.)</b> Liver Spot ( <b>Gnomonia spp.</b> ) Powdery Mildew <b>(Microsphaerella spp.)</b> Scab <b>(Fusicladium spp.)</b> Stem End Blight <b>(Botryosphaeria spp.)</b> Zonate Leaf Spot	20 fl. oz.	0.7 lb.		Make first application as leaves begin to show. Minimum retreatment interval of 21 days until shuck split.  Use highest rates for aerial applications in AR, GA, LA, MS, OK, TX.
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	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 20 fl. oz (0.7 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 60 fl. oz. of this product (2.1 lbs ai/A) per year.</li> <li>Do not apply more than 3 applications at the lowest rate (20 fl oz or 0.7 lb ai/A) per year.</li> <li>REI is 3 days.</li> <li>Re-treatment Interval: 21 days</li> <li>The PHI is 1 day.</li> <li>Do not apply after shuck split.</li> </ul>				
Pistachios	Shoot Blight ( <b>Botrytis spp. and Botryosphaeria spp.</b> )	30-40 fl. oz.	1.05 – 1.4 lb.		Make application at bloom.  Ground application: apply at least 100 gallons per acre Aerial application: apply at least 20 gallons per acre and fly directly over every row of trees.
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 40 fl oz (1.4 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 40 fl. oz. of this product (1.4 lb. ai/A) per year.</li> <li>Do not apply more than 1 application per year.</li> <li>REI is 3 days.</li> </ul>				
Plums / Prunes	Brown Rot ( <b>Monilinia spp.</b> )	20-30 fl. oz.	0.7 - 1.05	6.7 - 10 fl. oz.	Initiate application at early bloom (green tip), followed by a second application at full bloom.
	Blossom Blight ( <b>Monilinia spp.</b> )	(in CA use 30 fl. oz.)		(0.23 – 0.35 lb ai)	
	Fruit Brown Rot ( <b>Monilinia spp.</b> )				Under severe disease pressure, make additional applications at 10 to 14 day intervals beginning at full bloom, through final <u>pre-harvest</u> sprays.
	Black Knot ( <b>Dibotryon spp.</b> )	20 - 30 fl. oz.  (in CA, use 30 fl. oz.)	0.7 - 1.05	6.7 - 10 fl. oz.  (0.23 – 0.35 lb ai)	Initiate applications before bloom, then at petal fall and first 3 cover sprays at 10 to 14 day intervals.
	Leaf Spot ( <b>Coccomyces spp.</b> )	20 - 30 fl. oz.  (in CA use 30 fl. oz.)	0.7 - 1.05	6.7 - 10 fl. oz.  (0.23 – 0.35 lb ai)	Initiate applications as leaves begin to unfold, near petal fall or before. Continue at first, second and third cover sprays at 10 to 14 day intervals.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 30 fl. oz (1.05 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 80 fl. oz. of this product (2.8 lbs ai/A) per year.</li> <li>Do not apply more than 4 applications at the lowest rate (20 fl oz or 0.7 lb ai/A) per year.</li> <li>Do not apply after shuck split.</li> <li>REI is 2 days.</li> <li>Re-treatment Interval: 10 days</li> <li>The PHI is 1 day.</li> <li>See <b>Fungicide Resistance</b> above.</li> </ul>					

## Conifer Applications

TREE CROPS  CONIFER spp. (Not for use in California)	DISEASES	MINIMUM PRODUCT/Acre & GALLONAGE per APPLICATION	APPLICATION INSTRUCTIONS
<p>(Pines)</p> <p>Austrian Pine</p> <p>Christmas Trees</p> <p>Red Pine</p> <p>Scots Pine</p>	<p>Tip Blight (<b>Diplodia spp.</b>)</p>	<p>20 fl. oz. product/acre (0.7 lb ai/A) applied in at least 100 gal/acre</p>	<p>Make first application at bud break, followed by a second application shortly prior to needle emergence, usually 10-14 days after bud break. A third application may be made approximately two weeks following needle emergence.</p> <p>Coverage may improve by adding a spreader/sticker.</p>
	<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 60 fl. oz. of this product (2.1 lbs ai/A) per year.</li> <li>• Do not apply more than 20 fl. oz (0.7 lb ai/A) of this product in a single application.</li> <li>• Do not allow livestock to graze treated area.</li> <li>• Do not apply more than 3 applications at the lowest rate (20 fl. oz or 0.7 lb ai/A) per year.</li> <li>• The REI is 12 hours for conifers.</li> <li>• Re-treatment Interval: 4 days</li> </ul>		
<p>(Fir)</p> <p>Douglas</p>	<p>Rhabdocline Needle Cast</p> <p>Swiss Needle Cast (<b>Phaenocarpa spp.</b>)</p>	<p>20 fl. oz. product/acre (0.7 lb ai/A) applied in at least 50 gal/acre</p>	<p>Make first application near the beginning of May, followed by applications every four (4) weeks.</p> <p>Coverage may improve by adding a spreader/sticker.</p> <p>When using mist-blower types of sprayers, use minimum gallonage while using higher gallonage with conventional sprayers.</p>
	<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 100 fl. oz. of this product (3.5 lbs ai/A) per year.</li> <li>• Do not apply more than 20 fl. oz (0.7 lb ai/A) of this product in a single application.</li> <li>• Do not apply more than 5 applications of this product at the lowest rate (20 fl. oz or 0.7 lb ai/A) per year</li> <li>• Do not graze treated area.</li> <li>• The REI is 12 hours for conifers.</li> <li>• Re-treatment Interval: 4 weeks</li> </ul>		



