DECIDUOUS FRUITS AND NUTS IN ORCHARDS - PHYTOPHTHORA DISEASES (NONBEARING)

General Information

GENERAL INFORMATION

MetaStar 2E is a systemic fungicide for use on selected crops to control certain diseases caused by members of the Oomycete class of fungi. Other fungicides must be used to control diseases incited by other classes of fungi.

THIS PRODUCT IS NOT TO BE USED IN FOLIAR APPLICATIONS UNLESS SPECIFIED ON THE LABEL OR IN SOLUTIONS USED TO DIP PLANTS.

Resistance Management: MetaStar 2E is a systemic fungicide having a specific mode of action and could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore LG cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following the use of MetaStar 2E as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a MetaStar 2E insensitive strain of fungi, neither MetaStar 2E nor any other fungicide with similar action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance on your particular crop and disease control situation.

Do not make foliar applications to field grown tobacco or other crops unless specified, since this practice may encourage more rapid development of insensitivity.

THE LABEL IS FOR FIELD USE ONLY AND IS NOT INTENDED FOR USE ON TRANSPLANT TRAYS, GREENHOUSES, LATH HOUSES, FLOAT HOUSES, HYDROPONIC PRODUCTION, OR IN BEDDING PLANT STRUCTURES.

REPLANTING

If replanting is necessary, additional application of MetaStar 2E may be made provided that the total amount of active ingredient in MetaStar 2E applied does not
exceed the maximum allowed for the specific crop.

**ROTATION (PLANTBACK) RESTRICTION**

Do not plant any crop which is not registered for use with the MetaStar 2E active ingredient in soil treated with this active ingredient for a period of 12 months, unless a shorter interval is specified. (Refer to the table of rotational crops and their planting time from last MetaStar 2E application.)

**CONIFERS, NON-BEARING CITRUS, NON-BEARING DECIDUOUS FRUITS AND NUTS, ORNAMENTALS AND TURF**

MetaStar 2E is a systemic fungicide for use on ornamentals, turf, nonbearing citrus grown in nurseries and as landscape plantings, conifers grown in nurseries and plantations, including Christmas trees and nonbearing deciduous fruit and nut trees grown in nurseries.

Resistance Management: MetaStar 2E is a systemic fungicide having a specific mode of action and could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore LG cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following the use of MetaStar 2E as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a MetaStar 2E insensitive strain of fungi, neither MetaStar 2E nor any other fungicide with similar action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance on your particular crop and disease control situation.

Do not make foliar applications to field grown tobacco or other crops unless specified, since this practice may encourage more rapid development of insensitivity.

**THE LABEL IS FOR FIELD USE ONLY AND IS NOT INTENDED FOR USE ON TRANSPLANT TRAYS, GREENHOUSES, LATH HOUSES, FLOAT HOUSES, HYDROPONIC PRODUCTION, OR IN BEDDING PLANT STRUCTURES.**
To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

Where rate ranges are specified on the label, use the higher rate when heavy disease pressure is expected and the lower rate when disease pressure is expected to be light unless otherwise noted.

ATTENTION: UNDER CONDITIONS CONDUCIVE TO EXTENDED INFECTION PERIODS, ADDITIONAL FUNGICIDE APPLICATIONS BEYOND THE NUMBER ALLOWED BY THE LABEL MAY BE NEEDED. UNDER THESE CONDITIONS, USE ANOTHER FUNGICIDE REGISTERED FOR THE CROP/DISEASE APPEARING ON THE LABEL.

Conditions conducive to extension of infection periods include: (1) a cool and wet environment for Pythium seeding disease, (2) long growing seasons, (3) a cool and humid environment for downy mildew and (4) use of susceptible varieties.

Application Instructions

Apply MetaStar 2E by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Apply in a minimum of 20 gals. per acre for ground applications and 5 gals. per acre by air. Refer to the specific crop directions for use for application recommendations.

For banded applications, the area actually is the area covered by the band, not total cropland area planted. Some row-crop recommendations are based on treating in-the-row and these rates generally are specified as amounts (fl. oz.) of product per certain row length (often 1,000 ft.). Others express rates as amount per treated acre which means the total area treated with the pesticide. If rates are expressed as amount per treated acre and banded applications are used, the amount of pesticide used per acre will be proportionately less. The following formula can be used to calculate the amount of MetaStar 2E needed per acre of crop when banded applications are made.

REPLANTING

If replanting is necessary, additional application of MetaStar 2E may be made provided that the total amount of active ingredient in MetaStar 2E applied does not exceed the maximum allowed for the specific crop.
Limitations, Restrictions, and Exceptions

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- For bearing Deciduous Fruits & Nuts, see Directions for Use under the Apples and Stone Fruits, Walnuts and Almonds sections of the label.

- Phytophthora Diseases Use of MetaStar 2E will aid in the control of crown, collar, and root rot of deciduous fruit and nut trees caused by Phytophthora spp. when used in conjunction with good cultural practices and rootstocks that are most tolerant to the disease. Applications should be made before symptoms appear, especially in areas favorable for disease development.

MetaStar 2E will not revitalize trees showing moderate to severe disease symptoms. On new plantings, make the first applications at the time of planting (See NOTE below). Additional applications should be made at three-month intervals during the time when conditions are favorable for disease development. For established plantings, make the first application in the spring before growth starts.

- Apply 2 gals. per treated acre (6 fl. oz. per 1,000 sq. ft.) in sufficient water to obtain uniform coverage of the soil under the canopy of the trees. For banded applications, use the formula in the General Information section of the label to calculate the amount of MetaStar 2E needed per acre. Soil surface sprays of MetaStar 2E will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.

- NOTE: (1) Do not apply to plantings that will bear harvestable fruit within 12 months of the last application, or possible illegal residues may result. (2) To avoid injury, do not use MetaStar 2E to dip or spray tree roots. Do not concentrate it around the tree trunks. (3) Do not apply to trees under stress. (4) For intense plantings (2 to 3 times the normal planting rate), make applications on a per area basis, i.e. per acre or 1,000 sq. ft. Do not calculate the amount of MetaStar 2E on a per tree basis. (5) In California, do not apply MetaStar 2E to newly planted trees within 90 days of planting. (5) Do not apply more than 6 gals. of MetaStar 2E per treated acre per year.

Method

Broadcast/Foliar Ground
Band application
Broadcast/Foliar Ground
Band application
Rates
field_rates 0
field_rates 1

Restricted Entry Interval

48 hours

Exception: If the product is soil-injected or soil-incorporated, 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.

Timings
At-Plant
Before symptoms appear, especially in areas favorable for disease development.