

DIRECTIONS

Du Pont "Manzate" 200 Fungicide should be used only in accordance with recommendations on this label, or in separate published Du Pont recommendations available through local dealers.

"Manzate" 200, a wettable powder containing a coordination product of zinc ion and maneb, is recommended for use as a spray or dust for the control of many important plant diseases.

AS A SPRAY (Ground or Aerial Equipment)—Apply "Manzate" 200 at the rate shown; use sufficient water to provide thorough coverage, usually 20 to 100 gals. per acre for ground equipment and 5 to 8 gals. per acre for aircraft. Use Du Pont Spreader-Sticker at rate of 4 fl. ozs. per 100 gals. spray if needed. Add "Manzate" 200 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.

AS A DUST—Apply "Manzate" 200 at the rate shown, using proper amount of dust containing 6% to 10% "Manzate" 200 (4.8% to 8% active). Dust may be prepared by diluting and thoroughly mixing "Manzate" 200 with pyrophyllite or other neutral diluent; commonly used insecticides may displace an equivalent amount of diluent. Use dust mixtures as soon as possible after preparation.

NOTICE TO BUYER: Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. This warranty does not extend to use of this product contrary to label use directions, or under abnormal use conditions, or under conditions not reasonably foreseeable to seller; buyer assumes all risk of any such use. Seller makes no other warranties, express or implied.

FIELD CROPS

WHEAT, BARLEY, OATS, RYE: Helminthosporium leaf blight and Septoria leaf spot—Use 2 lbs. "Manzate" 200 per acre. Begin applications at tillering-to-jointing stage and repeat at 7- to 10-day intervals. Do not make more than 3 applications; do not apply within 26 days of harvest; do not graze treated area within 26 days after application.

SUGAR BEETS: Cercospora leaf spot—Use 1½ to 2 lbs. "Manzate" 200 per acre. Begin applications when disease first threatens and repeat at 7- to 10-day intervals. Do not apply within 14 days of harvest. Do not feed treated sugar beet tops to livestock.

PEANUTS: Cercospora leaf spot—Use 1 to 2 lbs. "Manzate" 200 per acre. Begin applications when disease first appears and repeat at 10- to 14-day intervals, or at 7-day intervals during humid weather. Do not feed treated peanut vine hay to livestock.

COTTON (Southwest only): Rust—Use 1¼ to 2 lbs. "Manzate" 200 per acre. Begin applications when rust first appears in the area and repeat at 10- to 14-day intervals. Do not apply after bolls open; do not graze treated areas nor feed gin trash to livestock.

VEGETABLE CROPS

POTATOES: Early and late blights—Use 1 to 2 lbs. "Manzate" 200 per acre. Begin applications when plants are 4 to 6 inches high; repeat at 7- to 10-day intervals (more frequently under severe disease conditions) throughout the season.

POTATO TUBER TREATMENT: Fusarium seed piece decay—Dip whole or cut seed pieces in mixture of 1¼ lbs. "Manzate" 200 per 50 gals. water, drain, and plant immediately; if seed pieces are to be held before planting, spread out to dry in a cool place. For dust treatment, thoroughly coat with dust containing 10% "Manzate" 200 (8% active) at rate of 1 lb. per 100 lbs. of seed. Do not use treated seed pieces for food or feed purposes.

CONTINUED ON RIGHT PANEL

ACCEPTED

7-27-72



REG. U. S. PAT. OFF.

MANZATE[®]

FUNGICIDE

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese ethylenebisdithiocarbamate in which the ingredients are

80%
16%
2%
62%

INERT INGREDIENTS

20%

EPA Reg. No. 352-341-AA

B-20254 4-72

Keep out

CAUTION!

Avoid breathing dust or spray mist. Keep

In case of contact, flush skin or eyes.

IMPORTANT—Never allow "Manzate" 200 as a fungicide container closed when not in use.

Do not re-use container; bury in lakes, streams or ponds. Do not use in or near any body of water.

NET 50 LBS.

E. I. DUPONT DE NEMOURS & COMPANY
BIOCHEMICALS DEPARTMENT, WILMINGTON, DELAWARE

◀ DIRECTIONS CONTINUED FROM LEFT PANEL

TOMATOES: Early and late blights, gray leaf spot, gray leaf mold, and anthracnose—Use 1½ to 3 lbs. "Manzate" 200 per acre. Begin applications when seedlings emerge and repeat at 7-day intervals throughout the season. Do not apply within 5 days of harvest.