## Seedling Treatment Applications

SEEDLING TREATMENT	DISEASES	MIX RATIO	APPLICATION INSTRUCTIONS
Longleaf Pine	Brown Needle Blight ( <i>Scirrhia</i> spp.)	1.25 fl. oz. product (0.04375 lb ai) to 9.5 ounces dry Kaolinite clay for seedling roots	Prior to application, immerse the roots of the seedlings in clean water. The roots may then be treated with a mixture of Kaolinite and this product.
Loblolly Pine Longleaf Pine Slash Pine	Fusarium spp. and Rhizoctonia Root Rot	2.5 fl. oz. product (0.0875 lb ai) to 50 ounces Kaolinite clay, add enough water to make a slurry	This product is not effective in controlling <i>Phytophthora</i> spp. or <i>Pythium</i> spp.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 1.25 fl. oz (0.04375 lb ai) to 9.5 oz of dry Kanolinite clay in a single application to Longleaf Pines.</li> <li>Do not apply more than 2.5 fl. oz (0.0875 lb ai) to 50 oz of Kanolinite clay in a single application to Loblolly, Longleaf, and Slash Pines.</li> <li>Do not apply this product to seedling foliage.</li> <li>DO NOT ALLOW EXCESSIVE DRYING OF ROOTS or exposure to freezing temperatures or temperatures greater than 90°F</li> </ul>			

## HORTICULTURAL APPLICATIONS

### GREENHOUSE, NURSERY, LANDSCAPE, AND INTERIORSCAPE ANNUAL AND PERENNIAL FLOWERS, BEDDING PLANTS, FOLIAGE PLANTS, GROUND COVERS, PLUS DECIDUOUS AND EVERGREEN TREES AND SHRUBS

**Avalaire T-Methyl 4.5 F** provides broad-spectrum control of many foliar, stem, and below-ground diseases on a wide range of horticultural plants and commercially important plants grown or maintained under a variety of conditions. **Avalaire T-Methyl 4.5 F** is also effective as a pre-plant dip on cuttings and bulbs. For foliar applications, begin treatments when disease first appears or during suspected periods of disease incidence. Use 7- to 14-day spray intervals with 14 days being for preventive treatments and the 7-day interval for times when conditions are conducive to disease development. Add an acceptable wetting agent to the spray tank to increase product efficacy for hard-to-wet foliage. Use a spreader-sticker when excessive and repeated foliar wetting occurs. **Avalaire T-Methyl 4.5 F** be applied as a ground application using handheld, mechanical or motorized spray equipment, or as a chemigation spray or through an applicable sprinkler irrigation system; or as an overhead application where applicable. Use **Avalaire T-Methyl 4.5 F** to control listed diseases on non-commercial fruit and nut trees.

Not for homeowner use. For use only by certified applicators or those under their immediate supervision.

**Note:** **Avalaire T-Methyl 4.5 F** has been determined to be safe for use on the plant types listed in these directions for use based on cumulative data derived from research trials and historical field use. As all species and cultivars have not been tested, perform trial applications if a user wishes to make an application to a plant type not listed on the label but found on a similar use site and for disease that is listed on the label. To conduct a trial application, apply at least two applications to at least 25 trial plants at the highest concentration, 7 days apart. Evaluate 7 days after the last application before initiating full-scale application.

#### RESTRICTIONS:

- The REI is 12 hours.
- Do not use fruit, nuts or sap from trees treated with this product as food or feed. Do not apply this product to home orchards or backyard fruit trees after fruit set.
- Do not apply more than 3.0 lbs. AI per acre per year.

#### APPLICATION INSTRUCTIONS:

Apply material with properly calibrated, hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation, flood, or drip systems. Begin applications when disease first appears and repeat at 7-14 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development of disease. For hand held, mechanical, or motorized applications, mix 8-24 oz (0.28 – 0.84 lb ai) of **Avalaire T-Methyl 4.5 F** per 100 gal water (0.5-1.5 teaspoons per gal) and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Spray volume may range up to 400 gallons of finished spray per acre depending upon plant species and plant growth stage. For applications through irrigations systems, refer to use rates indicated in the foliar application chart. For small volume applications less than 100 gallons, divide directed rate by 16 to get the number of teaspoons of **Avalaire T-Methyl 4.5 F** per gal.

