

# **GRAPES**

## General Information

Chemigation: Do not apply this product through any type of irrigation system.

Spray Volume: ORIUS 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 ORIUS 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 ORIUS 45DF should be thoroughly dispersed prior to the addition of other materials.

Compatibility: To determine the compatibility of ORIUS 45DF 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.

## Limitations, Restrictions, and Exceptions

Powdery Mildew: Apply in a preventive spray schedule. Make the first application of ORIUS 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 o 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 o Brix stage. Apply within 72 hours after the beginning of an infection period. ORIUS 45DF applications should not be closer than 7 days apart. Continue ORIUS 45DF applications using the preventive schedule if the post-infection schedule is discontinued.

Botrytis: ORIUS 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.

#### GENERAL USE DIRECTIONS:

ORIUS 45DF may be applied up to 14 days before harvest. A maximum of 2 pounds of ORIUS 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.

ORIUS 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 ORIUS 45DF with other DMI fungicides is not recommended.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Foliar spray](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Foliar spray](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Foliar spray](#)

Rates

[field\\_rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[Powdery Mildew: Before bloom and continue applications using spray intervals of up to 21 days](#)

[Black Rot: Preventive Schedule: At 1- to 3-inches of new shoot growth and continue at 7- to 14-day intervals through 5 o Brix stage or until veraison \(berry coloring\) is complete.](#)

[Black Rot: Post-Infection Schedule: From 1-inch new shoot growth through 5 o Brix stage.](#)