

352-706

9/28/2006

S# 794847
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SEP 28 2006

Lesley P. Czocho, PhD.
Senior Product Registration Manager
DuPont Crop Protection
P.O. Box 30
Newark, DE 19714

SUBJECT: DuPont Manzate Flowable Fungicide
EPA Reg No. 352-706
Your Submission Dated 6/30/2006

Dear Dr. Czocho:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following conditions are met::

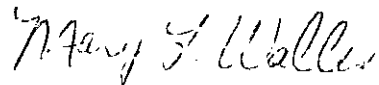
1. Remove the "empty" row on page 7 between "Tomato (West of the Mississippi River)" and "Watermelon".
2. Revise "Protective eyewear" to read "Goggles or faceshield" in the Precautionary Statements and the Agricultural Use Requirements box.
3. Revise the last sentence in the Non-Agricultural Use box to read "Do not enter or allow others to enter treated areas until sprays have dried."
4. In all places where the product name appears as "Manzate Flowable", revise the name to read "Dupont Manzate Flowable Fungicide" for consistency.
5. In the Warranty section, sixth paragraph, revise the first sentence to read "To the fullest extent permitted by law, Dupont or seller shall not be liable for any . . . of this product."
6. Submit one (1) copy of the final printed label before releasing the product for shipment.

The Agency acknowledges the primary brand name change to "Dupont Manzate Flowable Fungicide".

0-7-18

One copy of the label stamped "Accepted with comments" is enclosed for your records. If you have any questions, please contact Bob Comerlin by telephone at (703) 305-0598 or via email at comerlin.bob@epa.gov.

Sincerely,



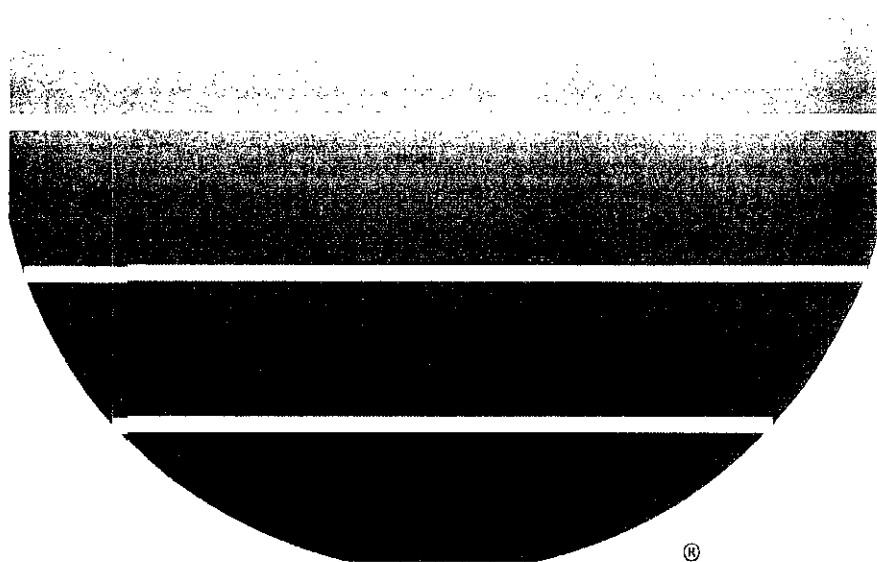
Mary Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505P)

Enclosure



DuPont™ Manzate® Flowable

fungicide



“..... A Growing Partnership With Nature”

SEP 28 2016



Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

352-706

DuPont™

Manzate® Flowable

fungicide

Flowable

Active Ingredients	By Weight
A coordination product of zinc ion and manganese ethylenebisdithiocarbamate in which the ingredients are	37.0%
Manganese**	7.4%
Zinc**	0.9%
Ethylenebisdithiocarbamate ion (C ₄ H ₆ N ₂ S ₄)	28.7%
Inert Ingredients	63.0%
TOTAL	100.0%

Contains 4.0 Pounds Active Ingredient Per Gallon

EPA Reg. No. 352-706

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use.**

PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation.