PLANT TYPE	INCLUDING BUT NOT LIMITED TO:
Herbaceous Bedding	Ageratum, Begonia, Canna, Coleus, Dahlia, Dusty Miller, Foxglove, Fuchsia, Geranium, Impatiens, Lavender, Marigold, Pansy, Petunia, Pinks, Primrose, Salvia, Statice, Strawflower, Tickseed, Verbena
Flowering	Chrysanthemum, Hydrangea, Hollyhock, Iris, Lily, Poinsettia
Tropical Foliage	Dieffenbachia, Dracaena, English Ivy, Philodendron, Pothos
Woody Ornamentals	Azalea, Hibiscus, Holly, Ligustrum, Rhododendron, Rose, Pyracantha
Evergreen Trees	Douglas Fir, Fir, Larch, Pine, Spruce
Deciduous Trees*	Ash, London Plane, Maple, Oak, Sycamore, Walnut
Flowering Trees*	Cherry, Crabapple, Hawthorn, Mountain Ash, Pear

\***DO NOT** use fruit or nuts from treated trees as food or feed.

## FOLIAR SPRAY

### PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Anthracnose	Woody ornamentals, shade trees <sup>1</sup>
Ascochyta Blight	Herbaceous ornamentals
Black spot	Roses
Botrytris (Gray Mold)	Woody and herbaceous ornamentals
Brown Rot	Woody and herbaceous ornamentals
Colletotrichum	Woody and herbaceous ornamentals
Cercospora Leaf Spot	Woody and herbaceous ornamentals
Corynespora Leaf Spot	Ligustrum
Didymellina Leaf Spot	Iris
Diplodia Tip Blight ( <i>Diplodia pinea</i> )	Shade and ornamental trees
Ovulinia	Azalea, rhododendron <sup>2</sup>
Entomosporium Leaf Spot	Woody and herbaceous ornamentals
Fuscaladium Leaf Scab	Woody and herbaceous ornamentals
Phomopsis Blight	Woody and herbaceous ornamentals
Pine Tip Blights	Woody ornamentals
Powdery Mildew	Woody and herbaceous ornamentals, ornamental nut and fruit trees
Rust Diseases	Ornamental nut and fruit trees
Ramularia Leaf Spot	Herbaceous ornamentals
Scab	Pyracantha, flowering crab, ornamental fruit and nut trees
Septoria Leaf Spot	Woody and herbaceous ornamentals
Venturia Leaf Scab	Woody and herbaceous ornamentals

<sup>1</sup>Begin at bud and make 2 or 3 additional applications at 10- to 14-day intervals.

<sup>2</sup>Begin treatment as flowers open. Addition of a spray surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants including roses.

#### Hydraulic Application Mixing Instructions

Add the required amount of **Avalaire T-Methyl 4.5 F** to a partially filled spray tank agitated by mechanical or hydraulic means and then add the remaining volume of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated sprayequipment.

#### Application Concentrations (Mechanical or Hand-Held):

Use the labeled amount of **Avalaire T-Methyl 4.5 F** per 100 gallons of water for the prevention and control of the diseases shown below.

#### Special Instructions For Proportional Injectors (e.g. Dosatron, Dosmatic, Anderson, and similar equipment):

Determine the treatment rate for crop and pathogen from the foliar application table below. Determine the injection ratio for the individual system to be used for application. For systems using a 1:100 ratio, measure and add the exact amount of directed material per 100 gallons to each gallon of water in a stock bucket or tank. For systems using a 1:200 ratio, multiply the directed amount per 100 gallons by 2. For systems using a 1:50 ratio, divide the directed amount per 100 gallons added by 2. For systems using 1:16 ratio, divide the directed amount per 100 gallons by 6. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ratio of 1:100 is directed for most greenhouse and nursery systems.

