



ACTIVE INGREDIENT:% **BY WT.**
 Tebuconazole: alpha-[2-[4-chlorophenyl]ethyl]alpha-[1,1-dimethylethyl]-1H-1,2,4-triazole-1-ethanol 45.0%
INERT INGREDIENTS: 55.0%
TOTAL..... 100.0%
EPA Reg. No. 264-749-6622 **EPA Est. No. 3125-MO-1**

STOP - READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN
WARNING-AVISO
 FOR FIRE, SPILL AND/OR LEAK EMERGENCIES, CONTACT INFOTRAC: 1-800-535-5053
 FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT PROSAR: 1-877-250-9291
 Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (TO THE USER: If you do not understand the label, find someone to explain it to you in detail.)

Manufactured for:
Makhteshim Agan of North America, Inc.
 551 Fifth Avenue/Suite 1100
 New York, NY 10176
M A N A

Net Contents: 2 Pounds

| FIRST AID | |
|--------------------------------|--|
| IF IN EYES: | <ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 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: | <ul style="list-style-type: none"> 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. |
| IF INHALED: | <ul style="list-style-type: none"> 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. |

Have a product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.
Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING
 Causes substantial but temporary eye injury. Harmful if swallowed, inhaled, or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
 Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA Chemical Resistant Category Selection Chart.
Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

| USER SAFETY RECOMMENDATIONS | |
|-----------------------------|---|
| Users should: | <ul style="list-style-type: none"> Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. |

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

DIRECTIONS FOR USE
 It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS
 Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label fall or when first leaves unfold and continue applications at 7- to 14-day intervals. Applications should be made at 7-day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.
Leaf spot: Begin application at petal fall or when first leaves unfold and continue applications at 7- to 14-day intervals. Applications should be made at 7-day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.
Powdery mildew: Follow leaf spot schedule until terminal growth ceases.
Rust: Begin applications after canker emergence and continue applications at 14-day intervals under severe disease conditions.

Chemigation: Do not apply this product through any type of irrigation system.
Spray Volume: ORIOUS 45DF may be applied in 50 gallons or more of spray solution per acre by ground spray equipment or in 15 gallons or more per acre by aircraft equipment except as noted under "REMARKS" for each crop. Increase spray volume as crop growth increases to ensure thorough coverage of the foliage and fruit. Check equipment calibration frequently. Complete coverage and uniform application are essential for the most effective results, especially when lower spray volumes are applied.
No aerial application is allowed on Long Island, New York.

Mixing: Add recommended amount of ORIOUS 45DF into the spray tank while filling with water to the desired level. Operate the agitator while mixing. If other materials are added to the spray tank, the ORIOUS 45DF should be thoroughly dispersed prior to the addition of other materials.

Compatibility: To determine the compatibility of ORIOUS 45 DF with other products, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly, and allow to stand at least five (5) minutes. If the combination remains mixed or can be remixed readily, the mixture is considered physically compatible. For further information, contact your local Makhteshim Agan representative.

| RECOMMENDED APPLICATIONS | | | |
|------------------------------|--|---------------------|------------------|
| CROP | DISEASE | RATE OF ORIOUS 45DF | |
| CHERRY PEACH NECTARINE | Brown rot (blossom blight, fruit rot) | 2 oz/100 gal* | 4 to 8 oz/acre** |
| | Leaf spot Powdery mildew | | |
| PEACH | Rust | 2 oz/100 gal | 5 to 8 oz/acre |

Blossom blight: Begin application at white bud on cherry or pink bud on peach and nectarine. Apply again at 50% bloom and at petal fall if conditions continue to be favorable for disease development.

Fruit rot: Begin application at two to three weeks before harvest and continue at 7-day intervals through the day of harvest. The blossom and fruit stages must be protected for optimum control of brown rot. If ORIOUS 45DF is applied during only one of these stages, another registered fungicide should be applied to the other stage to provide optimum protection. Additional cover sprays during the early postbloom period are also important for preventing quiescent fruit infections in sweet cherry and peach.

Leaf spot: Begin application at petal fall or when first leaves unfold and continue applications at 7- to 14-day intervals. Applications should be made at 7-day intervals early in the growing season when terminal growth is rapid and/or under severe disease conditions. A postharvest application may be made to maintain control and reduce overwintering inoculum.

Powdery mildew: Follow leaf spot schedule until terminal growth ceases.
Rust: Begin applications after canker emergence and continue applications at 14-day intervals under severe disease conditions.