**PERSONAL PROTECTIVE EQUIPMENT
(PPE)**

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Mixers and Loaders must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS:

During aerial application, human flaggers must be in enclosed cabs.

When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Commercial seed treatments and professional applications to lawn grasses, golf courses, industrial (office park), municipal and residential lawns are not within the scope of the Worker Protection Standard.

Do not enter treated areas until sprays have dried.

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

DuPont™ MANZATE® Flowable, containing mancozeb, is recommended for use as a spray for the control of many important plant diseases.

APPLICATION INSTRUCTIONS

ASA SPRAY (Ground or Aerial Equipment) - Apply MANZATE® Flowable at the rate shown; use sufficient water to provide thorough coverage, use 20 to 100 gallons per acre for ground equipment and no less than 2 gallons per acre for aircraft. Add MANZATE® Flowable 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. A spreader-sticker spray adjuvant may be used with this product if needed; contact your local product distributor or DuPont representative for specific recommendations.

RESTRICTIONS

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.

CHEMIGATION

Apply MANZATE® Flowable Fungicide only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or nar d move irrigation systems. Do not apply MANZATE® Flowable through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform 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.
8. Good agitation is required in the injection tank.
9. In moving systems, apply specified dosage of DuPont™ MANZATE® Flowable as a continuous injection. In non-moving systems inject MANZATE® Flowable 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® Flowable 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 non-moving 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® Flowable is flushed from system.

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® Flowable as a continuous injection. In non-moving systems inject MANZATE® Flowable 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® Flowable 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 non-moving 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® Flowable is flushed from system.

CROP	DISEASES CONTROLLED	RATE OF DUPONT™ MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Apple	(See Pomefruit)			
Asparagus	Cercospora Leaf Spot, Rust	1.6	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 6.4 qts (6.4 lbs active) per acre per season.
Asparagus Crown (Planting Stock)	Crown Rot	0.8/100 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.
Banana (Including Plantain)	Sigatoka	1.6-2.4	Apply when leaves first appear and repeat every 14 to 21 days or as required. Use sufficient water to provide adequate coverage.	Do not apply more than 24 qts (24 lbs active) per acre per growing cycle. Minimum preharvest interval 0 days.
Barley, Oat, Rye, Wheat (Including Triticale)	Helminthosporium Leaf Spot, Leaf Rust, Septoria Glume Blotch, Septoria Leaf Spot, Tan Spot	1.6	Start application at onset of disease or when plants are in the tillering to jointing stage and repeat at 7- to 10-day intervals.	Do not make more than three applications during the season. Do not apply more than 4.8 qts (4.8 lbs active) per acre per crop. 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	3.2/100 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 or Processing; Popcorn; and Sweet Corn for Seed Production, including Hybrid Seed)	Common Rust, Helminthosporium Leaf Blight, Gray Leaf Spot	1.2	Use sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4- to 7-day intervals.	Do not apply within 7 days of harvest. Do not apply more than 18 qts (18 lbs active) per acre per crop east of the Mississippi and AR and LA. Do not apply more than 6 qts (6 lbs active) per acre per crop west of the Mississippi except AR and LA. Do not feed treated forage to livestock.
(Field and Field Corn for Hybrid Seed Production)				Do not apply within 40 days of harvest. Do not apply more than 12 qts (12 lbs active) per acre per crop. Do not feed treated forage to livestock.
Cotton (Southwest Only)	Rust	1-1.6	Begin when rust first appears in the area. Repeat at 0- to 14-day intervals.	Do not apply after bolls open. Do not apply more than 6.4 qts (6.4 lbs active) per acre per crop. Do not apply within 14 days of harvest. Do not feed treated forage to livestock. Do not feed gin trash to livestock. Do not graze livestock in treated areas.
Cranberry	Fruit Rot	2.4-4.8	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 14.4 qts (14.4 lbs active) per acre per season.
Cucumber	Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Stem Blight, Scab	1.6-2.4	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 19.2 qts (19.2 lbs active) per acre per crop.