**FOLIAR DISEASES**

DISEASE(S) CONTROLLED	CONCENTRATION OF Avalaire T-Methyl 4.5 F FL OZ/100 GALS	APPLICATION INSTRUCTIONS
Anthracnose ( <i>Colletotrichum</i> )	10.75-20 (0.376-0.7 lb ai)	Apply as buds break or at first sign of disease. Repeat application at 7- to 14- day intervals as needed during disease period.
Black Spot of Rose ( <i>Diplocarpon rosae</i> )	10.75-20 (0.376-0.7 lb ai)	Apply early summer or at first sign of disease. Repeat application every 7 to 14 days as needed during disease period.
Brown Rot and Blight ( <i>Monlinia</i> , <i>Sclerotina</i> , <i>Whetzellinia</i> )	10.75-20 (0.376-0.7 lb ai)	Apply late spring or at first sign of disease. Repeat application every 7 to 14 days as needed during the disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	10.75-20 (0.376-0.7 lb ai)	Apply as buds break. Repeat application every 7 to 14 days during disease period. Effective control requires coverage during expansion. Rotations with chlorothalonil or propiconazole can be utilized.
Leaf Spots and Blights caused by: <i>Ascochyta</i> , <i>Blumeriella</i> , <i>Botrytis</i> , <i>Cercospora</i> , <i>Coccomyces</i> , <i>Corynespora</i> , <i>Curvularia</i> , <i>Didymellina</i> , <i>Entomosporium</i> , <i>Fabraea</i> , <i>Fusarium</i> , <i>Ramularia</i> , <i>Rhizoctonia</i> , <i>Marssoninia</i> , <i>Mycosphaerella</i> , <i>Myrothecium</i> , <i>Phoma</i> , <i>Physalasporea</i> , <i>Schizothyrium</i> , <i>Septoria</i> , <i>Sphaceloma</i>	10.75-20 (10-14.5; California Only) (0.376-0.7 lb ai) (0.376-0.5075 lb ai CA only)	Make applications when disease symptoms first appear. Repeat every 7 to 14 days during disease period. Rotations and/or tank mix combinations with chlorothalonil or mancozeb can be used.
Ovulinia Blight	7.25-20 (0.25375-0.7 lb ai)	Apply as flowers open. Repeat every 7 to 14 days during disease period.
Powdery Mildews <i>Erysiphe</i> , <i>Microsphaera</i> , <i>Phyllactinia</i> , <i>Podosphaera</i> , <i>Oidium</i> , <i>Sphaerotheca</i>	10-20 (0.35-0.7 lb ai)	Apply when disease first appears and repeat application every 7 to 14 days. Rotations with other effective products can be used. Tank mix combinations with mancozeb or triadimefopon can be utilized.
Rust Diseases caused by: <i>Puccinia</i> , <i>Gymnosporangium</i> , <i>Uromyces</i>	10.75-20 (0.376-0.7 lb ai)	Apply late spring or when symptoms first appear. Repeat applications every 7 to 14 days during disease period. Rotations with other effective products can be used.
Tip Blight of Pine <i>Sphaeropsis sapinae</i> , <i>Diplodia pinea</i>	14.5-20 (0.51-0.7 lb ai)	Begin applications in the spring when new growth starts. Make a second application just prior to needle emergence from the sheath and a third application 14 days later. Ensure thorough coverage.
Twig Blights, Cankers, and Diebacks <i>Diaporthe</i> , <i>Kabatina</i> , <i>Phoma</i> , <i>Phomopsis</i>	14.5-20 (0.51-0.7 lb ai)	Apply when symptoms first appear. Repeat applications every 7 to 14 days during disease period.

DISEASE(S) CONTROLLED	CONCENTRATION OF Avalaire T-Methyl 4.5 F FL OZ/100 GALS	APPLICATION INSTRUCTIONS
<p><b>RESTRICTIONS for Foliar Spray Applications:</b>  <b>Maximum Single Application Rates:</b>  <b>Ornamentals:</b> Do not exceed the maximum single application rate of 85.3 oz. <b>Avalaire T-Methyl 4.5 F</b> per acre (3.0 lbs. thiophanate-methyl active ingredient per acre per year).            Do not use fruit from treated crabapple or pear trees for food purposes.  <b>Cut Flowers:</b> Do not exceed the maximum single application rate of 14.2 oz. <b>Avalaire T-Methyl 4.5 F</b> per acre (0.5 lb. thiophanate-methyl active ingredient per acre per year).  <b>Yearly Maximum Application:</b>  <b>All Ornamentals:</b> Do not apply more than 66.6 gallons <b>Avalaire T-Methyl 4.5 F</b> (300 lbs. thiophanate-methyl active ingredient per acre per year).</p>		

**Adjuvants:** Where rainfall and/or overhead irrigation is the norm, use of a compatible spreader/sticker is suggested. Where wetting of foliage is difficult, use a compatible wetting agent. Follow the phytotoxicity precautions described in the **HORTICULTURAL APPLICATIONS** section of this label.

### SOIL DRENCH APPLICATIONS

**Mixing Instructions:** Add required amount of **Avalaire T-Methyl 4.5 F** to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation throughout application to keep the material in suspension.

**Application Concentrations/Rates and Timing for Disease Control:** Create a drench solution by mixing 7.5 to 20 fl. oz. (0.26-0.7 lb ai) of **Avalaire T-Methyl 4.5 F** per 100 gallons of water. Apply as a drench or directed spray using hand held, mechanical, or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler irrigation systems, after seeding or sticking of cuttings (8 fl. oz. or 0.28 lb ai) or after transplanting (12-16 fl. oz. or 0.42- 0.56 lb ai) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is 0.25-3.0 pints of finished mixture per sq. ft. depending on the media type and depth (about 4 fl. oz. per 4 inch pot or 8 fl. oz. per 6 inch pot). Make repeat applications at 21- to 28-day intervals depending on disease presence and conditions for disease development.

