FUNGICIDE

Talaris™ 4.5 F contains thiophanate-methyl, the active ingredient used in Topsin® 4.5FL Fungicide and 3336® F.

ACTIVE INGREDIENT:

EPA Reg. No.: 87373-10-91234

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 below for additional Precautionary Statements.

		FIRST AID				
If Inhaled	•	Move person to fresh air.				
	 If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth, if possible. 					
	•	Call a poison control center or doctor for further treatment advice.				
If on Skin or	•	Take off contaminated clothing.				
Clothing		Rinse skin immediately with plenty of water for 15-20 minutes.				
	•	Call a poison control center or doctor for treatment advice.				
If In Eyes		Hold eye open and rinse slowly and gently with water for 15-20 minutes.				
		Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.				
	•	Call a poison control center or doctor for treatment advice.				
If Swallowed		Call a poison control center or doctor immediately for treatment advice.				
		Have person sip a glass of water if able to swallow.				
		DO NOT induce vomiting unless told to do so by the poison control center or doctor.				
	•	DO NOT give anything by mouth to an unconscious person.				
		HOT LINE NUMBER				
		container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact				
1-844-685-91	/2	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)

Talaris™ 4.5 F is not manufactured or distributed by United Phosphorus, Inc., seller of Topsin® 4.5FL Fungicide. **Talaris™ 4.5 F** is not manufactured or distributed by Cleary Chemicals, LLC, seller of 3336® F.



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 ≥ 14 mils, or Viton Gloves ≥ 14 mils.

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

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical resistant apron

All other mixers, loaders and applicators must wear:

- Long-sleeved shirt and long pants
- · Shoes plus socks
- · Chemical-resistant gloves for all mixers and loaders and for application using hand held equipment
- 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:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing, As soon as possible, wash thoroughly and change
 into clean clothing.

ENVIRONMENTAL HAZARDS

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, including plants, soil or water, is:

- Coveralls over long sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- 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 **Talaris 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.

Talaris 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 registered crops. Atticus 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.

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: **Talaris 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.

Plantback Restriction: DO NOT plant any crop not labeled for Talaris 4.5 F use within 30 days of the last application.

Chemigation: See specific directions in this label.

Mode of Action: Talaris 4.5 F is a tubulin inhibitor fungicide falling into the FRAC Group 1 for Benzimidazoles. Its Mode of Action is the inhibition of microtubule assembly. It has protectant, systemic and curative actions, each of these specific to certain crops, fungi and climatic conditions.

RESISTANCE-MANAGEMENT

For resistance management, **Talaris 4.5 F** contains a Group 1 fungicide. Any fungal/bacterial population may contain individuals naturally resistant to **Talaris 4.5 F** and other Group 1 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.

- Rotate the use of Talaris 4.5 F or other Group 1 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.

To delay fungicide/bactericide resistance, take the following steps:

- 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 Atticus, LLC. You can also contact your pesticide distributor or university extension specialist to report resistance.

It is advised that **Talaris 4.5 F** be rotated or tank mixed with different modes of action fungicide chemistry. All products containing thiabendazole or thiophanate ethyl fungicides (benzimidazole fungicides) are NOT considered rotation or tank mix partners. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance.

Should **Talaris 4.5 F** be applied as directed and the treatment is considered not to be effective, you may have encountered a resistant or tolerant fungi strain. **DO NOT** apply this mode of action chemistry again during this growing season, as this may enhance the resistance at this site.



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 aerially 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.

Handheld Technology Applications:

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 **Talaris 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 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.

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.



Tank Mixing Instructions

Talaris 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 including fertilizers. No claim of compatibility with other products is implied. DO NOT tank mix with copper-containing materials or highly alkaline pesticides, including 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. Talaris 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

Note: 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 **Talaris 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 should the need arise.

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.

DO NOT apply when wind speed favors drift beyond the area intended for treatment.



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.

DO NOT apply when wind speed favors drift beyond the area intended for treatment.

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 interfer 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 **Talaris 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.

Note: 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 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 must 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 **Talaris 4.5 F** into the irrigation water line. Continually monitor calibration to ensure proper application rate per acre. To ensure proper mixing of the suspention of **Talaris 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 sheer).

After overhead chemigation treatment with **Talaris 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

		0.0p 0p	pecific Directio			
CROP	DISEASES	PRODUCT per ACRE	Al per ACRE	APPLICATION INSTRUCTIONS		
Beans, dry & succulent Including: Asparagus bean Blackeyed pea Broad bean Chickpea Cowpea	Anthracnose (Colletotrichum spp.) Gray Mold (Botrytis spp.) White Mold (Sclerotinia spp.)	30-40 fl. oz.	1.05 - 1.4 lbs. Al	For one application: Apply when 100% of plants have at least one open bloom or when conditions are favorable for disease development.		
Fava bean Garbanzo bean Grain lupine Kidney bean		20-30 fl. oz.	0.7 – 1.05 lbs. Al	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.		
Lima bean Mung bean Navy bean Pinto bean Snap bean Sweet lupine Wax bean White lupine White Sweet Lupine	Restrictions For Use on Beans, dry & succulent: DO NOT apply more than 40 fl. oz. (1.4 lbs. Al) per acre per application. DO NOT apply more than 80 fl. oz. (2.8 lbs. Al) per acre per year. DO NOT apply more than 1 application at the highest rate (40 fl. oz) or 4 applications at the lowest rate (20 fl. oz.) per year. The minimum re-treatment interval is 4 days. The REI is 1 day for all succulent beans and 3 days for dry beans. The PHI (California) is 14 days for succulent beans and 28 days for lima beans & dry beans. The PHI (all other states) is 14 days for succulent and lima beans and 28 days for dry beans.					
Cucurbits Including: Cantaloupes, Casaba, Cucumbers, Melons, Pumpkins, Summer Squash and Winter Squash, and Watermelons	Restrictions For Use on * Not for this use in Califor DO NOT apply more than	n Cucurbits: ornia 1 10 fl. oz. (0.35 lb.) 1 60 fl. oz. (2.1 lbs.) 1 6 applications per t interval is 14 days occurbits.	AI) per acre per appl AI) per acre per year year.			

continued



Crop Specific Directions (Cont.)