CROP	DISEASES CONTROLLED	RATE OF DUPONT™ MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Fennel	Early Blight, Late Blight	1.6	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 12.8 qts (12.8 lbs active) per acre per crop. Do not graze livestock in treated areas.
Grape (East of the Rocky Mountains)	Black Rot, Bunch Rot, Deadarm, Downy Mildew	1.2-3.2	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 65 days of harvest. Do not apply more than 19.2 qts (19.2 lbs active) per acre per season.
Grape (West of the Rocky Mountains)	Black Rot, Bunch Rot, Deadarm, Downy Mildew	1.2-2	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 60 days of harvest except in CA where no application can be made after bloom. Do not apply more than 6 qts (6 lbs active) per acre per season.
Melon Cantaloupe, Casaba, Crenshaw, Honeydew, Watermelon	Alternaria Leaf Spot, Anthracnose, Downy Mildew, Gummy Stem Blight, Cercospora Leaf Spot	1.6-2.4	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® Flowable fungicide. Consult State Cooperative Extension Service Specialist prior to use.	Do not apply within 5 days of harvest. Do not apply more than 19.2 qts (19.2 lbs active) per acre per season.
Oat	(See Barley)			
Onion (Dry Bulb), Garlic, Shallot	Botrytis Leaf Blight, Downy Mildew, Neck Rot, Purple Blotch	2.4	Follow a protective spray schedule starting 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. Do not apply more than 24 qts (24 lbs active) per acre per crop.
	Smut	2.4	Apply 2.4 qts per acre as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of water per acre.	Do not use more than 2.4 qts active per acre (29,000 linear feet of furrow) with an 18 inch row spacing.
Papaya	Anthracnose (Colletotricum), Phytophthora Fruit Rot, Black Spot (Cercospora)	1.6-2.0 (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 28 qts (28 lbs active) per acre per crop. Minimum pre-harvest interval 0 days.
Peanut	Ascochyta Web Blotch, Cercospora Leaf Spot, Rust	0.8-1.6	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 12.8 qts (12.8 lbs active) per acre per crop. Do not feed treated vines to livestock.

CROP	DISEASES CONTROLLED	RATE OF DUPONT TM MANZATE ⁶⁰ FLOWABLE PFR APPLICATION QTS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Pear	(See Pomefruit)			
Pineapple (Seed-Piece Treatment Only)	Phytophthora Heart Rot	2 (610) 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.
Pome Fruit Apple, Pear, Crabapple, Quince	Rusts, Scab, Fabrea Leaf Spot	4.8 Maximum per acre use rate based on thorough coverage dilute sprays. Use 50 gal minimum per acre. Consult State Extension Service if necessary to adjust for variable tree size.	Pre-Bloom/Bloom Use: 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/Bloom" or "Extended Application" schedule. DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES	Do not apply more than 4.8 qts (4.8 lbs active) per acre per application. Do not apply after bloom. Do not apply more than 19.2 qts (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.
		2.4 Maximum per acre use rate based on thorough coverage dilute sprays. Use 50 gal minimum per acre. Consult State Extension Service if necessary to adjust for variable tree size.	Extended Application Schedule or for Use in Tank Mixtures: For implementation of IPM programs, applications based on tree-row volume, or for use as a resistance management tool; begin application 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/Bloom" or "Extended Application" schedule. DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES	Do not apply more than 2.4 qts (2.4 lbs active) per acre per application. Do not apply within 77 days of harvest. Do not apply more than 16.8 qts (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.
Potato	Early Blight, Late Blight, Black Dot Disease Suppression: Botrytis	0.4-1.6	Begin applications when plants are 4- to 6 inches high by applying 1 qt (1 lb active) per acre. As the vines increase in size, apply 1 to 1.6 qts per acre at intervals of 5- to 10-days or 0.4 qt per acre at 5 to 5 day intervals.	Do not apply more than 11.2 qts (11.2 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.
Potato (Seedpiece Treatment)	Fusarium Decay, Seedborne Common Scab	1 per 50 gal	Dip whole or cut potato tubers in 1 qt MANZATE ⁶⁰ Flowable 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 feed or feed purposes.
Squash (Summer Squash, Including Edible Gourd)	Downy Mildew	1.0-2.4	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 57 days of harvest. Do not apply more than 19.2 qts (19.2 lbs active) per acre per crop.
Sugar Beet	Cercospora Leaf Spot	1.2-1.6	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 11.2 qts (11.2 lbs active) per acre per crop. Do not feed treated sugar beet tops to livestock.