**DO NOT** exceed 300 pounds active ingredient per acre per year from all thiophanate-methyl containing products.

**Plant Types:** Containerized woody shrubs, trees, herbaceous/bedding, flowering, and tropical foliage plants and flowers and bedding plants in the landscape.

**Note:** **DO NOT** apply this product to plug trays or seedling flats at time of seeding.

**Soil Diseases Controlled:** Stem, Crown, and Root Rots caused by *Botrytis*, *Cylindrocladium*, *Fusarium*, *Gliocladium*, *Myrothecium*, *Penicillium*, *Ramularia*, *Rhizoctonia*, *Sclerotinia*, and Black Root Rot *Thielaviopsis*.

**Note:** *Pythium*, *Phytophthora* and *Cylindrocladium spathiphylli* are not controlled by **Avalaire T-Methyl 4.5 F**. Tank mix combinations with metalaxyl, mefenoxam, etridiazole, fosetyl-Al, or mono and dipotassium salts of phosphorous acid or propamocarb are required for the control of *Pythium* and *Phytophthora*.

### PLANT DIP TREATMENT

**Mixing Instructions:** Mix as described in the **FOLIAR DISEASES** and **SOIL DRENCH APPLICATIONS** sections of this label. Maintain continuous agitation during application.

#### Application Concentration and Dipping Time

**Note:** Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.

**Plants or Cuttings:** Use 14.5 to 20 fl. oz. (0.51-0.7 lb ai) of **Avalaire T-Methyl 4.5 F** per 100 gallons of water. Immerse plants or cuttings for 10 to 15 minutes, remove, and allow to drain and dry. Note that the **PERSONAL PROTECTIVE EQUIPMENT** section of this label included protective clothing for dip treatment. **Bulbs, Corms, Tubers, and Rhizomes:** Use 14.5 to 20 fl. oz. (0.51-0.7 lb ai) of **Avalaire T-Methyl 4.5 F** per 100 gallons of water or two teaspoons of **Avalaire T-Methyl 4.5 F** per gallon of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80-85°F) within 48 hours of digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been

cured.

**Plant Types:** Plants, cuttings, cane sections of woody herbaceous, flowering and tropical foliage plants. Bulbs, corms, tubers, and rhizomes of plants including but not limited to Caladium, Easter Lily, Tulip, Gladiolus, Daffodil, Iris.

**Diseases Controlled:** *Botrytis, Cythodrocladium, Fusarium, Gliocladium, Myrothecium, Penicilium, Ramularia, Rhizoctonia, Sclerotinia, and Thielaviopsis.*

**BACKYARD FRUIT AND NUT TREES[\*]**

[\*Not approved for this use in California] Certified applicators:

**Restrictions:**

- **DO NOT** apply to home orchards/backyard fruit or nut trees after fruit or nutset.
- **DO NOT** apply to fruit or nut trees other than almond, apple, pear, pecan, pistachio, apricot, cherry, nectarine, peach, plum or prune.

For bearing fruit and nut trees, use the following application rates. (For a list of diseases controlled see the table above under Foliar Application).

<b>Crop</b>	<b>Application Rate Fluid Ounces product/Acre</b>	<b>Yearly Maximum Fluid Ounces product/Acre</b>
Almond, Apple, Pear, Pecan, Apricot, Cherry, Nectarine, Peach, Plum or Prune	19.5 (0.7 lb a.i./A)	59 (2.1 lbs. a.i./A/year)
Pistachio	19.5 (0.7 lb a.i./A)	39 (1.4 lbs. a.i./A/year)

**VEGETABLE TRANSPLANTS (Greenhouse and Nursery Use Only)[\*]: [\*Not approved for this use in California]**

**Not intended for field vegetable production**

<b>Vegetable Transplants</b>	<b>Diseases Controlled</b>	<b>Rate of Avalaire T-Methyl 4.5 F</b>	<b>APPLICATION INSTRUCTIONS</b>
<b>Beans, dry and succulent</b> including: Lima bean, Snap bean, Kidney bean, Mung bean, Navy bean, Pinto bean, Wax bean, Broad bean, Fava bean, Asparagus bean, Blackeyed pea, Cowpea, Sweet lupine, White lupine, White sweet lupine, Grain lupine, Chick pea, Garbanzo bean	<b>Anthracnose</b> <i>Colletotrichum</i>  <b>Gray Mold</b> <i>Botrytis</i>  <b>White Mold</b> <i>Sclerotinia</i>	29-39 fl. oz./Acre <sup>1</sup>  or  19-29 fl. oz./Acre <sup>2</sup>	For one application: Apply when 100% of plants have at least one open bloom or when conditions are favorable for disease development.  or  For multiple applications: Make the first application when 10% to 30% of plants have at least one open bloom and follow with sequential applications on a 4 to 7 day interval. Apply prior to the development of disease for best results.