			(00111)			
DISEASES	PRODUCT per ACRE	Al per ACRE	APPLICATION INSTRUCTIONS			
Penicillium Clove Rot	Make a	0.7 lb. Al per	Continuously agitate solution tank mixture to ensure proper treatment suspension ratio.			
		100 gai. water	·			
	gallons of water		Treatment: 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.			
			water per application.			
	•					
1 11 2		•				
	•					
	any type of irrigation	system.				
		1	I -			
	!		Spray product solution directly into the open planting furrow at			
(Scierotinia spp.)	1 .		the time of planting seed, sets or bulbs.			
		1.4 lbs. Al per acre				
1 1 2	•	,, po. ao. o po. joa				
Early Leaf Spot	10 fl. oz.	0.35 lb. Al	Start treatments when disease is verified or 35 days after			
(Cercospora spp.)			planting. Repeat as needed at 14 day intervals.			
Late Leaf Spot			Use this product in conjunction with another non-benzimidazole			
(Cercospora spp.)			fungicide.			
1112						
1 1 1 1 1	•					
113		•				
The REI is 1 day.						
The Reis Law.						
The PHI is 14 days.						
	Restrictions For Use of DO NOT apply more that DO NOT apply through a The PHI is 0 days. White Rot * (Sclerotinia spp.) Restrictions For Use of DO NOT apply through a DO NOT apply more that The REI is 3 days for gar The PHI is 0 days. Early Leaf Spot (Cercospora spp.) Late Leaf Spot (Cercospora spp.) Rust (Puccinia spp.) Rust (Puccinia spp.) Restrictions For Use of DO NOT apply more that The minimum re-treatmer	PRODUCT per ACRE Penicillium Clove Rot Make a Suspension of 20 fl. oz. per 100 gallons of water Restrictions For Use on Garlic: DO NOT apply more than 20 fl. oz. (0.7 lb. A DO NOT apply more than 2 applications per The minimum re-treatment interval is 14 days DO NOT apply through any type of irrigation The PHI is 0 days. White Rot * (Sclerotinia spp.) White Rot * (Sclerotinia spp.) Restrictions For Use on Onions, Garlic in DO NOT apply through any type of irrigation DO NOT apply more than 1 application per you not per than 1 application per you not per you	Penicillium Clove Rot Penicillium Clove Rot Make a Suspension of 20 fl. oz. per 100 gall. water Restrictions For Use on Garlic: DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per 100 gallons of DO NOT apply more than 2 applications per year. The minimum re-treatment interval is 14 days. DO NOT apply through any type of irrigation system. The PHI is 0 days. White Rot * (Sclerotinia spp.) Restrictions For Use on Onions, Garlic (in furrow): DO NOT apply through any type of irrigation system. Restrictions For Use on Onions, Garlic (in furrow): DO NOT apply more than 1 application per year. DO NOT apply more than 1 application per year. DO NOT apply more than 40 fl. oz. (1.4 lbs. Al) per acre per year. The REI is 3 days for garlic in furrow. The PHI is 0 days. Early Leaf Spot (Cercospora spp.) Late Leaf Spot (

continued



Crop Specific Directions (Cont.)

		PRODUCT per	ific Directions	
CROP	DISEASES	ACRE	Al per ACRE	APPLICATION INSTRUCTIONS
Potatoes	White Mold (Sclerotinia sclerotiorum sp.)	20-30 fl. oz.	0.7-1.05 lbs. Al	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.
				Early/Late Blight Control : You may tank-mix this product with other blight-control fungicides.
				Atticus does not advise aerial application for control of this disease on this crop.
	DO NOT apply more than DO NOT apply more than DO NOT apply more than The minimum re-treatmen The REI is 2 days. The PHI is 21 days.	n 80 fl. oz. (2.8 lbs. and 2 applications at the	AI) per acre per year	
Soybeans	Anthracnose (Colletotrichum spp.) Brown Spot (Septoria spp.) Frogeye Leaf Spot (Cercospora spp.) Pod and Stem Blight (Diaporthe spp. and the imperfect stage, Phomopsis spp.) Purple Seed Stain (Cercospora spp.)	10-20 fl. oz. Use higher rate as higher density canopy develops	0.35-0.7 lb. Al	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. FOR SEED BEANS ONLY- A single high-rate application may be made at the time of bean formation to improve seed quality.
	White Mold (Sclerotinia spp.)	15-20 fl. oz.	0.525-0.7 lb. Al	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. Aerial Application: Use at least 5 gallons water.
	Aerial Blight (Suppression) Soybean Rust (Phakopsora pachyrhiza)	20 fl. oz.	0.7 lb. Al	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. DO NOT make more than 2 applications per year.
	Restrictions for use in DO NOT apply more than DO NOT apply more than DO NOT apply more than DO NOT graze or feed that Applications later than 14 The minimum re-treatment The REI is 1 day. The PHI is 21 days.	n 20 fl. oz. (0.7 lb. A n 40 fl. oz. (1.4 lbs. n n 2 applications per eated vines or hay to days after pods av	Al) per acre per year year. o livestock. erage ¼ inch in leng	cation. r.

continued



Crop Specific Directions (Cont.)

СКОР	DISEASES	PRODUCT per ACRE	Al per ACRE	APPLICATION INSTRUCTIONS		
Strawberries	Fruit Rot (Botrytis spp.) Leaf Blight (Dendrophoma spp.) Leaf Scorch (Diplocarpon spp.) Powdery Mildew (Sphaerotheca spp.)	15-20 fl. oz. Use highest rate under severe conditions	0.525-0.7 lb. Al	Start treatments as blooming begins, repeat at 7 to 10 day intervals. Use higher rates when severe disease pressure appears.		
	Suppression only: Crown Rot* (Colletotrichum spp.)	15-20 fl. oz.	0.525-0.7 lb. Al	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.		
	DO NOT apply more than DO NOT apply more than DO NOT apply more than The minimum re-treatmen The REI is 1 day. The PHI is 1 day.					
Sugarbeets	See Fungicide Resistar Cercospora Leaf Spot (Cercospora spp.)	10-20 fl. oz. (in CA use 10 fl. oz. rate)	0.35-0.7 lb. Al (in CA use 0.35 lb. Al only)	Make first application prior 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. If tolerant or resistant strains are known to be in the area, a tank mix with a protectant type fungicide is advised.		
	Powdery Mildew (Erysiphe spp.)	10-20 fl. oz. (in CA use	0.35-0.7 lb. Al (in CA use	For areas east of the Rocky Mountains: DO NOT apply this product more than once per year for Cercospora spp. Start treatments immediately, as disease is verified, follow with a NON-Benzimidazole fungicide as needed or within 14 days		
	Restrictions for use in Sugarbeets: DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per acre per application, except for CA. In CA, DO NOT apply more than 10 fl. oz. (0.35 lb. Al) per acre per application. DO NOT apply more than 60 fl. oz. of this product (2.1 lbs. Al) per acre per year. DO NOT apply more than 3 applications at the highest rate (20 fl. oz.) or 6 applications at the lowest rate (10 fl. oz.) per year. In CA, DO NOT apply more than 6 applications per year. The minimum re-treatment interval is 14 days. The REI is 1 day. The PHI is 21 days. See Fungicide Resistance above.					

