

GRAPES

General Information

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

Product Information: Zen-O-Spore is a biological control agent developed specifically for the control of *Botrytis cinerea* and *Sclerotinia sclerotiorum*.

Zen-O-Spore is a live spore preparation of a non-pathogenic saprophytic fungus. Zen-O-Spore acts as a biological control agent by competing for the same ecological niche as the plant pathogens *Botrytis cinerea* and *Sclerotinia sclerotiorum*.

When Zen-O-Spore spores are deposited on the dead and senescent plant debris they germinate and colonize. The developed mycelium will proceed to colonize the dead tissue and additional sporulation can occur and these new spores are then available to colonize remaining debris.

Zen-O-Spore aggressively occupies the same physical space and out competes *Botrytis* spp. and *Sclerotinia* spp. for the nutrients in the dead and senescing plant tissue; it is a true antagonist. Zen-O-Spore is noninvasive and causes no damage to live plant tissue. With this mechanism of action, it is highly unlikely that resistance to Zen-O-Spore will develop.

Integrated Pest Management: Integrating Zen-O-Spore into an overall pest management strategy and following best management practices (or practices known to reduce disease development) makes it less likely that disease will be established. Specific IPM strategies developed for your crop and location may be available from the Extension Service or other local agricultural authorities.

Mixing and Application Instructions:

MIXING: Dilute Zen-O-Spore with water and apply in conventional spray equipment. Partially fill the spray tank with clean water and begin agitation. Add the specified amount of Zen-O-Spore to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. Add a surfactant or a non-ionic adjuvant to improve product wetting / spreading. Maintain agitation continuously while spraying. Use spray mixture immediately. Do not allow spray mixture to stand

overnight or for prolonged periods.

APPLICATION: Apply Zen-O-Spore using conventional spray equipment to the point of saturation. Good coverage and wetting is required. The amount of spray solution to apply will vary depending on the type of crop. Most row crops will require up to 100 gallons of spray per acre. Apply in sufficient water to achieve thorough coverage.

COMPATIBILITY: Zen-O-Spore may be tank mixed with some fungicides. Do not tank mix Zen-O-Spore with more than one product. Consult specific product labels for additional information or restrictions concerning tank mixing. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

It is always advisable to conduct a spray compatibility test when you plan to mix this product with another product. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank.

Zen-O-Spore has been evaluated for phytotoxicity on a variety of crops under various normal growing conditions. However, testing all crop varieties, in all mixtures and combinations is not feasible. Prior to treating entire crop, test a small portion of the crop for sensitivity.

Limitations, Restrictions, and Exceptions

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Apply at early and late bloom, then again when the berries are pea-sized, and finally at prebunch closure. Spray onto vines ensuring the bunch zone is well covered.

Method

[Spray](#)

Rates

[field_rates 0](#)

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Restricted Entry Interval

4 hours

Timings

[At early and late bloom, then again when the berries are pea-sized, and finally at pre-bunch closure.](#)