	<p><b>Restrictions:</b></p> <ul style="list-style-type: none"><li>• Do not apply more than 39 fl oz (1.37 lb ai/A) of this product in a single application.</li><li>• Do not apply more than 80 fl. oz. (2.8 lbs ai/A) per year.</li><li>• <b>PHI (CALIFORNIA ONLY)</b> is 14 days for succulent beans and 28 days for dry beans and lima beans.</li><li>• <b>PHI (all other states)</b> is 14 days for succulent beans and lima beans and 28 days for dry beans.</li></ul>
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Vegetable Transplants	Diseases Controlled	Rate of Avalaire T-Methyl 4.5 F	APPLICATION INSTRUCTIONS
CUCURBITS (Cantaloupe, Casaba, Cucumbers, Melons, Pumpkins, Summer and Winter Squash, and Watermelons)	<b>Anthracnose[*]</b> <i>Colletotrichum</i> <b>Gummy Stem Blight[*]</b> <i>Didymella</i> <b>Powdery Mildew[*]</b> <i>Erysiphe,</i> <i>Sphaerotheca,</i> <i>Podosphaera</i> <b>Target Spot[*]</b> <i>Corynespora</i>	10 fl. oz. /Acre <sup>3</sup>	Begin applications when plants begin to run or when disease first appears, and repeat at 7 to 14 day intervals.  For Target Spot use at 7 day intervals.
	<b>Belly Rots[*]</b> <i>Rhizoctonia,</i> <i>Fusarium</i>	10 fl. oz./Acre <sup>3</sup>	Apply in sufficient volume to allow runoff to the soil. Will not control <i>Pythium</i> or <i>Phytophthora</i> .
	<b>Restrictions:</b> <ul style="list-style-type: none"> <li>Do not apply more than 10 fl. oz (0.35 lb ai/A) of this product in a single application.</li> <li>Do not apply more than 60 fl. oz. (2.1 lb ai/A) per year from any combination of application timings.</li> <li>Re-treatment interval: 7 days</li> <li>Follow resistance management guidelines under Directions for Use.</li> </ul>		

**[\*Not for this use in California]**

1. Apply, for example, in 50-200 gallons of water per acre. In volumes of water below 50 gallons, use a minimum of 2.1 lbs ai/A. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 2.8 lbs ai/A. For example, if 200 gallons of water are required, use 1.4 pounds active ingredient per 100 gallons.
2. Apply, for example, in 50-200 gallons of water per acre. In volumes of water below 50 gallons, use a minimum of 1.4 lbs ai/A. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 2.1 lbs ai/A. For example, if 200 gallons of water are required, use 1.05 pounds active ingredient per 100 gallons.
3. Apply, for example, in 50-200 gallons of water per acre. In volumes of water below 50 gallons, use a minimum of 0.7 lbs ai/A. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 0.7 lbs ai/A. For example, if 200 gallons of water are required, use 0.35 pounds active ingredient per 100 gallons.

### TURF APPLICATIONS

Use **Avalaire T-Methyl 4.5 F** against certain foliar and soil diseases for use on all turf types including golf course greens, tees and fairways, athletic fields, cemeteries, parks, and commercial and home lawns. Use **Avalaire T-Methyl 4.5 F** both preventatively and curatively; it is not phytotoxic on turfgrass.

Not for homeowner use. For use only by certified applicators and those under their direct supervision.

**DO NOT** apply with fixed wing or rotary aircraft.

For best results use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated sprayer. Apply after mowing or avoid mowing twelve hours after application. Apply specified amounts in sufficient water to obtain thorough coverage, (2-4 gallons per 1,000 square feet suggested). When treating golf greens, always treat aprons.

**Application Instructions:** Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation systems. Spray uniformly over the area to be treated. Apply directed amounts in sufficient water to obtain thorough coverage of treatment

area (2-4 gal per 1,000 sq. ft. is suggested). When treating golf greens, always treat aprons. Use the highest directed rate under conditions of severe disease pressure. For best results, apply after mowing or avoid mowing twelve hours after application. For root pathogens, lightly water the treatment area to move the fungicide into the active root zone with one to two tenths inch of water. Excessive irrigation may move application below active root zone and reduce application effectiveness. Green design and drainage will influence irrigation practices. When tank mixing with contact action fungicides for foliar diseases, allow applications to dry on leaf surfaces. Normal watering may proceed after sprays have dried.

**Mixing Instructions:** Add the required amount of **Avalaire T-Methyl 4.5 F** to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation to keep the material in suspension. For best results, use spray mixture the same day it is prepared.

**Turf Types:** All cool season and warm season grasses (including but not limited to Bentgrasses, Bermudagrasses, Bluegrasses, Fescues, Ryegrasses, St. Augustine grasses and Zoysia grasses) or their mixtures.