Triticale and Fall Seeded Wheat Applications

CROPS	DISEASES	PRODUCT per ACRE	OZ./100 GAL	APPLICATION INSTRUCTIONS				
Triticale and Fall	Eye Spot	20 fl. oz.	0.7 lb. Al	Make applications after tillering but before stem				
Seeded Wheat	Foot Rot			elongation begins. Apply by ground or aerial means.				
	Strawbreaker							
	(Pseudocercosporella spp.)							
(Idaho, Oregon and	Restrictions for use on Triticale an	Restrictions for use on Triticale and Fall Seeded Wheat:						
Washington Only) DO NOT apply more than 20 fl. oz. of this product (0.7 lb. Al) per acre per year.								
	DO NOT apply more than 1 application per year.							
The REI is 24 hours.								
	The PHI is 90 days.							
	DO NOT cut hay within 90 days of app	olication or allow liv	vestock to graze in	treated area prior to harvest.				



Tree Crop Applications

DISEASES	PRODUCT per ACRE	Al per ACRE	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS			
Brown Rot Blossom Blight (Monilinia spp.)	20-30 fl. oz.	0.7 -1.05 lbs. Al		Initiate applications at pink bud and continue through petal fall.			
(Monilinia, Sclerotinia, Botrytis) Leaf Blight				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			
Scab				resistance management.			
Restrictions for use on Almo DO NOT apply more than 30 fl. DO NOT apply more than 60 fl. DO NOT apply more than 2 app. The minimum re-treatment interv. The REI is 3 days. The PHI is 1 day.	oz. (1.05 lbs. Al) per oz. (2.1 lbs. Al) per a slications at the higher al is 10 days.	cre per year.		e lowest rate (20 fl. oz.) per year.			
Apple Scab (Venturia spp.) Black Pox *	15-20 fl. oz. (except CA)	0.525 -0.7 lb. Al	3.75 - 5 fl. oz.	Initiate applications at green tip and continue at 5 to 10 day intervals continuing through petal fall.			
(Helminthosporium papulosum) Black Rot (Botryosphaeria spp.)	(in CA use 30 fl. oz. only)	(in CA use 1.05 lb.only)	(in CA use 7.5 fl. oz. only)	Continue cover sprays at 7 to 14 day intervals as needed.			
Brooks Fruit Spot (Mycosphaerella spp.) Flyspeck (Zygophiala spp.) Powdery Mildew (Podesphaere spp.)			1	CN			
Sooty Blotch (Gloeodes spp.) White Rot * (Botryosphaeria spp.)							
Preharvest use to control Post-Harvest Diseases on Apples							
Storage Rot Blue Mold (Pencilium expansum) Gray Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.)	1.0 fl. oz.	0.035 lb. Al	3.75-5 fl. oz.	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 Schlor® (Fludioxonil) will provide additional protection from post-harvest diseases.			
Restrictions for use on Apples: * Not for this use in California DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per acre per application, except CA. In CA, DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per acre per application. DO NOT apply more than 80 fl. oz. of this product (2.8 lbs. Al) per acre per year total including both applications beginning at petal pall and pre-harvest applications to control post-harvest diseases.							
DO NOT apply more than 4 applications at the highest rate (20 fl. oz.) or 5 applications at the lowest rate (15 fl. oz.) per year. In CA, DO NOT apply more than 2 applications per year. DO NOT use benzimidazole fungicide as Mertect post-harvest following a pre-harvest application of this product. The minimum re-treatment interval for green tip through petal fall is 5 days. The minimum re-treatment interval is 7 days. The REI is 2 days.							
	Brown Rot Blossom Blight (Monilinia spp.) Jacket Rot (Monilinia, Sclerotinia, Botrytis) Leaf Blight (Seimatosporium) Scab (Cladosporium spp.) Restrictions for use on Almo DO NOT apply more than 30 fl. DO NOT apply more than 2 app The minimum re-treatment interv The REI is 3 days. The PHI is 1 day. See Fungicide Resistance ab Apple Scab (Venturia spp.) Black Pox * (Helminthosporium papulosum) Black Rot (Botryosphaeria spp.) Brooks Fruit Spot (Mycosphaerella spp.) Flyspeck (Zygophiala spp.) Powdery Mildew (Podosphaera spp.) Sooty Blotch (Gloeodes spp.) White Rot * (Botryosphaeria spp.) Preharvest use to control Po Storage Rot Blue Mold (Pencilium expansum) Gray Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.) Restrictions for use on Apple * Not for this use in California DO NOT apply more than 20 fl. In CA, DO NOT apply more than 20 fl. In CA, DO NOT apply more than 90 fl. pre-harvest applications to control Po NOT apply more than 4 apple nore than 100 NOT apply more than 100 NOT use benzimidazole fun 100 NOT use benzimidaz	Brown Rot Blossom Blight (Monilinia spp.) Jacket Rot (Monilinia, Sclerotinia, Botrytis) Leaf Blight (Seimatosporium) Scab (Cladosporium spp.) Restrictions