

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Mr. Richard Fisher  
 E. I. DuPont De Nemours & Co., Inc.  
 Agricultural Products Business  
 Barley Mill Plaza, P.O. Box 80038  
 Wilmington, DE 19880-0038

Dear Mr. Fisher:

Subject: Amended Labeling - Adjustment of the PHI for Potatoes  
 DuPont Manzate 200 Flowable Fungicide, EPA Registration  
 No. 352-398  
 DuPont Manzate 200 DF Fungicide, EPA Registration  
 No. 352-449 ✓  
 Your Submissions Dated June 23, 1992

The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable, provided that you:

1. Make the labeling changes listed below before you release the products for shipment bearing the amended labeling:

- In the Reentry Statement, revise the posting statement to replace "until sprays have dried or dusts have settled." with appropriate restrictions for agricultural and turf uses. Turf grown on sod farms is considered an agricultural use. Add "(including sod farms)" following Agricultural Uses or "(other than sod farms)" following turf uses.

2. Submit one (1) copy of your final printed labeling for each product before you release the products for shipment.

Stamped copies of the labeling are enclosed for your records.

Sincerely yours,

*Susan T. Lewis*

Susan T. Lewis  
 Product Manager (21)  
 Fungicide-Herbicide Branch  
 Registration Division (H7505C)

Enclosure

CONCURRENCES							
SYMBOL	H7505C:J. Fairfax:	352-398&	449:8/13/92				
SURNAME							
DATE							

REGISTRATION CODE 0600-000

PACKAGE SIZE  
8 - 6 POUND BAGS / CARTON  
50 - POUND BAGS



# MANZATE® 200 DF

## FUNGICIDE

DISPERSIBLE GRANULES

### ACTIVE INGREDIENT

A coordination product of zinc ion and manganese ethylene-bisdithiocarbamate in which the ingredients are:

Manganese++	15.0%	75%
Zinc++	1.9%	
Ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> )=	58.1%	

INERT INGREDIENTS	25%
TOTAL	100%

This product contains the toxic inert ingredient paraformaldehyde.

EPA Reg No. 352-449

KEEP OUT OF REACH OF CHILDREN

## CAUTION

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Keep away from fire or sparks.

All agricultural workers/handlers (i.e. mixers, loaders, and applicators) applying this product must wear coveralls over a long sleeved-shirt and long pants; shoes, socks, and chemical-resistant gloves must also be worn. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn. See Directions For Use.

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.

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Dilute by giving two glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

**IF INHALED:** Move subject to fresh air. Consult a physician.

**IF IN EYES:** Flush eyes with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.

**IF ON SKIN:** Wash affected skin areas with soap and water. Consult a physician if irritation persists.

For medical emergencies involving this product, call toll free 1-800-441-3637.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or incorporate spilled treated seed. Do not contaminate water by disposing of equipment washwaters.

### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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

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

"Manzate" 200 DF, a dispersible granule containing mancozeb, is recommended for use as a spray for the control of many important plant diseases.

### WORKER SAFETY RULES

Keep all unprotected persons, children, livestock, and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. See "Statement of Practical Treatment"

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**PERSONAL PROTECTIVE EQUIPMENT**-For Mixers, Loaders, Applicators and Early Reentry Workers.

**HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT:** All agricultural workers/handlers (i.e., mixers, loaders, and applicators) applying this product must wear coveralls over a long sleeved-shirt and long pants; shoes, socks, and chemical-resistant gloves must also be worn. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn.

For agricultural workers, where completely enclosed cabs with positive pressure filtration or an enclosed cockpit for aerial application are used, a long-sleeved shirt and long pants may be worn in place of the protective clothing worn above. Chemical-resistant gloves must be available in the cab or cockpit and worn upon exiting. The gloves must be kept in an enclosed container in the cab or cockpit to prevent contamination of the inside of the cab or cockpit.

**IMPORTANT!** Before removing gloves, wash them with soap and water. Always wash hands, face, and arms with soap and water before eating, smoking or drinking. Always wash hands and arms with soap and water before using the toilet.

After work take off all clothes and shoes. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with mancozeb must be destroyed according to state and local regulations.

**HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

During aerial application, human flaggers are prohibited unless in totally enclosed vehicles

#### **REENTRY STATEMENTS**

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Warnings must include the following information: "CAUTION Area treated with 'Manzate' 200 DF on (date of application). Do not enter without appropriate protective clothing until sprays have dried or dusts have settled. In case of contact, flush skin or eyes with plenty of water, for eyes, consult a physician if irritation persists."