**RESTRICTIONS:**

- Do not graze animals on treated turf. Do not feed clippings to livestock or poultry.
- Do not use **Avalaire T-Methyl 4.5 F** on turf being grown for sale or other commercial uses including sod.

**Maximum Individual Application Rates and Minimum Re-Treatment Intervals**

**DO NOT** exceed the amounts per acre or reduce the re-treatment interval indicated below.

Use Site	Maximum Application rate of Avalaire T-Methyl 4.5 F	Minimum Re-Treatment Interval	Application Instructions
Residential or Public Areas	1 ¾ fl. oz. (0.06125 lb ai) / 1,000 sq. ft.	14 days	
Golf Course Tees, Greens, Aprons	5 ½ fl. oz. (0.186 lb ai)/ 1,000 sq. ft.	14 days	
Golf Course Fairways – except Florida	3 ½ fl. oz. (0.122 lb ai) / 1,000 sq. ft.	14 days	Excludes Florida
Golf Course Fairways – Florida Only	1 ¾ fl. oz. (0.06125 lb ai) / 1,000 sq. ft.	14 days	Florida Only.

**MAXIMUM YEARLY APPLICATION RATES**

**DO NOT** exceed the following amounts of product per Acre per year.

Use Site	Maximum Gallons Avalaire T-Methyl 4.5 F per Acre per Year	Fluid Ounces Avalaire T-Methyl 4.5 F per 1,000 sq. ft.	Application Instructions
Residential or Public Areas	2.42 Gallons (10.9 lbs. AI/A/Year)	7 fl. oz.(0.245 lb ai)	4 Applications per year
Golf Course Tees, Greens, Aprons	4.84 Gallons (21.8 lbs. AI/A/Year)	14 ¼ fl. oz. (0.499 lb ai)	
Golf Course Fairways – except Florida	1.21 Gallons (5.4 lbs. AI/A/Year)	3 ½ fl. oz. (0.122 lb ai)	Excludes Florida
Golf Course Fairways – Florida Only	0.60 Gallons (2.7 lbs. AI/A/Year)	1 ¾ fl. oz. (0.06125 lb ai)	Florida Only

DISEASE(S) CONTROLLED	RATE OF Avalaire T-Methyl 4.5 F FL OZ/1000 SQ FT*	APPLICATION INSTRUCTIONS
Anthracnose	2-3.5	For prevention in historic areas of disease

<i>(Colletotrichum graminicola)</i>	(0.07-0.122 lb ai) (3.5-5.3)** (0.122-0.186 lb ai)	pressure, apply twice at 14 day intervals when soil temperature reaches 60°F. For curative control, apply when disease first
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DISEASE(S) CONTROLLED	RATE OF Avalaire T-Methyl 4.5 F FL OZ/1000 SQ FT*	APPLICATION INSTRUCTIONS
		appears. Make additional applications at 14-day intervals as needed. Rotations and/or tank mix combinations with chlorothalonil or triadimefon can be utilized.
Bermudagrass Decline ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> ) Take-All-Patch ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )	3.5-5.3 (0.122-0.186 lb ai)	Apply in mid-July or when disease symptoms first appear and repeat at 14 day intervals for suppression. Use higher rates under most severe disease expression. Water treatment into active root zone. Follow proper agronomic directions to maintain plant vigor.
Coprinus Snow Mold ( <i>Coprinus psychromorbidus</i> )	3.5-5.3 (0.122-0.186 lb ai)	Apply 2 treatments at 21 day intervals in late Fall to early Winter, with the last application made just prior to first permanent snow cover. Rotations and/or tank mix combinations with PCNB can be utilized.
Dollar Spot ( <i>Moellerodiscus</i> , <i>Lanzia</i> , <i>Sclerotinia homeocarpa</i> ) Copper Spot ( <i>Gloeocercospora sorghi</i> ) Large Brown Patch and Zoysia Patch ( <i>Rhizoctonia solani</i> ) Ascochyta Leaf Blight ( <i>Ascochyta</i> ) Fusarium Patch ( <i>Fusarium nivale</i> ) Red Thread ( <i>Laetisaria fuciformis</i> )	2-3.5 (0.07-0.122 lb ai)	Apply when disease first appears. Make additional applications at 14-day intervals as needed. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb can be utilized.
Pink Snow Mold ( <i>Microdochium nivale</i> )	2-5.3 (0.07-0.186 lb ai)	Apply <b>Avalaire T-Methyl 4.5 F</b> in late Fall to early Winter before turf has stopped all growth activity. A second application may be used in combination with chlorothalonil, PCNB, or thiram at specified rates before snow cover or during Spring thaw.
Rusts ( <i>Puccinia</i> , <i>Uromyces</i> )	3.5-5.3 (0.122-0.186 lb ai)	Apply at 14-day intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or mancozeb are specified.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	3.5-5.3 (0.122-0.186 lb ai)	Apply preventative application before expected period of disease development. Continue at 14-day intervals.
Summer Patch ( <i>Magnaporthe poae</i> )	3.5-5.3 (0.122-0.186 lb ai)	For preventative treatment, make 3 applications at 21-day intervals beginning in late April or early May. Rotations and/or tank mix combinations may be used as part of the three-application program. Water product into the root zone thoroughly after application. For suppression, apply at 14-day intervals, beginning applications when the disease first appears.