for use on Almonds: DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per a DO NOT apply more than 2 applications at the higher the minimum re-treatment interval is 10 days. The REI is 3 days. The PHI is 1 day. See Fungicide Resistance above. Apple Scab (Venturia spp.) Black Pox * (Helminthosporium papulosum) Black Rot (Botryosphaeria spp.) Brooks Fruit Spot (Mycosphaerella spp.) Flyspeck (Zygophiala spp.) Powdery Mildew (Podosphaera spp.) Sooty Blotch (Gloeodes spp.) White Rot * (Botryosphaeria spp.) Preharvest use to control Post-Harvest Disease Storage Rot Blue Mold (Pencilium expansum) Gray Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.) Restrictions for use on Apples: * Not for this use in California DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per accomposition in the product (2 pre-harvest applications to control post-harvest disease on NoT apply more than 30 fl. oz. (1.05 lbs. DO NOT apply more than 30 fl. oz. of this product (2 pre-harvest applications to control post-harvest disease on NoT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 3 of in cz. (1.05 lbs. DO NOT apply more than 1 applications at the higher in CA, DO NOT apply more than 2 applications at the higher in CA, DO NOT apply more than 3 of in cz. (1.05 lbs. DO NOT apply more than 3 of in cz. (1.05 lbs. DO NOT apply more than 3 o	Brown Rot Blossom Blight (Monilinia spp.) Jacket Rot (Monilinia, Sclerotinia, Botrytis) Leaf Blight (Seimatosporium) Scab (Cladosporium spp.) Restrictions for use on Almonds: DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per acre per application. DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year. DO NOT apply more than 2 applications at the highest rate (30 fl. oz.) or 3 The minimum re-treatment interval is 10 days. The PHI is 1 day. See Fungicide Resistance above. Apple Scab (Venturia spp.) Black Pox * (Helminthosporium papulosum) Black Rot (Botryosphaeria spp.) Brooks Fruit Spot (Mycosphaerella spp.) Flyspeck (Zygophiala spp.) Powdery Mildew (Podosphaera spp.) Sooty Blotch (Gloeodes spp.) White Rot * (Botryosphaeria spp.) Preharvest use to control Post-Harvest Diseases on Apples Storage Rot Blue Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.) Restrictions for use on Apples: *Not for this use in California DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per acre per application, ex the pre-harvest applications to control post-harvest diseases. DO NOT apply more than 4 applications at the highest rate (20 fl. oz.) or storage Rot In CA, DO NOT poply more than 4 applications at the highest rate (20 fl. oz.) or storage Rot In CA, DO NOT poply more than 4 applications at the highest rate (20 fl. oz.) or storage Rot In CA, DO NOT poply more than 4 applications at the highest rate (20 fl. oz.) or storage Rot DO NOT apply more than 4 applications per year. DO NOT use benzimidazole fungicide as Mertect post-harvest following a The minimum re-treatment interval for green tip through petal fall is 5 days. The REI is 2 days.	Brown Rot Blossom Blight (Monilinia spp.) Jacket Rot (Monilinia, Sclerotinia, Botrytis) Leaf Blight (Seimatosporium) Scab (Cladosporium spp.) Restrictions for use on Almonds: DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per acre per application. DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year. DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year. DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year. DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year. DO NOT apply more than 2 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 3 applications at the highest rate (30 fl. oz.) or 5 fl. oz. or lly) Black Pox * (Helminthosporium (in CA use (in CA use 1.05 lb. only)) Black Rot (Botryosphaeria spp.) Brooks Fruit Spot (Mycosphaera spp.) Sooty Blotch (Gioeodes spp.) White Rot * (Botryosphaeria spp.) Preharvest use to control Post-Harvest Diseases on Apples Storage Rot Blue Mold (Pencilium expansum) Gray Mold (Botryis cinerea) Bulls-Eye Rot (Neofabraea spp.) Restrictions for use on Apples: *Not for this use in California DO NOT apply more than 30 fl. oz. (0.7 lb. Al) per acre per application, except CA. In CA, DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per acre per year total includi pre-harvest applications to control post-harvest diseases. DO NOT apply more than 4 applications at the highest rate (20 fl. oz.) or 5 applications at the In CA, DO NOT apply more than 4 applications at the highest rate (20 fl. oz.) or 5 applications at the Inchipation at the Inchipation at the Inchipation at the Inchipati			