Bacterial leaf spot—Use 1½ lbs. "Manzate" 200 combined with 4 lbs. tribasic copper sulfate, per acre. Begin applications when seedlings emerge, and repeat at 3- to 4-day intervals as needed. Do not apply within 5 days of harvest.

CUCUMBERS, MELONS, SUMMER SQUASH: Anthracnose, Alternaria and Cercospora leaf spots, downy mildew, gummy stem blight, and scab—Use 2 to 3 lbs. "Manzate" 200 per acre. Begin applications at the 2-leaf stage and repeat at 5- to 7-day intervals. Do not apply within 5 days of harvest.

CORN (Sweet, Field, Popcorn): Helminthosporium leaf blight—Use 1½ lbs. "Manzate" 200 per acre. Begin applications when disease first appears and repeat at 4- to 7-day intervals. Do not apply to field corn or popcorn within 40 days of harvest. Do not apply to sweet corn within 7 days of harvest; do not feed treated sweet corn forage or fodder to livestock.

ONIONS (Dry Bulb): Botrytis leaf blight, downy mildew, neck rot, and purple blotch—Use 2 to 3 lbs. "Manzate" 200 per acre. Begin applications when diseases are first reported in the area and repeat at 7-day intervals throughout the season. Do not apply within 7 days of harvest; do not apply to exposed bulbs.

CELERY, FENNEL: Early and late blights—Use 2 lbs. "Manzate" 200 per acre. Begin applications in plant bed as soon as plants emerge; repeat at 3- to 5-day intervals in plant bed, and at 7-day intervals after plants are set in field. Do not apply to celery within 14 days of harvest, nor to fennel within 7 days of harvest.

CARROTS: Alternaria and Cercospora leaf spots—Use 1½ to 2 lbs. "Manzate" 200 per acre. Begin applications when disease first appears and repeat at 7- to 10-day intervals. Do not apply within 7 days of harvest; do not use treated tops for food or feed purposes.

ASPARAGUS: Rust—Use 2 lbs. "Manzate" 200 per acre. Begin applications when rust first appears and repeat at 10-day intervals as needed. Use only on ferns after spears have been harvested.

FRUIT AND NUT CROPS

APPLES, PEARS, CRABAPPLES, QUINCE: Bitter rot, black rot, brown rot, cedar-apple rust, fly speck, scab, and sooty blotch—Use "Manzate" 200 at 1 to 2 lbs. per 100 gals. of finished spray and apply up to 10 lbs. product per acre per application (for low volume sprays, adjust accordingly). Apply at 7- to 14-day intervals throughout the season. For scab, begin at green tip or delayed dormant stage; for cedar apple rust, at blossom time; for other diseases, at first cover. Add Spreader-Sticker to spray mixture for last 3 cover sprays. Do not apply within 15 days of harvest (30 days for apples); do not graze livestock in treated areas.

CRANBERRIES: Fruit Rot—Use 3 to 6 lbs. "Manzate" 200 per acre. Begin applications at mid-bloom and repeat at 7- to 10-day intervals. Do not apply within 30 days of harvest.

GRAPES: Black rot, bunch rot, dead arm, and downy mildew—Use 1½ to 4 lbs. "Manzate" 200 per acre. Apply when shoots are ½ to 1½ inches long, when shoots are 3 to 5 inches long, and when shoots are 8 to 10 inches long. Continue at 10- to 14-day intervals but do not apply within 66 days of harvest; in California, do not apply after fruit set.

PAPAYAS: Anthracnose and Phytophthora fruit rot—Use 2 to 2½ lbs. "Manzate" 200 per acre; add Spreader-Sticker to spray mixture. Begin applications at flowering time; repeat at 14-day intervals, or at 7-day intervals under severe disease conditions. Treat crown and blossom area.

ROAT, AND SKIN.
OR SWALLOWED.
in, eyes, and clothing.

, get medical attention.

et during storage. This
the effectiveness of
be flammable. Keep

oxic to fish. Keep out
product or container

A. PRINTED IN U.S.A

C.)
RE

AGRICULTURAL BULLETIN



BENLATE[®] BENOMYL FUNGICIDE
PLUS
MANZATE[®] 200 FUNGICIDE
Peanuts

SUPPLEMENTAL LABELING
EPA REG. NOS. 352-354 and 352-341

BENLATE[®] BENOMYL FUNGICIDE PLUS
MANZATE[®] 200 FUNGICIDE (TANK MIX)
FOR CONTROL OF CERTAIN DISEASES OF PEANUTS



Du Pont "Benlate" Benomyl Fungicide plus "Manzate" 200 Fungicide is recommended for the control of Cercospora leafspot and rust of peanuts.

