

PM 21 352-341

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 19 1992

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Dear Mr. Richard Fisher
E. I. DuPont De Nemours & Co., Inc.
Agricultural Products Business
Barley Mill Plaza, P.O. Box 80023
Wilmington, DE 19880-0038

Subject: Amended Labeling - Reinstatement of Previously Deleted
Uses
DuPont Manzate 200 Fungicide
EPA Registration No. 352-341
Your Submission Dated March 13, 1992

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

1. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:

- Under Recommended Uses for potatoes, the first sentence under Restrictions/Comments, replace 12.8 with 11.2 (.80 x 14 = 11.2)

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

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

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

Enclosure

H7505C:J.Fairfax:352-341:3/19/92

CONCURRENCES

| SYMBOL | SURNAME | DATE | | | | | | |
|--------|---------|------|--|--|--|--|--|--|
| | | | | | | | | |



MANZATE® 200

FUNGICIDE

WETTABLE POWDER

MAR 13 1972

352-341

ACTIVE INGREDIENT

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

| | |
|---|-----|
| Manganese++ | 16% |
| Zinc++ | 2% |
| Ethylene bisdithiocarbamate ion (C ₄ H ₆ N ₂ S ₄) ⁻ | 62% |

BY WEIGHT

| | |
|-------------------------|------|
| INERT INGREDIENTS | 20% |
| TOTAL | 100% |

This product contains the toxic inert ingredient paraformaldehyde.

EPA Reg No. 352-341

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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 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. Du Pont assumes all risks associated with such nonrecommended use.

"Manzate" 200, a wettable powder 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."

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 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 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 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 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 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 the pump 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.

Specific Instructions for Sprinkler Irrigation Systems:

1. The system must contain a functional check valve, vacuum breaker and low pressure drain appropriately located on the injection 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 as a continuous injection. In nonmoving systems inject "Manzate" 200 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 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 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 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 (4 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 (15 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 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 (4.8 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 (18 lbs active) per acre per crop east of Mississippi and AR and LA. Do not apply more than 7.5 lbs (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 (12 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 bolls open. Do not apply more than 8 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 graze livestock in treated areas. Do not feed gin trash to livestock. |

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 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 (14.4 lbs active) per acre per season. |
| Cucumbers | Anthrachnose 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 (19.2 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 18 lbs (12.8 lbs active) per acre per crop. Do not graze treated areas 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 (19.2 lbs active) per acre per season. |
| | | 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 (12 lbs active) per acre per season. |
| West of the Rocky Mountains) | | | | |

7/24/12

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 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 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 (19.2 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 (24 lbs active) per acre per crop. Do not use more than 24 lbs 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 (28 lbs active) per acre per crop. Minimum pre-harvest interval (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 10 lbs Manzate 200 (9.6 lbs active) per acre per crop. Do not feed treated vines to livestock. |
| Pears (See Pear notes) | | | | |

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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 PER APPLICATION LBS/ACRE | TIMING/INTERVALS (Also refer to Directions for Use) | RESTRICTIONS/COMMENTS |
|---|-----------------------------------|---|--|---|
| 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. | <u>Pre-Bloom Use:</u> 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. DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES | Do not apply more than 6 lbs (4.8 lbs active) per acre per application. Do not apply after bloom Do not apply more than 24 lbs (19.2 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. | <u>Extended Application Schedule or for Use in Tank Mixtures:</u> 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. DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES | Do not apply more than 3 lbs (2.4 lbs active) per acre per application. Do not apply within 77 days of harvest Do not apply more than 24 lbs (16.8 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 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 (12.8 lbs active) per acre per crop. Do not use within 3 days of harvest in CT, FL, ME, MA, NH, NY, PA, 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 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 potato 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 (19.2 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 (11.2 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 (16.8 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) | | | | |

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 Do not use on lawns in parks or recreation application to industrial, office parks, municipal, and residential lawns | Rust | 6 ozs in 3 to 5 gals/1000 sq ft (6 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 droppings 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 droppings to livestock | Do not use on grasses intended for grazing, such as hay or pasture grasses |
| | Leaf spot (Hermatiosporium 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 droppings to livestock | When conditions are unusually favorable for disease, use 5-8 ozs/1000 sq ft (5-10 lbs/acre) and reduce intervals to 10-15 days |

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SEED TREATMENTS

LABEL TREATED SEED *Do not use for food, feed or oil purposes. This seed treated with 'Manzate' 200 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, Seedling blights | 1.3 to 2.0 | 2.7 to 4.2 |
| Corn | Damping-off, seed rot, seedling blight | 1.5 to 3.0 | 2.7 to 5.4 |
| Cotton Acid Delinted | Damping-off, Seedling blights | - | 3 |
| Cotton Reginned | Damping-off, Seedling blights | - | 6 |
| Flax | Seed decay, Seedling blights, Damping-off | 2.0 to 4.0 | 3.6 to 7.1 |
| Oats | Damping-off, Seedling blights, Seed decay, Smuts | 1.3 to 2.0 | 4.0 to 6.3 |
| Peanuts (shelled) | Damping-off, Seed rots, Seedling 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 during or after soaking in water |
| Rye | Bunt, Covered smut, Damping-off, Seed decay, Seedling blights | 1.3 to 2.0 | 2.3 to 3.6 |
| Safflower | Puccinia carthami (which causes foot and rot disease and storage rot disease) | | 2.0 |
| Sorghum | Covered smut, Damping-off, Seedling blights, Seed rots | 1.5 to 2.5 | 2.7 to 4.5 |
| Tomatoes | Damping-off, Seedling blights, Seed rots | | 3.0 |
| Wheat | Bunt, Covered smut, Damping-off, Seed decay, Seedling blights | 1.3 to 2.0 | 2.2 to 3.3 |

STORAGE AND DISPOSAL

STORAGE: Important—Never allow "Manzate" 200 to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of "Manzate" 200 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 TO BUYER: Purchase of this material does not constitute an offer under patents of countries outside of the United States.

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.

NET CONTENTS 6 LBS

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[Faint, illegible stamp or marking]