Continued



Tree Crop Applications (Cont.)

CROPS	DISEASES	PRODUCT per ACRE	Al per ACRE	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS				
Apricots	Brown Rot	20-30 fl. oz.	0.7-1.05 lbs. Al	6.7 - 10 fl. oz.	Make first application at early bloom (red bud),				
	(Monilinia spp.)	(in CA use	(in CA use		followed by a second application at full bloom				
	Blossom Blight (Monilinia spp.)	30 fl. oz. only)	1.05 lbs. Al only)		Under severe disease pressure, make				
	Fruit Brown Rot				additional applications at 10 to 14 day interval				
	(Monilinia spp.)				beginning at full bloom, through final pre- harvest sprays.				
	Restrictions for use on Apricots: DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per acre per application. DO NOT apply more than 80 fl. oz. (2.8 lbs. Al) per acre per year. DO NOT apply more than 2 applications at the highest rate (30 fl. oz) or 4 applications at the lowest rate (20 fl. oz.) per year. In CA, DO NOT apply more than 2 applications per year. The minimum re-treatment interval is 10 days. The REI is 2 days. The PHI is 1 day.								
	See Fungicide Resistance a	1							
Cherries	Brown Rot	20-30 fl. oz.	0.7-1.05 lbs. Al	6.7-10 fl. oz.	Make first application at early bloom (popcorn				
Sweet and	(Monilinia spp.)	(in CA use	(in CA use		stage), followed by a second application at full				
Sour	Blossom Blight	30 fl. oz. only)	1.05 lbs. Al only)		bloom.				
	(Monilinia spp.) Fruit Brown Rot				Under severe disease pressure, make				
	(Monilinia spp.)				additional applications at 10 to 14 day intervals				
	(монина эрр.)				beginning at full bloom, through final pre- harvest sprays.				
	Cherry Leaf Spot	22.5-30 fl. oz.	0.8-1.05 lbs. Al	7.5-10 fl. oz.	Initiate applications as leaves begin to unfold,				
	(Coccomyces spp.)				near petal fall or before.				
					Continue at first, second and third cover				
					sprays at 10 to 14 day intervals.				
	Powdery Mildew	20-30 fl. oz.	0.7-1.05 lbs. Al	6.7-10 fl. oz.	Make first application at early bloom (popcorn				
	(Podosphaera spp.)	(in CA use	(in CA use		stage), followed by a second application at ful				
	and	30 fl. oz. only)	1.05 lbs. Al only)		bloom.				
	(Sphaerotheca spp.)	PLUS	PLUS	PLUS	PLUS				
		22.5-30 fl. oz.	0.79 -1.05 lbs. Al	7.5-10 fl. oz.	Also make applications of this product at				
	Restrictions for use on Che DO NOT apply more than 30 fl	rries Sweet and So	ur:		shuck fall and first cover.				
	DO NOT apply more than 30 fl DO NOT apply more than 80 fl	rries Sweet and Soc. oz. (1.05 lbs. Al) per oz. of this product (2 plications at the higher of the control of t	ur: acre per application. 8 lbs. Al) per acre pest application rate (3	er year.	shuck fall and first cover.				
	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per yln CA, DO NOT apply more that The minimum re-treatment interthe REI is 2 days.	rries Sweet and Soc. oz. (1.05 lbs. Al) per oz. of this product (2 plications at the higher of the product of t	ur: acre per application. B lbs. Al) per acre pest application rate (3	er year. 0 fl. oz.), 3 applicat	ions at 22.5 fl. oz. or 4 applications at the lowes				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per In CA, DO NOT apply more that The minimum re-treatment interthe REI is 2 days. The PHI is 1 day.	rries Sweet and Soc. oz. (1.05 lbs. Al) per oz. of this product (2 plications at the higher of the product of t	ur: acre per application. 8 lbs. Al) per acre pest application rate (3	er year.	,				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.)	rries Sweet and Soc. oz. (1.05 lbs. Al) per oz. of this product (2 plications at the higher of the product of t	ur: acre per application. B lbs. Al) per acre pest application rate (3	er year. 0 fl. oz.), 3 applicat	ions at 22.5 fl. oz. or 4 applications at the lowes Make first application at early bloom (pink bud), followed by a second application at full				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight	rries Sweet and Soc oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per year is 10 days.	ur: acre per application8 lbs. Al) per acre pest application rate (3	er year. 0 fl. oz.), 3 applicat	ions at 22.5 fl. oz. or 4 applications at the lowes Make first application at early bloom (pink				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.)	rries Sweet and Soc oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per yeal is 10 days.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 rear. 0.7-1.05 lbs. Al (in CA use	er year. 0 fl. oz.), 3 applicat	Make first application at early bloom (pink bud), followed by a second application at full bloom. Under severe disease pressure, make				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot	rries Sweet and Soc oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per yeal is 10 days.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 rear. 0.7-1.05 lbs. Al (in CA use	er year. 0 fl. oz.), 3 applicat	Make first application at early bloom (pink bud), followed by a second application at full bloom. Under severe disease pressure, make				
Vectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.)	rries Sweet and Soc oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per yeal is 10 days.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 rear. 0.7-1.05 lbs. Al (in CA use	er year. 0 fl. oz.), 3 applicat	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 interval beginning at full bloom, through final pre-				
lectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot	rries Sweet and Soc oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per yeal is 10 days.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 rear. 0.7-1.05 lbs. Al (in CA use	er year. 0 fl. oz.), 3 applicat	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 interval				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more that The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot (Monilinia spp.) Fruit Brown Rot (Monilinia spp.) Restrictions for use on Nec DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap In CA, DO NOT apply more than	tarines: . oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per year is 10 days. bove 20-30 fl. oz. (in CA use 30 fl. oz. only) tarines: . oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher an 2 applications per year.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 year. 0.7-1.05 lbs. Al (in CA use 1.05 lbs. Al only) acre per application. 8 lbs. Al) per acre pest rate (30 fl. oz.) or acre per application.	er year. 0 fl. oz.), 3 applicat 6.7-10 fl. oz.	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 interval beginning at full bloom, through final pre-				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more tha The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot (Monilinia spp.) Fruit Brown Rot (Monilinia spp.) Restrictions for use on Nec DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap In CA, DO NOT apply more that The minimum re-treatment inter The REI is 2 days.	tarines: . oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per year is 10 days. bove 20-30 fl. oz. (in CA use 30 fl. oz. only) tarines: . oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher an 2 applications per year.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 year. 0.7-1.05 lbs. Al (in CA use 1.05 lbs. Al only) acre per application. 8 lbs. Al) per acre pest rate (30 fl. oz.) or acre per application.	er year. 0 fl. oz.), 3 applicat 6.7-10 fl. oz.	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 interval beginning at full bloom, through final preharvest sprays.				
Nectarines	DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap application rate (20 fl. oz.) per y In CA, DO NOT apply more that The minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance a Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot (Monilinia spp.) Fruit Brown Rot (Monilinia spp.) Restrictions for use on Nec DO NOT apply more than 30 fl DO NOT apply more than 80 fl DO NOT apply more than 2 ap In CA, DO NOT apply more that The minimum re-treatment inter	tarines: . oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher year. an 2 applications per yeal is 10 days. bove 20-30 fl. oz. (in CA use 30 fl. oz. only) tarines: . oz. (1.05 lbs. Al) per . oz. of this product (2 plications at the higher an 2 applications per yeal is 10 days.	ur: acre per application. 8 lbs. Al) per acre pest application rate (3 year. 0.7-1.05 lbs. Al (in CA use 1.05 lbs. Al only) acre per application. 8 lbs. Al) per acre pest rate (30 fl. oz.) or acre per application.	er year. 0 fl. oz.), 3 applicat 6.7-10 fl. oz.	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 interval beginning at full bloom, through final preharvest sprays.				





Tree Crop Applications (Cont.)

