

# **WATERMELON, ETC. - GUMMY STEM BLIGHT/VINE DECLINE**

## General Information

### GENERAL PRECAUTIONS AND RESTRICTIONS

Apply only during alternate years in fields adjacent to aquatic areas such as lakes, reservoirs, rivers, permanent streams, marshes or natural ponds and estuaries. This product must not be applied within 150 feet (for aerial and air-blast applications), or 25 feet (for ground applications) from the aquatic areas listed above unless there is an untreated buffer area of that width between the area to be treated and the water body.

Do not use in greenhouses or other enclosed areas.

### INTEGRATED PEST MANAGEMENT

Muscle ADV is a combination of systemic and contact fungicides with two different modes of action. Muscle ADV is an excellent disease control agent when used according to label directions for control of a broad spectrum of plant diseases. Muscle ADV is recommended for use in programs that are compatible with the principles of Integrated Pest Management (IPM), including the use of disease resistant crop varieties, cultural practices, pest scouting and disease forecasting systems which reduce unnecessary applications of pesticides.

### FUNGICIDE RESISTANCE MANAGEMENT

Muscle ADV is effective for strategic use in programs that attempt to minimize disease resistance to fungicides. Some other fungicides which are at risk from disease resistance exhibit a single-site mode of fungicidal action. The chlorothalonil in Muscle ADV is a multi-site mode of action and may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your federal or state Cooperative Extension Service representatives for guidance on the proper use of Muscle ADV in programs which seek to minimize the occurrence of disease resistance to other fungicides.

### Limitations, Restrictions, and Exceptions

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### Application Directions:

Apply the specified dosage in a protective spray schedule to foliage and fruit. Repeat applications at 10- 14 day intervals. Muscle ADV must have 2 - 4 hrs of drying time to allow tebuconazole to move systemically into plant tissue before rain or irrigation occurs. After this time Muscle ADV will be resistant to weathering.

The Chlorothalonil component of Muscle ADV enhances the control of Powdery mildew (*Podosphaera xanthii* syn., *Sphaerotheca fuliginea*). For best control of foliage diseases, apply Echo 720 fungicide to the crop prior to and following applications of Muscle ADV. Follow application directions reported in Echo 720 label for a complete disease protection program. Apply by ground or air.

Do not apply more than 6.4 pints of this product (equal to 10.8 oz tebuconazole ai and 2.42 lbs chlorothalonil ai) per acre, per season.

Note: Spraying mature watermelons may result in sunburn of the upper surface of the fruit. DO NOT apply Muscle ADV to watermelons when any of the following conditions are present:

1. Intense heat and sunlight;
2. Drought conditions;
3. Poor vine canopy;
4. Other crop and environmental conditions which may be conducive to increased natural sunburn.

Before combining Muscle ADV with anything except water for application to watermelons ensure that prior use has shown the combination to be non-injurious to watermelons under your conditions of use.

### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Pre-Harvest Interval

7 days

Rates

[field\\_rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[N. A.](#)