Bentgrass Dead Spot ( <i>Ophiosphaerella agrostis</i> )	3.5-5.3 (0.122- 0.186 lb ai)	For prevention, apply in early June or based upon local Extension Service directions. Apply at 14 day intervals.
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DISEASE(S) CONTROLLED	RATE OF Avalaire T-Methyl 4.5 F FL OZ/1000 SQ FT*	APPLICATION INSTRUCTIONS
		Rotations and/or tank mix combinations may be used for season long disease prevention.
Fusarium Blight ( <i>Fusarium roseum</i> , <i>F. triticum</i> )	3.5-5.3 (0.122- 0.186 lb ai)	Apply when disease first appears at 14 day intervals.
Cool Season Brown Patch ( <i>Rhizoctonia cerealis</i> ) Necrotic Ring Spot and Spring Dead Spot ( <i>Leptosphaeria korrae</i> )		For prevention, apply in Fall before turf has stopped all growth activity. Apply second application in early Spring when soil temperatures reach 55-60°F or when disease first appears. For curative action, apply when disease first appears in early Spring and continue at 14 day intervals. Water treatment into active root zone.
Leaf Spot ( <i>Drechslera</i> ) Leaf, Crown, and Root Diseases ( <i>Bipolaris</i> , <i>Curvularia</i> , <i>Exserohilum</i> )	3.5-5.3 (0.122- 0.186 lb ai)	Apply when disease first appears and make applications at 14 day intervals as needed. Rotate and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb under severe conditions.
Stripe Smut ( <i>Ustilago striiformis</i> )	3.5-5.3 (0.122- 0.186 lb ai)	Apply at 14-day intervals when disease first appears. For prevention, apply in the spring and in the fall.

\*Refer to the use sites and maximum application rates table to determine allowable rates for each application.

\*\*Use the 3.5-5.3 fl. oz. rate for curative response to Basal Stem Anthracnose.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store this product in a cool, dry place in its original container only. Do not store this product near fertilizers, seeds, or other pesticides. If this product is spilled, sweep up the spillage and dispose pursuant to the below Pesticide Disposal instructions.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate 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.

### CONTAINER HANDLING:

#### Nonrefillable containers less than or equal to 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### Nonrefillable containers greater than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container, (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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.

Offer for recycling, if available, or dispose of empty containers in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## LIMITATION OF WARRANTY AND LIABILITY

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

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

[Avalaire T-Methyl<sup>TM</sup>] is a trademark of Avalaire, LLC

Topsin<sup>®</sup> is a trademark of Nippon Soda Company, Ltd.

3336<sup>®</sup> is a trademark of Nufarm Americas Inc.

**{LANGUAGE ON LABEL AFFIXED TO CONTAINER}**

THIOPHANATE-METHYL	GROUP	10	FUNGICIDE
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**Avalaire T-Methyl<sup>[TM]</sup> 4.5 F**

Contains thiophanate-methyl, the active ingredient used in [Topsin® 4.5FL Fungicide] and [3336® F].

**ACTIVE INGREDIENT:** (% by weight)

Thiophanate-Methyl (Dimethyl [(1,2- phenylene)bis (iminocarbonothioyl)]bis[Carbamate])\*.....46.2%

**OTHER INGREDIENTS**..... 53.8%

**TOTAL:** ..... 100.0%

\*Also known as Dimethyl 4,4'-o-phenylenebis-[3-thioallophanate] Contains 4.5 Lbs. Thiophanate Methyl per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice</li> <li>• Have person sip a glass of water if able to swallow</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.	

**For Chemical Emergency:**

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

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Harmful if swallowed. Avoid breathing vapor or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL HAZARDS:** Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

**STORAGE AND DISPOSAL**

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Offer for recycling, if available, or dispose of empty containers in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

See inside label booklet for additional Precautionary Statements and Directions for Use.

[Avalaire T-Methyl<sup>[TM]</sup> 4.5 F] is not manufactured or distributed by United Phosphorus, Inc., seller of [Topsin® 4.5FL Fungicide]. [Avalaire T-Methyl<sup>[TM]</sup> 4.5 F] is not manufactured or distributed by NuFarm Americas Inc, seller of [3336® F].

Manufactured for:  
**Avalaire, LLC**  
1204 Village Market Place, #173  
Morrisville, NC 27560

**EPA Reg. No.: 93930-XX**  
**EPA Est. No.:** \_\_\_\_\_  
**NET WEIGHT:** \_\_\_\_\_