TREE CROPS	DISEASES	PRODUCT per ACRE	Al per ACRE	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS		
Peaches	Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot (Monilinia spp.)	20-30 fl. oz. (in CA use 30 fl. oz. only)	0.7-1.05 lbs. Al	6.7-10 fl. oz.	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 preharvest sprays.		
	Peach Scab (Cladosporium spp.)	20-30 fl. oz. (in CA use 30 fl. oz. only PLUS 22.5-30 fl. oz.)	0.7-1.05 lbs. Al	6.7-10 fl. oz. PLUS 7.5-10 fl. oz.	Make first application at early bloom (pink bud), followed by a second application at full bloom. PLUS Apply at shuck split and at first cover sprays.		
	Restrictions for use on Pear DO NOT apply more than 30 fl DO NOT apply more than 2 ap In CA, DO NOT apply more than 12 ap In CA, DO NOT apply more than 15 minimum re-treatment inter The REI is 2 days. The PHI is 1 day. See Fungicide Resistance all	oz. (1.05 lbs. Al) per a cz. (2.8 lbs. Al) per a plications at the highe an 2 applications per y val is 10 days.	cre per year. st rate (30 fl. oz.) or		e lowest rate (20 fl. oz.) per year.		
Pecans	Brown Spot (Cercospora spp.) Downy Spot (Mycosphaerella spp.) Liver Spot (Gnomonia spp.) Powdery Mildew (Microsphaerella spp.) Scab (Fusicladium spp.) Stem End Blight (Botryosphaeria spp.) Zonate Leaf Spot (Cristulariella spp.)	20 fl. oz.	0.7 lb. AI		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.		
	Restrictions for use on Pecans: DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per acre per application. DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year. DO NOT apply more than 3 applications per year. The minimum re-treatment interval is 21 days. The REI is 3 days. The PHI is 1 day. DO NOT apply after shuck split. See Fungicide Resistance above.						
Pistachios	Shoot Blight (Botrytis spp. and Botryosphaeria spp.)	30-40 fl. oz.	1.05 – 1.4 lbs. Al		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.		
	Restrictions for use on Pist DO NOT apply more than 40 fl DO NOT apply more than 40 fl DO NOT apply more than 1 ap The REI is 3 days. See Fungicide Resistance al	oz. (1.4 lbs. Al) per a oz. of this product (1 plication per year.		er year.	Continued		



Tree Crop Applications (Cont.)

TREE CROPS	DISEASES	PRODUCT per ACRE	Al per ACRE	PRODUCT per 100 GAL	APPLICATION INSTRUCTIONS		
Plums / Prunes	Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot (Monilinia spp.)	20-30 fl. oz. (in CA use 30 fl. oz. only)	0.7-1.05 lbs. Al	6.7-10 fl. oz.	Initiate application at early bloom (green tip), 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 preharvest sprays.		
	Black Knot (Dibotryon spp.)	20-30 fl. oz. (in CA, use 30 fl. oz. only)	0.7-1.05 lbs. Al	6.7-10 fl. oz.	Initiate applications before bloom, then at petal fall and first 3 cover sprays at 10 to 14 day intervals.		
	Leaf Spot (Coccomyces spp.)	20-30 fl. oz. (in CA use 30 fl. oz. only)	0.7-1.05 lbs. Al	6.7-10 fl. oz.	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.		
	Restrictions for use on Plums/Prunes: DO NOT apply more than 30 fl. oz. (1.05 lbs. Al) per acre per year. DO NOT apply more than 80 fl. oz. of this product (2.8 lbs. Al) per acre per year. DO NOT apply more than 2 applications at the highest rate (30 fl. oz.) or 4 applications at the lowest rate (20 fl. oz.) per year. In CA, DO NOT apply more than 2 applications per year. DO NOT apply after shuck split. The minimum re-treatment interval is 10 days. The REI is 2 days. The PHI is 1 day. See Fungicide Resistance above.						

Conifer Applications

TREE CROPS CONIFER spp.	DISEASES	MINIMUM PRODUCT/ ACRE & GALLONAGE per APPLICATION	APPLICATION INSTRUCTIONS			
(Pines)* Austrian Pine Christmas Trees Red Pine Scots Pine	Tip Blight (Diplodia spp.)	20 fl. oz. (0.7 lb. Al) product/acre applied in at least 100 gal/acre	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.			
(Fir)* Douglas	Restrictions for use on Pir *Not for use in California. DO NOT apply more than 20 DO NOT apply more than 60 DO NOT apply more than 3 a DO NOT allow livestock to gr The minimum re-treatment inte THE REI IS 12 HOURS FO Rhabdocline Needle Cast Swiss Needle Cast (Phaecryptopus spp.)	fl. oz. (0.7 lb. Al) per acre per fl. oz. (2.1 lbs. Al) per acre per applications per year. aze treated area. erval is 4 days.	application.			
	Restrictions for use on Firs: *Not for use in California. DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per acre pre application. DO NOT apply more than 100 fl. oz. of this product (3.5 lbs. Al) per acre per year. DO NOT apply more than 5 applications per year. DO NOT graze treated area. The minimum re-treatment interval is 4 weeks. THE REI IS 12 HOURS FOR CONIFERS.					



Seedling Treatment Applications

SEEDLING TREATMENT	DISEASES	MIX RATIO	APPLICATION INSTRUCTIONS
Longleaf Pine	Brown Needle Blight	1.25 fl. oz. (0.04375 lb. Al)	Prior to application, immerse the roots of the seedlings in
	(Scirrhia spp.)	product to 9.5 ounces dry	clean water. The roots may then be treated with a mixture
		Kaolinite clay for seedling roots	of Kaolinite and this product.
Loblolly Pine	Fusarium spp. and	2.5 fl. oz. (0.0875 lb. Al)	
Longleaf Pine	Rhizoctonia Root Rot	product to 50 ounces	Note: This product is not effective in controlling
Slash Pine		Kaolinite clay, add enough	Phytophthora spp. or Pythium spp.
		water to make a slurry	

Restrictions for use on Longleaf Pine, Loblolly Pine, and Slash Pine:

DO NOT apply more than 1.25 fl. oz. (0.04375 lb. Al) per 9.5 ounces of dry Kaolinite clay for application to Longleaf Pine seedlings.

DO NOT apply more than 2.5 fl. oz. (0.0875 lb. Al) per 50 ounces Kaolinite clay for application to Loblolly Pine, Longleaf Pine and Slash Pine seedlings.

DO NOT make more than one application per year.

DO NOT apply this product to seedling foliage.

DO NOT ALLOW EXCESSIVE DRYING OF ROOTS or exposure to freezing temperatures or temperatures greater than 90°F.

HORTICULTURAL APPLICATIONS

GREENHOUSE, NURSERY, LANDSCAPE, AND INTERIORSCAPE

ANNUAL AND PERENNIAL FLOWERS, BEDDING PLANTS, FOLIAGE PLANTS, GROUND COVERS, PLUS DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Talaris 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. **Talaris 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. **Talaris 4.5 F** may 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 **Talaris 4.5 F** to control listed diseases on non-commercial fruit and nut trees.

Note: Talaris 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.

PRECAUTION:

This product may be phytotoxic to Swedish lvy (Nephrolepsis exaltata), Boston Fern (Plectranthus australis), and Easter Cactus (Hatiora gaertneri).

RESTRICTIONS

DO NOT apply more than 24 fl. oz. (0.84 lb. Al) per 100 gal. water per application.

