



... NET 2½ GALS.

MANZATE 200

FLOWABLE FUNGICIDE

Contains 4.0 Lbs. Active Per Gallon

ACTIVE INGREDIENT:

A coordination product of zinc ion and manganese ethylenebisdithiocarbamate

in which the ingredients are

Manganese

Zinc

Ethylenebisdithiocarbamate ion ($C_2H_4N_2S_2$)

INERT INGREDIENTS

37.0%

7.4%

0.9%

28.7%

63.0%

Keep out of reach of children.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! MAY IRRITATE EYES, NOSE, THROAT, AND SKIN.
MAY BE HARMFUL IF INHALED OR SWALLOWED.

Avoid contact with skin, eyes, and clothing. Avoid breathing spray mist.

Wear protective clothing including long pants, long sleeve shirt, gloves, hat and boots during mixing and loading operations.

Do not apply this product in such a manner as to directly or through drift expose workers, other persons, or animals. The area being treated must be vacated by unprotected persons.

First Aid: In case of contact, flush skin or eyes with plenty of water, for eyes, get medical attention.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water and wetlands. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

Made in U.S.A.

Printed in U.S.A.

U.S. Pat. 3,379,610

EPA Reg. No. 352-398

STORAGE AND DISPOSAL

STORAGE: Important—Keep in a cool place but not below 32°F. Temperature extremes will affect the quality of "Manzate" 200 Flowable. Store product in original container only, away from other pesticides, fertilizer, food, or feed.**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at approved waste disposal facility. Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

AG 22181 10-83A

EPA Est. 37429-GA-1

E. I. DU PONT DE NEMOURS & CO. (INC.), AGRICULTURAL CHEMICALS DEPT., WILMINGTON, DE

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the such label only when used in accordance with the directions under normal use, associated with the use of this product. Crop injury, ineffectiveness, or other factors as weather conditions, presence of other materials, or the manner of use of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect loss. All such risks shall be assumed by the Buyer. DU PONT MAKES NO WARRANTY, PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the directions. "Manzate" 200 FLOWABLE should be used only in accordance with the complete recommendations available through local dealers.

Du Pont will not be responsible for losses or damages resulting from use of this product. User assumes all risks associated with such nonrecommended use.

"Manzate" 200 FLOWABLE containing a coordination product of zinc ion and many important plant diseases.

Do not enter treated areas without protective clothing until sprays have dried. Be especially careful of crops treated with this product. Consult your State Department of Agriculture for more information.

When oral warnings are given, warnings shall be given in a language customarily used in the area. When oral warnings cannot be understood by workers, written warnings shall be posted in the area.

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As a Spray (Ground or Aerial Equipment)—Apply "Manzate" 200 FLOWABLE at coverage usually 20 to 100 gals. per acre for ground equipment and 5 to 8 gals. per acre for aerial application. Thoroughly in separate holding tank for concentrate or sprayer.

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CROPS	DISEASES	QUANTITIES PER ACRE	APPLICATION
Apples, Crabapples, Quince	Scab	8.8 - 17.6 per 100 gals. up to 8.4 gals./acre	Begin at or delay 7-14 days
	Carbon Apple Rust		Begin at 7-14 days
	Bitter Rot, Black Rot, Brown Rot, Fly Spock, Sooty Blotch		Begin at or delay 7-14 days
Apples, Crabapples, Quince	Scab, Powdery Mildew, Sooty Blotch, Flyspock, Carbon Apple Rust, Quince Rust, Brown Rot, Black Rot, Brown Rot	20 to 100 gals. per acre or 5 to 8 gals. per 100 gals. may be used with or without adjuvant	Apply at green to full bloom or as late as possible up to 100 gals.
Asparagus	Rust	1.7	Begin at or delay 10 days
Corn (standing stock)	Common Rust	0.8 per 100 gals.	Begin at or delay 10 days
Bananas	Seporia	1.7 - 3.4	Begin at or delay 14 - 21
Cassia	Anthracnose, Botrytis, Fungal, Mold	3.3 per 100 gals.	Cut tops and treat 15
Corn (seed)	Anthracnose and Cercospora Leaf Spot	1.1 - 1.7	Begin at or delay 7-10 days

*Add spreader sticker.