HOW TO USE

Apply with ground or aerial equipment at the rate of 1/4 lbs. "Benlate" plus 1 1/2 lbs. ³⁵²⁻³⁵⁴ "Manzate" 200 per acre in sufficient water to obtain thorough coverage of the plants (20 to 100 gals. by ground equipment; 5 to 10 gals. for aircraft).

Begin application 35 to 40 days after planting or when disease symptoms first appear; for rust, repeat at 7- to 10-day intervals; for Cercospora leafspot, repeat at 10- to 14-day intervals. Use the shorter interval under severe disease conditions. Do not apply within 14-days of harvest. Use the shorter interval under severe disease conditions. Do not apply within 14 days of harvest; do not graze or feed treated vines, hay, or hulls to livestock.

Add the required amount of "Benlate" and "Manzate" 200 to a partially filled spray tank agitated by hydraulic or mechanical means; continuous agitation is required to keep the material in suspension. Non-phytotoxic emulsifiable oil (60 to 70 second viscosity range) may be added to the spray mixture at the rate of 1 pt. to 1 qt. per acre to improve dispersion of spray and coverage of plant foliage.

Note: This tank mixture is toxic to fish. Keep out of lakes, streams or ponds. Do not apply when weather conditions favor drift from area treated. Do not contaminate water by cleaning of equipment or disposing of wastes.

IMPORTANT

BEFORE USING "BENLATE" AND "MANZATE" 200, READ AND CAREFULLY OBSERVE THE CAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON PRODUCT LABELS.

AGRICULTURAL BULLETIN



BENLATE^(a) Plus MANZATE^(b) 200
Apples

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SUPPLEMENTAL LABELING
EPA REG. NOS. 352-354 and 352-341

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13 NOV 1974

REGISTRATION DIVISION
PESTICIDES, EPA

file 3-773
BENLATE^(a) BENOMYL FUNGICIDE PLUS MANZATE^(b) 200 FUNGICIDE
352-341
AS A TANK MIXTURE FOR CONTROL OF CERTAIN DISEASES OF APPLES

Du Pont "Benlate" Benomyl Fungicide plus Manzate^(b) 200 Fungicide as a tank mixture is recommended for the control of scab, powdery mildew, cedar apple rust, quince rust, sooty blotch, flyspeck, bitter rot, black rot and brown rot.

HOW TO USE - TANK MIXTURE

Use 2 to 3 oz. of "Benlate" plus 12 oz. "Manzate" 200 per 100 gals. of water. Non-phytotoxic superior type spray oil (60 to 70 sec. viscosity) may be added at the rate of 1 qt. per 100 gallons. Begin applications at 1/2" green tip and repeat at 7- to 14-day intervals (or as needed) through cover sprays. Under severe disease conditions, use the shorter interval and the higher rate of "Benlate" in the tank mixture.

Apply 200 to 500 gals. of spray per acre with hydraulic ground equipment. Use the lower volume for small trees (up to 12 ft.) and the higher volume for larger trees. Use the equivalent amount of the products (including oil) per acre with concentrate sprayers.

Add spray oil and use the higher rate of "Benlate" on varieties more susceptible to powdery mildew, and also for scab, if an application is missed and an infection period has occurred. Apply as soon as possible after the infection period in order to deactivate scab and prevent further infection.

With Golden Delicious, adverse effects on fruit finish and color may result; if finish and color are of primary importance, do not use more than 2 oz. "Benlate" per 100 gals.

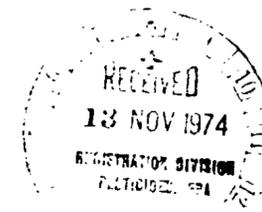
Note: Do not use alkaline pesticides, such as basic copper sulfate, Bordeaux mixture, or lime sulfur, as a tank mixture with "Benlate". Consult product labels before applying other pesticides either in conjunction with spray oil or in tandem before or after oil application. Do not apply within 21 days of harvest in Arkansas, Delaware,

Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, New Jersey, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia and West Virginia. Do not apply within 30 days of harvest in other states. Do not graze livestock in treated orchards. Do not contaminate water by cleaning of equipment or disposal of wastes.

IMPORTANT

BEFORE USING "BENLATE", "MANZATE" 200 AND SUPERIOR TYPE SPRAY OIL READ AND CAREFULLY OBSERVE THE CAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE PRODUCT LABELS.

This bulletin contains new or supplemental instructions for use of these products which may not appear on package label. Follow the instructions carefully.



10/29/74