DO NOT apply more than 85.3 fl. oz. (3.0 lbs. Al) per acre per year.

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.

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

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 fl. oz. (0.3-0.84 lb. Al) of **Talaris 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 **Talaris 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

RESTRICTION: *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 ¹
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 (Diplodia pinea)	Shade and ornamental trees
Ovulinia	Azalea, rhododendron ²
Entomosporium Leaf Spot	Woody and herbaceous ornamentals
Fusicaladium 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

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

Hydraulic Application Mixing Instructions

Add the required amount of **Talaris 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 spray equipment.

Application Concentrations (Mechanical or Hand-Held):

Use the labeled amount of **Talaris 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 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.



²Begin 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.

FOLIAR DISEASES

DISEASE(S) CONTROLLED	CONCENTRATION OF TALARIS 4.5 F FL OZ/100 GALS	APPLICATION INSTRUCTIONS
Anthracnose (Colletotrichum)	10.75-20 (0.376-0.7 lb. Al)	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 (Diplocarpon rosae)	10.75-20 (0.376-0.7 lb. Al)	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 (Monlinia, Sclerotina, Whetzellinia)	10.75-20 (0.376-0.7 lb. Al)	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. Al)	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. DO NOT use fruit from treated crabapple or pear trees for food purposes.
Leaf Spots and Blights caused by: Ascochyta, Blumeriella, Botrytis, Cercospora, Coccomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssoninia, Mycosphaerella, Myrothecium, Phoma, Physalaspora, Schizothyrium, Septoria, Sphaceloma	10.75-20 (0.376-0.7 lb. Al) (10-14.5; California Only) (0.35-0.51 lb. Al)	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. Al)	Apply as flowers open. Repeat every 7 to 14 days during disease period.
Powdery Mildews Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca	10-20 (0.35-0.7 lb. Al)	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 triadimefofon can be utilized.
Rust Diseases caused by: Puccinia, Gymnosporangium, Uromyces	10.75-20 (0.376-0.7 lb. Al)	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 Sphaeropsis sapinae, Diplodia pinea	14.5-20 (0.51-0.7 lb. Al)	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 Diaporthe, Kabatina, Phoma, Phomopsis RESTRICTIONS FOR FOLIAR SPRAY APPLICATIONS	14.5-20 (0.51-0.7 lb. Al)	Apply when symptoms first appear. Repeat applications every 7 to 14 days during disease period.

RESTRICTIONS FOR FOLIAR SPRAY APPLICATIONS:

Maximum Single Application Rates:

Ornamentals: DO NOT exceed the maximum single application rate of 85.3 oz. Talaris 4.5 F per acre (3.0 lbs. thiophanate-methyl active ingredient per acre per year).

Cut Flowers: DO NOT exceed the maximum single application rate of 14.2 oz. Talaris 4.5 F per acre (0.5 lb. thiophanate-methyl active ingredient per acre per year).

Yearly Maximum Application:

All Ornamentals: DO NOT apply more than 66.6 gallons (8,533 fl. oz.) Talaris 4.5 F (300 lbs. thiophanate-methyl active ingredient per acre per year).

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 Talaris 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. Al) of Talaris 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.; 0.28 lb. Al) or after transplanting (12-16 fl. oz.; 0.42-0.56 lb. Al) 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 guide is 0.25-3.0 pints of finished mixture per sq. ft. depending on the media type and depth (about 4 fl. oz. (0.1 lb. Al) per 4 inch pot or 8 fl. oz. (0.28 lb. Al) per 6 inch pot). Make repeat applications at 21- to 28-day intervals depending on disease presence and conditions for disease development.

RESTRICTIONS:

DO NOT apply more than 20 fl. oz. (0.7 lb. Al) per acre per application.

DO NOT exceed 66.6 gal. (8,533 fl. oz.; 300 lbs. Al) per acre per year from all thiophanate-methyl containing products.

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

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

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 Talaris 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.

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

Application Concentration and Dipping Time

Plants or Cuttings: Use 14.5 to 20 fl. oz. (0.51-0.7 lb. Al) of Talaris 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: 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. Al) of **Talaris 4.5 F** per 100 gallons of water or two teaspoons of **Talaris 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, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicilium, Ramularia, Rhizoctonia, Sclerotinia, and Thielaviopsis.

BACKYARD FRUIT AND NUT TREES*

RESTRICTIONS:

*Not approved for this use in California

DO NOT apply more than 19.5 fl. oz. (0.7 lb. Al) per acre per application.

DO NOT apply more than 59 fl. oz. (2.07 lbs. Al) per acre per year, except pistachios.

For pistachios, **DO NOT** apply more than 39 fl. oz. (1.37 lbs. Al) per acre per year.

DO NOT apply more than 3 applications per year, expect pistachios.

For pistachios, **DO NOT** apply more than 2 applications per year.

The minimum re-treatment interval is 14 days.

Not for use by homeowners.

Certified applicators:

If this product is used on a tree producing fruits or nuts which will be used for food or feed:

- **DO NOT** apply to home orchards/backyard fruit or nut trees after fruit or nut set.
- 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).

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



VEGETABLE TRANSPLANTS (Greenhouse and Nursery Use Only)*:

VEGETABLE TRANSPLANTS	DISEASES CONTROLLED	RATE OF TALARIS 4.5 F	APPLICATION INSTRUCTIONS
Beans, dry and succulent 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	Anthracnose Colletotrichum Gray Mold Botrytis White Mold Sclerotinia	29-39 fl. oz./Acre¹ (1-1.37 lbs. Al) or 19-29 fl. oz./Acre² (0.67-1 lb. Al)	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.

Restrictions for use on Beans, dry and succulent:

*Not approved for this use in California

DO NOT apply more than 39 fl. oz. (1.37 lbs. Al) per acre per application.

DO NOT apply more than 80 fl. oz. (2.8 lbs. Al) per acre per year.

DO NOT apply more than 2 applications at the highest rate (39 fl. oz.) or 4 applications at the lowest rate (19 fl. oz.) per year.

The minimum re-treatment interval is 4 days.

The PHI (CALIFORNIA ONLY) is 14 days for succulent beans and 28 days for dry beans and lima beans.

The PHI (all other states) is 14 days for succulent beans and lima beans and 28 days for dry beans.

Not intended for field vegetable production.