GENERAL USE DIRECTIONS:
 ORIOUS 45DF may be applied up to and including the day of harvest (0-day PHI). Do not apply more than 3 lb of product per acre per crop season.
 ORIOUS 45DF is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in tank-mix or alternated (every other spray application) with a non-DMI (protectant) fungicide as a resistance management strategy. Do not mix ORIOUS 45DF with other DMI fungicides.
Spray Drift Management: The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.
 * When using the 2 oz/100 gal rate, use at least 4 oz of ORIOUS 45DF per acre.
 ** The amount of ORIOUS 45DF required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees. For smaller trees, multiply 2 oz times the number of 100 gallons of spray solution required to thoroughly wet, to the point of runoff, one acre of the trees being treated. For concentrate sprays, apply the same amount of product per acre as would be applied in a dilute spray based on tree size and foliage volume, but not less than 4 ounces of ORIOUS 45DF per acre. Apply 6 to 8 ounces per acre of ORIOUS 45DF when severe disease conditions exist.

| RECOMMENDED APPLICATIONS | | |
|--------------------------|-----------------------------|---------------------|
| CROP | DISEASE | RATE OF ORIOUS 45DF |
| GRAPES | Black rot Powdery mildew | 4 oz per acre |

Powdery Mildew
 Apply in a preventive spray schedule. Make the first application of ORIOUS 45DF before bloom and continue applications using spray intervals of up to 21 days in low to moderate disease pressure. Use a 14-day schedule when disease pressure is severe.

Black Rot
Preventive Schedule: Make the first application at 1- to 3-inches of new shoot growth and continue at 7- to 14-day intervals through 5° Brix stage or until veraison (berry coloring) is complete. Apply at 1-inch new shoot growth and at 7- to 10-day intervals on highly susceptible varieties or under severe disease conditions.
Post-Infection Schedule: A post-infection schedule may be followed from 1-inch new shoot growth through 5° Brix stage. Apply within 72 hours after the beginning of an infection period. ORIOUS 45DF applications should not be closer than 7 days apart. Continue ORIOUS 45DF applications using the preventive schedule if the post-infection schedule is discontinued.

Botrytis
 ORIOUS 45DF, applied in a powdery mildew spray schedule, will enhance the activity of registered fungicides used for control of Botrytis bunch rot. Applications must be made on a 14-day schedule for suppression of Botrytis.

GRAPES continued...
GENERAL USE DIRECTIONS:
 ORIOUS 45DF may be applied up to 14 days before harvest. A maximum of 2 pounds of ORIOUS 45DF may be applied per acre per crop season. **The minimum interval between applications is 7 days.**
 By ground application only in the state of New York.
 Apply product in sufficient water for thorough coverage of vines and fruit. Increase spray volume as vine growth increases.

ORIOUS 45DF is a sterol demethylation inhibitor (DMI) fungicide. It may be applied in a tank-mix or alternated (every other spray application) with a non-DMI fungicide as a resistance management strategy. Tank-mixing ORIOUS 45DF with other DMI fungicides is not recommended.

| RECOMMENDED APPLICATIONS | | |
|--------------------------|--------------------------------------|---------------------|
| CROP | DISEASE | RATE OF ORIOUS 45DF |
| BANANA PLANTAIN | Black Leaf Streak Yellow Sigatoka | 3.2 oz per acre |

Apply specified dosage as a foliar spray in a minimum of 20 gallons or more of water per acre to assure thorough coverage of the plants. A spray oil recommended for use on banana or plantain should be utilized at 4.5 pints per acre in tank-mix with ORIOUS 45DF Thoroughly mix ORIOUS 45 DF in the spray solution prior to the addition of a spray oil. Make the first application before disease becomes established and repeat applications at 14-day intervals if necessary to maintain disease control.

Do not apply ORIOUS 45DF to non-bagged bananas. A maximum of 16 oz of ORIOUS 45DF may be applied per acre per harvest cycle. ORIOUS 45DF may be applied up to the day of harvest.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.
Spray Drift Management: The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.
Buffer Zone Requirements: For soil or foliar applications, do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.
Recommendations For Aerial Applications: The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.
Importance of Droplet Size: An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
Wind Speed Restrictions: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
Restrictions During Temperature Inversions: Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. 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 mixing.

Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards: Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e. turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

Runoff Management: Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

ROTATIONAL CROPS
 Any crop not specified on this label may be planted into treated areas 120 days after last application.

STORAGE AND DISPOSAL
 Do not contaminate water, food, or feed by storage or disposal.
PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle an open container in a manner as to prevent spillage. If container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. Contact INFOTRAC at 1-800-535-5053.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE
 Read the entire Directions for Use and Warranty Statement before using this product. If terms are not acceptable, return the unopened product container at once.
 By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

WARRANTY STATEMENT
 MAKHTESHIM AGAN OF NORTH AMERICA warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MAKHTESHIM AGAN OF NORTH AMERICA. To the extent allowed by law, MAKHTESHIM AGAN OF NORTH AMERICA shall not be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, MAKHTESHIM AGAN OF NORTH AMERICA makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at MAKHTESHIM AGAN OF NORTH AMERICA's election, the replacement of this product.

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