

# **FLOWERS, FOLIAGE PLANTS, AND ORNAMENTALS: COLUMBINE**

## General Information

### PRODUCT INFORMATION

PENNCOZEB 80WP is a wettable powder containing a coordination product of zinc ion and manganese ethylenebisdithiocarbamate, and is labeled for use as a spray for the control of many important plant diseases.

PENNCOZEB 80WP also may be used for manufacturing, repackaging, or formulation of other fungicides if the formulator, user group or grower has complied with U.S. EPA data submission requirements regarding the support of such uses.

### INSTRUCTIONS FOR APPLICATION

Apply PENNCOZEB 80WP at the rate range indicated for the crop/disease in sufficient water for thorough coverage. For ground applications, apply in a minimum of 10 gallons per acre for field/row crops and 20 gallons per acre for orchard/tree and vine crops. For aerial applications, apply in a minimum of 2 gallons per acre for field/row crops and 10 gallons per acre for orchard/tree and vine crops.

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

Use a Spreader Sticker at rate of 4 fl. oz. per 100 gallons spray if needed. Add product slowly to water in the spray tank with agitation, or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension.

When dosage ranges are given, use the higher rate and shorter intervals under severe disease pressure, but do not exceed the maximum rate or apply more frequently than the minimum retreatment interval given in the directions for that crop.

### MAXIMUM SEASONAL POUNDAGE WHEN USED IN CONJUNCTION WITH ONE OR MORE OTHER EBDC PRODUCTS

## FOLIAR APPLICATIONS

Where EBDC Products Used Allow The Same Maximum Poundage of Active Ingredient Per Acre Per Season

If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season

If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

## SEED TREATMENT

In addition to the maximum number of foliar applications permitted by the formula stated above, a single application for seed treatment may be made on crops which have registered seed treatment uses.

Note: This product is not recommended for the treatment of marigolds due to highly variable plant responses.

Limitations, Restrictions, and Exceptions

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NOT FOR RESIDENTIAL USE ON FRUIT TREES.

TREATED PLANTS MUST NOT BE USED FOR FOOD OR FEED PURPOSES.

Plant sensitivities to PENNCOZEB 80WP have been found to be acceptable in

specific genera and species listed on the label, however, phototoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for sensitivity to PENNCOZEB 80WP. Neither the manufacturer nor seller has determined whether or not PENNCOZEB 80WP can be safely used on ornamental or nursery plants not listed on the label. The user should determine if PENNCOZEB 80WP can be used safely prior to commercial use. In a small area, apply the labeled rates to the plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use. Use PENNCOZEB 80WP on container, bench or bed-grown ornamentals in greenhouses or outdoor nurseries, for professional use on ornamentals grown for indoor and outdoor landscaping, and for control of fungal diseases of foliage, flowers and stems.

**Aerial Application:** For aerial applications made to field-planted ornamentals, apply 1 to 2 lbs. per acre; use a minimum of 10 gals. of spray per acre during aerial applications.

**Application of Dilute Sprays:** Apply as thorough coverage spray using 1 to 2 lbs. PENNCOZEB 80WP per acre or 1 to 2 lbs. per 100 gals. of water (1 1/2 to 3 tsp. per gal.). Begin application at first sign of disease and repeat at 7 to 10 day intervals as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist. PENNCOZEB 80WP may be used alone or in combination with other fungicides as a maintenance spray. Use higher rate and shorter intervals during periods of excessive wetness and rapid plant growth.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

#### Rates

[field\\_rates 0](#)

[field\\_rates 1](#)

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#### Restricted Entry Interval

24 hours

#### Timings

[At first sign of disease and repeat at 7 to 10 day intervals as needed.](#)