#### **For Agricultural Uses**

After sprays have dried do not enter or allow entry into treated areas until the 24-hour reentry interval has expired unless wearing the personal protective equipment listed on this label

#### **For Turf Uses**

Do not enter treated areas without protective clothing until sprays have dried.

### **APPLICATION INSTRUCTIONS**

**AS A SPRAY** (Ground or Aerial Equipment)—Apply "Manzate" 200 DF at the rate shown, use sufficient water to provide thorough coverage, use 20 to 100 gals per acre for ground equipment and no less than 2 gals per acre for aircraft. Add "Manzate" 200 DF 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. Add a spreader-sticker spray adjuvant if needed.

### **CHEMIGATION**

Apply "Manzate" 200 DF Fungicide only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems only on crops specifically designated in the "Directions For Use" for that particular crop. Do not apply "Manzate" 200 DF through any other type of irrigation system or on any other crops.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### **Specific Instructions for Public Water Systems:**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
7. Do not apply when wind speed favors drift beyond the area intended for treatment

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**Specific Instructions for Sprinkler Irrigation Systems:**

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Good agitation is required in the injection tank.
9. In moving systems, apply specified dosage of "Manzate" 200 DF as a continuous injection. In nonmoving systems inject "Manzate" 200 DF for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
10. Mix the amount of "Manzate" 200 DF needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For nonmoving systems inject into system for the time established during calibration.
11. Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all "Manzate" 200 DF is flushed from system.

**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

CROP	DISEASES CONTROLLED	RATE OF MANZATE 200 DF PER APPLICATION LBS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Apples (See Pomefruit)				
Asparagus	Cercospora leaf spot Rust	2	Start applications when rust first appears and repeat at 10 day intervals. Four applications are usually sufficient.	Apply only on asparagus ferns after spears have been harvested. Do not apply within 180 days of harvest in all states except CA and AZ (120 days). Do not apply more than 8 lbs (6 lbs active) per acre per season.
Asparagus Crown (planting stock)	Crown rot	1 lb per 100 gals	Dip clean, loosely packed crowns into continuously agitated fungicide suspension for 5 minutes. Drain and plant as soon as possible.	Wash dirty crowns before dip treatment. Replace suspension in clean tank when discolored by soil.
Bananas	Sigatoka	2 to 3	Apply when leaves first appear and repeat every 14 to 21 days or as required. Use sufficient water to provide adequate coverage. The addition of a surfactant to spray solutions will improve performance.	Do not apply more than 30 lbs (22.5 lbs active) per acre per growing cycle. Minimum preharvest interval (0 days)

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**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

CROP	DISEASES CONTROLLED	RATE OF MANZATE 200 DF PER APPLICATION LBS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Barley, Oats, Rye, Wheat	Helminthosporium leaf spot Leaf rust Septoria glume blotch Septoria leaf spot Tan spot	2	Start application at onset of disease or when plants are in the tillering to jointing stage and repeat at 7 to 10 day intervals. The addition of a surfactant to spray solutions will improve performance.	Do not make more than three applications during the season. Do not apply more than 6 lbs (4.5 lbs active) per acre per crop. Do not apply after Feekes' growth stage 10.5. Do not apply within 26 days of harvest. Do not graze livestock in treated areas prior to harvest.
Caprifig (Non-food use)	Endosepsis (Fusarium) Mold	4 lbs/100 gals	Prepare mamme figs by making a shallow cut through the eye and then hand dividing to avoid wasp injury. Submerge mamme figs in the continuously agitated suspension for at least 15 minutes. Drain before placement in trees.	Use fresh dipping suspension after treating 4 to 5 batches of figs.
Corn (sweet corn for fresh use and hybrid seed production),  (popcorn)  (field and field corn for hybrid seed production)	Common rust Helminthosporium leaf blight	1 1/2	Use sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4 to 7 day intervals.  The addition of a surfactant to spray solutions will improve performance.	Do not apply within 7 days of harvest. Do not apply more than 22.5 lbs (17 lbs active) per acre per crop east of Mississippi and AR and LA. Do not apply more than 7.5 lbs (5.6 lbs active) per acre per crop west of the Mississippi except AR and LA. Do not feed treated forage to livestock. Do not apply within 40 days of harvest. Do not apply more than 15 lbs (11.25 lbs active) per acre per crop. Do not feed treated forage to livestock.
Cotton (Southwest only)	Rust	1 1/4 to 2	Begin when rust first appears in the area. Repeat at 10 to 14 day intervals.	Do not apply after buds open. Do not apply more than 6 lbs (6 lbs active) per acre per crop. Do not apply within 45 days of harvest. Do not feed treated forage to livestock. Do not feed gin trash to livestock. Do not graze livestock in treated areas.