Use 3 or 4 gal. of "Bordeaux" and add spray oil for varieties more susceptible to powdery mildew or for downy mildew and prevent further infection.

BEST AVAILABLE

CROPS	DISEASES	APPLICATION		LAST APPLICATION DAYS	
		QUANTITIES PER ACRE	HOW TO APPLY	NO HARVEST	TO LIVESTOCK OR HUMAN CONSUMPTION
Corn —Borer —Oat —Fly —Worm	Heliothis zea (Corn Earworm) Soybean Leaf Spot	1.7	Begin at first sign of feeding stage/7-14 days Maximum of 3 applications	26	Do not graze live stock on treated areas within 20 days after application
Cotton	Early Blight, Late Blight	1.7	Begin at emergence/3-5 days from last 7 days in field	14 Cotton 7 days	Do not graze live stock on treated areas within 20 days after application
Cucumbers	Leptodermium Fungus	1.3 per 100 gals*	Nursery plantings and newly transplanted stock/21 days during growing season/20 days rest of year		
Corn —producers, insect —field, hybrid seed production	Heliothis zea (Corn Earworm)	1.3	Begin when disease appears/4-7 days	7 Sweet 40 field producers & seed prod	Do not graze in field sweet corn, forage, or fodder
Cotton (Seedling only)	Rust	1-1.7	Start when rust appears/10-14 days	Do not apply after buds open	Do not graze or feed grain to stock
Cucumber	Fruit Rot	2.5-5*	Begin at end bloom/7-10 days	30	
Cucumbers	Alternaria Leaf Spot, Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Blight, Scab	1.7-2.5	Begin at 2 leaf stage/5-7 days	5	
Grapes	Black Rot, Bunch Rot, Dead Arm, Downy Mildew	1.3-3.4	Apply when shoots are 16-18 inches long, 3-5 inches long, 8-10 inches long, continue at 10-14 days	66 (CA—do not apply after fruit set)	
Melons	Alternaria Leaf Spot, Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Blight, Scab	1.7-2.5	Begin at 2 leaf stage/5-7 days	5	
Onions (Dry Bulb)	Blot (Blue) Leaf Blight, Downy Mildew, Purple Blotch (Blight), Neck Rot	1.7-2.5	Begin when the leaves are reported in rows/7 days	7 (Do not apply to suspended bulbs)	
Seed—(Dry Bulb)	Onion Smut (an emerging seedlings in much soil)	2.5	Follow (Onion) at planting		
Peppers	Anthracnose, Phytophthora Fruit Rot	1.7-2.1*	Begin at flowering stage/10-14 days, crown, blossom area, and developing fruit of tree/7-14 days		
Peonies	Cercospora Leaf Spot, Rust	0.8-1.2	Begin when disease appears/10-14 days (Phased conditions) 7 Phased conditions	14	Do not feed treated leaves to livestock