The state of the s	·		
CUCURBITS (Cantaloupe, Casaba, Cucumbers, Melons, Pumpkins, Summer	Anthracnose* Colletotrichum	10 fl. oz. /Acre ³ (0.35 lb. Al)	Begin applications when plants begin to run or when disease first appears, and repeat at 7 to 14 day intervals.
and Winter Squash, and Watermelons)	Gummy Stem Blight* Didymella		For Target Spot use at 7 day intervals.
	Powdery Mildew* Erysiphe, Sphaerotheca, Podosphaera		
	Target Spot* Corynespora		
	Belly Rots* Rhizoctonia, Fusarium	10 fl. oz./Acre ³ (0.35 lb. Al)	Apply in sufficient volume to allow runoff to the soil. Will not control <i>Pythium</i> or <i>Phytopthora</i> .

Restrictions for use on Cucurbits:

*Not approved for this use in California

DO NOT apply more than 10 fl. oz. (0.35 lb. Al) per acre per application.

DO NOT apply more than 60 fl. oz. (2.1 lbs. Al) per acre per year from any combination of application timings.

DO NOT apply more than 6 applications per year.

The minimum re-treatment interval is 7 days.

Follow resistance management guidelines under Directions for Use.

Not intended for field vegetable production.

- 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 pounds active ingredient per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 2.8 pounds active ingredient per acre. 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 pounds active ingredient per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 2.1 pounds active ingredient per acre. 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 pounds active ingredient per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 0.7 pounds active ingredient per acre. For example, if 200 gallons of water are required, use 0.35 pounds active ingredient per 100 gallons.

TURF APPLICATIONS

Use **Talaris 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 **Talaris 4.5 F** both preventatively and curatively; it is not phytotoxic on turfgrass.

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 Talaris 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 (such as but not limited to Bentgrasses, Bermudagrasses, Bluegrasses, Fescues, Ryegrasses, St.



Augustine grasses and Zoysia grasses) or their mixtures.

RESTRICTIONS:

- DO NOT use Talaris 4.5 F on turf being grown for sale or other commercial uses including sod.
- 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.
- DO NOT graze animals on treated turf.
- DO NOT feed clippings to livestock or poultry.
- DO NOT exceed the amounts per acre or reduce the re-treatment interval indicated in the table below.

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 Talaris 4.5 F	Minimum Re-Treatment Interval	Restrictions/Limitations
Residential or Public Areas	1 ³ / ₄ fl. oz. / 1,000 sq. ft. (0.06125 lb. Al)	14 days	
Golf Course Tees, Greens, Aprons	5 ¹ / ₃ fl. oz. / 1,000 sq. ft. (0.186 lb. Al)	14 days	
Golf Course Fairways – except Florida	3 ½ fl. oz. / 1,000 sq. ft. (0.122 lb. Al)	14 days	Excludes Florida.
Golf Course Fairways – Florida Only	1 ³ / ₄ fl. oz. / 1,000 sq. ft. (0.06125 lb. Al)	14 days	Florida Only.

Maximum Yearly Application Rates

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

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



DISEASE(S) CONTROLLED	RATE OF TALARIS 4.5 F	APPLICATION INSTRUCTIONS
5102402(0) 00111102125	FL OZ/1000 SQ FT*	AIT EIGAIGH MOING
Anthracnose (Colletotrichum graminicola)	2-3.5 (0.07-0.122 lb. Al) (3.5-5.3)** (0.122-0.186 lb. Al)	For prevention in historic areas of disease pressure, apply twice at 14 day intervals when soil temperature reaches 60°F. For curative control, apply when disease first 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 (Gaeumannomyces graminis var. graminis) Take-All-Patch (Gaeumannomyces graminis var. avenae)	3.5-5.3 (0.122-0.186 lb. Al)	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 (Coprinus psychromorbidus)	3.5-5.3 (0.122-0.186 lb. Al)	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 (Moellerodiscus, Lanzia, Sclerotinia homeocarpa) Copper Spot (Gloeocercospora sorghi) Large Brown Patch and Zoysia Patch (Rhizoctonia solani) Ascochyta Leaf Blight (Ascochyta) Fusarium Patch (Fusarium nivale) Red Thread (Laetisaria fuciformis)	2-3.5 (0.07-0.122 lb. Al)	Apply when disease first appears. Make additional applications at 14-day intervals as needed. Rotations an/or tank mix combinations with chlorothalonil, iprodione, or mancozeb can be utilized.
Pink Snow Mold (Microdochium nivale)	2-5.3 (0.07-0.186 lb. Al)	Apply Talaris 4.5 F 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 (Puccinia, Uromyces)	3.5-5.3 (0.122-0.186 lb. Al)	Apply at 14 day intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or mancozeb are specified.
Gray Leaf Spot (Pyricularia grisea)	3.5-5.3 (0.122-0.186 lb. Al)	Apply preventative application before expected period of disease development. Continue at 14-day intervals.
Summer Patch (Magnaporthe poae)	3.5-5.3 (0.122-0.186 lb. Al)	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 (Ophiosphaerella agrostis)	3.5-5.3 (0.122-0.186 lb. Al)	For prevention, apply in early June or based upon local Extension Service directions. Apply at 14 day intervals. Rotations and/or tank mix combinations may be used for season long disease prevention.
Fusarium Blight (Fusarium roseum, F. triticum)	3.5-5.3 (0.122-0.186 lb. Al)	Apply when disease first appears at 14 day intervals.
Cool Season Brown Patch (Rhizoctonia cerealis) Necrotic Ring Spot and Spring Dead Spot (Leptosphaeria korrae)	3.5-5.3 (0.122-0.186 lb. Al)	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, Curvularia, Exserohilum</i>)	3.5-5.3 (0.122-0.186 lb. Al)	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 (Ustilago striiformis)	3.5-5.3 (0.122-0.186 lb. Al)	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. (0.122-0.186 lb. Al) 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 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 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.

Warranty and Disclaimer Statement

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. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Atticus, LLC ("Atticus"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Atticus warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Atticus, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ATTICUS, LLC DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ATTICUS, LLC, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ATTICUS, LLC IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ATTICUS, LLC, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ATTICUS LLC'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

Talaris™ is a trademark of Atticus, LLC Topsin® is a trademark of Nippon Soda Company, Ltd. 3336® is a trademark of Nufarm Americas Inc.

20230601ap1