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BEST MANAGEMENT PRACTICES

**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

CROP	DISEASES CONTROLLED	RATE OF MANZATE 200 DF PER APPLICATION LBS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Cranberries	Fruit rot	3 to 6	Start applications at mid-bloom and repeat at 7 to 10 day intervals.	Do not apply within 30 days of harvest. Do not apply more than 18 lbs (13.5 lbs active) per acre per season.
Cucumbers	Anthracnose Cercospora leaf spot Downy mildew Gummy stem blight Scab	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs (18 lbs active) per acre per crop.
Fennel	Early & late blights	2	Begin in plant beds at emergence. Repeat at 7 to 10 day intervals.	Do not apply within 14 days of harvest. Do not apply more than 16 lbs (12 lbs active) per acre per crop. Do not graze treated area to livestock.
Grapes (East of the Rocky Mountains)	Black rot Bunch rot Deadarm Downy mildew	1 1/2 to 4	Apply in sufficient water to provide thorough coverage starting when new shoots are 1/2 to 1 1/2 inches long. Repeat when shoots are 3 to 5 inches long, when shoots are 8 to 10 inches long, and then at 7 to 10 day intervals until fruit is set. For late season control of black rot, deadarm and downy mildew the use of other approved and recommended fungicides is suggested.	Do not apply within 66 days of harvest. Do not apply more than 24 lbs (18 lbs active) per acre per season.
(West of the Rocky Mountains)		1 1/2 to 2 1/2		Do not apply within 66 days of harvest except in CA where no application can be made after bloom. Do not apply more than 15 lbs (5.6 lbs active) per acre per season.

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**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

CROP	DISEASES CONTROLLED	RATE OF MANZATE 200 DF PER APPLICATION LBS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Melons Cantaloupes Casaba Crenshaw Honeydew Watermelon	Alternaria leaf spot Anthracnose Downy mildew Gummy stem blight Cercospora leaf spot	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces. Some varieties are sensitive to Manzate 200 DF fungicide. Consult State Cooperative Extension Service Specialist prior to use.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs (18 lbs active) per acre per crop.
Oats (See barley)				
Onions (dry bulb)         (furrow drench)	Botrytis leaf blight Downy mildew Neck rot Purple blotch  Smut	3	Follow a protective spray schedule starting when diseases are first reported in the areas and repeat at 7 day intervals throughout the season. The addition of a surfactant to spray solutions will improve performance.  Apply 3 lbs per acre as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of water per acre.	Do not apply within 7 days of harvest. Do not apply to exposed bulbs. Do not apply more than 30 lbs (22.5 lbs active) per acre per crop.  Do not use more than 2.25 lbs active per acre (29,000 linear feet of furrow) with an 18 inch row spacing.
Papaya	Anthracnose (Colletotricum) Phytophthora fruit rot Black spot (Cercospora)	2 to 2.5 (minimum 50 gals per acre)	Begin at flowering; treat central column crown, blossom area and developing fruit. Repeat at 14 to 21 day intervals.	Do not use more than 35 lbs (26.25 lbs active) per acre per crop. Minimum pre-harvest interval (0 days).
Peanuts	Cercospora leaf spot Rust	1 to 2	Start application when disease first appears or is reported in area. Repeat sprays at 7 to 14 day intervals. Reduce sprays to a 7 day interval during humid weather.	Do not apply within 14 days of harvest. Do not use more than 16 lbs (12 lbs active) per acre per crop. Do not feed treated vines to livestock
Peanuts (Tank mix with "Benlate" Fungicide)	Ascochyta web blotch Cercospora leaf spot Rust	1 1/2 plus 4 ozs "Benlate"	Begin 35 to 40 days after planting or when disease threatens. Repeat at 7 to 14 day intervals (7 to 10 days for rust).	Do not apply within 14 days of harvest. Do not use more than 12 lbs Manzate 200 DF (9 lbs active) per acre per crop. Do not feed treated vines to livestock.