*Add spreader sticker

CROPS	DISEASES	APPLICATION		LAST APPLICATION DAYS	
		QUANTITIES PER ACRE	HOW TO APPLY	NO HARVEST	TO LIVESTOCK OR HUMAN CONSUMPTION
Peonies (and mix with "Bumble")	Cercospora Leaf Spot	1.3 plus 4 lb of "Bumble"	Begin 25-40 days after planting, or when disease first appears/10-14 days	14	Do not graze or feed treated leaves, hay or hays to livestock
	Ascochyta Web Blotch	1.3 plus 4 lb of "Bumble"	Begin 25-40 days after planting, or when disease first appears/10-14 days		
	Rust	1.3 plus 4 lb of "Bumble"	Begin 25-40 days after planting, or when disease first appears/10-14 days		
Pears	Scab	0.8-1.2 per 100 gals up to 0.4 gals/acre	Begin at green tip to delayed dormant/7-14 days	15	Do not graze pear. Add spreader sticker during last 3 flower stages
	Cider Apple Rust	-	Begin at blossom time/7-14 days		
	Bitter Rot, Black Rot, Brown Rot, Py Spot, Sooty Blotch	-	Begin at first green/7-14 days		
	Four Pests (Phytophthora, Phoma, Botrytis, and Alternaria)	1.3-1.7 per 100 gals up to 0.4 gals/acre	Begin at petal fall—first postharvest. Use at 2-3 weeks when high populations occur/14-20 days	15	Do not graze
Pineapple	Phytophthora Heart Rot	2.7 per 100 gals	Preplant Dip		
Potatoes	Early Blight, Late Blight	0.8-1.7	Begin when plants are 4-6 inches high/7-10 days		
Peas and peas	Fusarium Seed Piece Decay, Common Scab	2.1 per 100 gals	Dip seed. Plant at soon as possible following treatment	Do not use treated peas for seed or food purposes	
Squash	Alternaria Leaf Spot, Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Blight, Scab	1.7-2.5	Begin when plants are in 2 leaf stage/5-7 days	5	
Sugar Beets	Cercospora Leaf Spot	1.3-1.7	Begin when disease first appears/7-10 days	14	Do not feed treated tops to livestock
Tomatoes	Anthracnose, Blue Mold	0.4 per 100 gals apply 3-5 gals/100 sq yd. of plant bed	Begin when plants are about the size of a dime or when first mold appears/3-14 days after trans. planting		
—Plant Bed	Blue Mold	0.8-1.2 per 100 gals	Begin when first mold is reported in the rows/3-7 days		
—Field	Anthracnose, Early Blight, Gray Leaf Mold, Gray Leaf Spot, Phytophthora, Late Blight	1.3-2.5	Begin when seedlings emerge/7 days	5	
Tomatoes	Bacterial Spot	1.3 plus 4 lb of "Bumble" copper sulphate	Begin when seedlings emerge/3-4 days	5	

*Add spreader sticker

CROPS	DISEASES	APPLICATION	
		QUANTITIES PER ACRE	HOW TO APPLY
Turn Greens	Alga	10 lb. or / 1000 sq. ft.	Begin when algae is first to appear/7 days
	Cercospora Spot, Fungal Blight, F. Rot, Root Rot, Stem Blight	7.5 lb. or / 1000 sq. ft.	Begin when green growth is in spring/7-14 days
	Butter Spot (Sclerotinia)	10 lb. or / 1000 sq. ft.	Use during lower able disease conditions/7 days
		14 lb. or / 1000 sq. ft.	Begin when green growth is in spring/7-14 days
		14 lb. or / 1000 sq. ft.	Use during lower able disease conditions/7 days
	Foot (Fusarium) Stem Rot	10 lb. or / 1000 sq. ft.	During winter/14-21 days
	Leaf Spot (Phoma) (stem rot) (Phoma) (stem rot) (Phoma) (stem rot)	5.7 lb. or / 1000 sq. ft.	Begin when disease appears/7-10 days, then 6 weeks—7-14 days, then 14-21 days, then 14-21 days
		10 lb. or / 1000 sq. ft.	Use during lower able disease conditions/3-5 days
	Pythium Blight	14 lb. or / 1000 sq. ft.	Begin at first sign of disease/7-10 days or more often during lower able disease conditions
	Leaf Stem and Stipe Rot	5.7 lb. or / 1000 sq. ft.	Begin when disease appears/7-10 days

SEED TREATMENT	DISEASES	SEED TREATMENT RATE—APPLY AS FLOID OR ARI	
		FLOID OR ARI	FLOID OR ARI
Barley	Seed Decay, Smoothing Blight, Covered Smut, Rust	2.2	
Corn	Damping Off, Seed Rot, Smoothing Blight	2.5	
Cotton	Acid deficient	-	
Regiment	Damping Off, Smoothing Blight	-	
Flax	Seed Decay, Smoothing Blight	3.4	
Oats	Seed Decay, Smoothing Blight, Loose Smut	2.2	
Potato tubers	Fusarium Seed Piece Decay, Seed Borne, Common Scab	-	
Rice	Asch, Other Soil and Seed Borne Fungal Causing Seed Rot and Reduced Smoothing Vigor	-	3.4-6.7 (2-4) Apply before sowing
Rye	Seed Decay, Smoothing Blight, Covered Smut, Rust	2.2	
Saltwater	Puccinia Carthageni Cells (which causes hot and wet disease and delays seed growth)	-	
Sorghum	Damping Off, Smoothing Blight	2.5	
Tomatoes	Damping Off, Smoothing Blight	-	
Wheat	Seed Decay, Smoothing Blight, Covered Smut, Rust	2.2	

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