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**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

CROP	DISEASES CONTROLLED	RATE OF MANZATE 200 DF PER APPLICATION LBS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Pears (See Pomefruit)				
Pineapple (Seed-Piece Treatment Only)	Phytophthora heart rot	3.2 lbs/10 gals. Use up to 100 gals of suspension to treat clean propagation material for one acre.	Dip planting material in fungicide suspension prior to planting. Stir frequently to prevent settling.	Prepare new suspension when 2/3 of volume is used or sooner, if noticeably discolored by soil from plant material.
Pomefruits  Apples Pears Crabapples Quince	Rusts Scab Fabrea leaf spot	6.0 Maximum per acre use rate based on thorough coverage dilute sprays.  Use 2 lbs per 100 gal, up to 300 gal per acre  Consult State Extension Service if necessary to adjust for variable tree size.	<b>Pre-Bloom Use:</b> Begin application at 1/4 to 1/2 inch green tip and continue on a 7 to 10 day schedule through bloom.  Use either the "Pre-Bloom" or "Extended Application" schedule. <b>DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES</b>	Do not apply more than 6 lbs (4.5 lbs active) per acre per application.  Do not apply after bloom.  Do not apply more than 24 lbs (18 lbs active) per acre per year.  Do not graze livestock in treated areas.  It is recommended that this product be used in an Integrated Pest Management Program.
Pomefruits  Apples Pears Crabapples Quince	Rusts Scab Fabrea leaf spot	3.0 Maximum per acre use rate based on thorough coverage dilute sprays.  Use 1 lb per 100 gal, up to 300 gal per acre  Consult State Extension Service if necessary to adjust for variable tree size.	<b>Extended Application Schedule or for Use in Tank Mixtures:</b> For implementation of IPM programs, applications based on tree-row volume, or for use as a resistance management tool; begin applications at 1/4 to 1/2 inch green tip and continue applications on a 7 to 10 day schedule through the second cover spray.  Use either the "Pre-Bloom" or "Extended Application" schedule. <b>DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES</b>	Do not apply more than 3 lbs (2.25 lbs active) per acre per application.  Do not apply within 77 days of harvest.  Do not apply more than 21 lbs (15.75 lbs active) per acre per year.  Do not graze livestock in treated areas.  It is recommended that this product be used in an Integrated Pest Management Program.

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**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

CROP	DISEASES CONTROLLED	RATE OF MANZATE 200 DF PER APPLICATION LBS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Potatoes	Early blight Late blight	1 to 2	Begin applications when plants are 4 to 6 inches high by applying 1 lb per acre. As the vines increase in size, apply 1 1/2 to 2 lbs per acre at intervals of 5 to 10 days.  The addition of a surfactant to spray solutions will improve performance.	Do not apply more than 14 lbs (10.5 lbs active) per acre per crop. Do not use within 3 days of harvest in CT, DE, FL, MA, ME, MI, NH, NY, OH, PA, RI, VT, WI and within 14 days elsewhere Vine-kill should occur 14 days before harvest. It is recommended that this product be used in an Integrated Pest Management Program.
Seedpiece (treatment)	Fusarium decay Seedborne common scab	1 1/4 per 50 gal	Dip whole or cut potato tubers in 1 1/4 lbs Manzate 200 DF fungicide per 50 gallons of water. Place treated tubers in a clean container following treatment and plant as soon as possible. Spread treated seedpieces in a cool place if held before planting.	Do not use treated seed potatoes for food or feed purposes.
Squash (Summer squash)	Downy mildew	2 to 3	Start applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals.  Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces.	Do not apply within 5 days of harvest. Do not apply more than 24 lbs (18 lbs active) per acre per crop.
Sugar Beets	Cercospora leaf spot	1 1/2 to 2	Begin when disease first threatens. Repeat at 7 to 10 day intervals.	Do not apply within 14 days of harvest. Do not apply more than 14 lbs (10.5 lbs active) per acre per crop. Do not feed treated sugar beet tops to livestock.
Tomatoes (East of the Mississippi River)	Anthracnose Early blight Gray leaf spot Late blight Leaf mold Septoria leaf spot	1 1/2 to 3	Start application when seedlings emerge or transplants are set and repeat at 7 to 10 day intervals throughout the season.  The addition of a surfactant to spray solutions will improve performance.	Do not apply within 5 days of harvest. Do not apply more than 21 lbs (15.75 lbs active) per acre per crop.
(West of the Mississippi River)		1 1/2 to 2		Do not apply within 5 days of harvest. Do not apply more than 8 lbs (6 lbs active) per acre per crop.
Watermelon (See Melons)				
Wheat (See Barley)				

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**RECOMMENDED USES** (When this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season)

**TURF GRASSES** - Applications restricted to lawn grasses by professional applicators. Not for homeowner use

CROP	DISEASE/ PEST	RATE	TIMING INTERVAL	LAST APPLICATION TO HARVEST	LIVESTOCK GRAZING/ FEEDING	COMMENTS
Lawn grasses Golf Courses, Sod Farms, Professional Application to industrial (office park), municipal, and residential lawns	Algae	6 ozs in 3 to 5 gals/1000 sq ft (16 lbs in 130-220 gals/acre)	Begin when algae first appears. Repeat at 7-day intervals as long as condition persists		Do not graze treated areas or feed clippings to livestock.	Do not use on grasses grown for seed.
	Leaf stem, strip rust	3-4 ozs in 3 to 5 gals/1000 sq ft (8-11 lbs in 130- 220 gals/acre)	Begin when disease threatens. Repeat at 7 to 10-day intervals as long as disease persists.		Do not graze treated areas or feed clippings to livestock.	Do not use on grasses intended for grazing, such as range or pasture grasses.
	Leaf spot (Helminthosporium spp.) Rhizoctonia solani brown patch	3-4 ozs in 3 to 5 gals/1000 sq ft (8-11 lbs in 130- 220 gals/acre)	Begin when disease threatens Tees and greens: Repeat at 7 to 10- day intervals Fairways: Repeat at 7 to 14-day intervals Home lawns: Repeat at 14 to 21-day intervals Continue as long as disease persists		Do not graze treated areas or feed clippings to livestock.	When conditions are unusually favorable for disease, use 6-8 ozs/1000 sq ft (16-22lbs/acre) and reduce intervals to 3 to 5 days

**SEED TREATMENTS**

LABEL TREATED SEED "Do not use for food, feed or oil purposes. This seed treated with 'Manzate' 200 DF Fungicide."

For seed treatment, a dye must be added to the treating slurry so that an unnatural color will distinguish the seed as treated

CROP	DISEASES	SEED TREATMENT RATE - APPLY AS A SLURRY	
		Ozs/Bu	Ozs/100 lb
Barley	Bunt, Covered smut, Damping off, Fake loose smut, Seed decay, Seeding blights	1.3 to 2.0	2.7 to 4.2
Corn	Damping off, seed rot, seedling blight	1.5 to 3.0	3.0 to 5.4
Cotton Acid Delinted	Damping-off, Seeding blights	--	3
Cotton Reginned	Damping-off, Seeding blights	--	6
Flax	Seed decay, Seeding blights, Damping-off	2.0 to 4.0	3.6 to 7.1
Oats	Damping-off, Seeding blights, Seed decay, Smuts	1.3 to 2.0	4.0 to 6.3
Peanuts (shelled)	Damping-off, Seed rots, Seeding blights	2.0 to 4.0	8.0 to 16.0
Rice	Achlya, other soil and seedborne fungi causing seed rot and reduced seedling vigor	--	2.0 to 4.0 Apply before drying, or after soaking in water
Rye	Bunt, Covered smut, Damping off, Seed decay, Seeding blights	1.3 to 2.0	2.7 to 3.6
Safflower	Puccinia carthami (which causes foot and rot disease and foliage rust disease)	--	2.0
Sorghum	Covered kernel smut, Damping off, Seeding blights, Seed rots	1.5 to 2.5	2.7 to 4.5
Tomatoes	Damping off, Seeding blights, Seed rots	--	8.0
Wheat	Bunt, Covered smut, Damping off, Seed decay, Seeding blights	1.3 to 2.0	2.7 to 3.3

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### STORAGE AND DISPOSAL

**STORAGE:** Important—Never allow "Manzate" 200 DF to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of "Manzate" 200 DF as a fungicide and create vapors which may be flammable. Keep container closed when not in use. Store product in original container only, away from other pesticides, fertilizer, food or feed.

**PRODUCT 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 an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### NOTICE OF WARRANTY

Du Pont 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 the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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