CROP	DISEASES CONTROLLED	RATE OF DUPONT™ MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Tomato (East of the Mississippi River)	Anthracnose, Early Blight, Gray Leaf Spot, Late Blight, Leaf Mold, Septoria Leaf Spot	0.6-1.2	Start application when seedlings emerge or transplants are set. Repeat at 3- to 7-day intervals throughout the season.	Do not apply within 5 days of harvest. Do not apply more than 16.8 qts (16.8 lbs active) per acre per crop.
		1.2-2.4	Start application when seedlings emerge or transplants are set. Repeat at 7- to 10-day intervals throughout the season.	
	Bacterial Speck and Spot	1.2-2.4	Start application when seedlings emerge or transplants are set. Repeat at 7- to 10-day intervals throughout the season.	
Tomato (West of the Mississippi River)	Anthracnose, Early Blight, Gray Leaf Spot, Late Blight, Leaf Mold, Septoria Leaf Spot	0.6-0.8	Start application when seedlings emerge or transplants are set. Repeat at 3- to 7-day intervals throughout the season.	Do not apply within 5 days of harvest. Do not apply more than 6.4 qts (6.4 lbs active) per acre per crop.
		1.2-1.6	Start application when seedlings emerge or transplants are set. Repeat at 7- to 10-day intervals throughout the season.	
	Bacterial Speck and Spot	1.2-1.6	Start application when seedlings emerge or transplants are set. Repeat at 7- to 10-day intervals throughout the season.	
Watermelon	(See Melon)			
Wheat (Including Triticale)	(See Barley)			

FLOWERS, FOLIAGE PLANTS, AND ORNAMENTALS

**NOT INTENDED FOR USE ON FRUIT TREES BY HOMEOWNERS.
TREATED PLANTS MUST NOT BE USED FOR FOOD OR FEED PURPOSES.**

Plant sensitivities to DuPont™ MANZATE® Flowable have been found to be acceptable in specific genera and species listed on this label, however, phototoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test each one for sensitivity to MANZATE® Flowable. Neither the manufacturer or seller has determined whether or not MANZATE® Flowable can be safely used on ornamental or nursery plants not listed on this label. The user should determine if MANZATE® Flowable can be used safely prior to commercial use. In a small area, apply the recommended 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 MANZATE® Flowable in commercial greenhouses and nurseries for control of fungal diseases of flowers, foliage and ornamentals.

Aerial Application: For aerial applications made to field-planted ornamentals, apply 0.8 to 1.6 quarts per acre; a minimum rate of 5 gals of spray per acre should be used during aerial applications.

Application of Dilute Sprays: Apply as thorough coverage spray using using 0.8 quarts to 1.6 quarts per acre (0.8 to 1.6 lbs active ingredient) per 100 gals of water or per acre (see table below). Begin application at first sign of disease and repeat at 7- to 10-day intervals or as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist. MANZATE® Flowable 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.

Label Use Rate quarts per acre or quarts per 100 gals	Fluid ounces (fl. oz.) of MANZATE® Flowable required to make the following spray volume:			
	10 gal	5 gal	2 gal	1 gal
0.8	2.6	1.3	0.5	0.3
1.0	3.2	1.6	0.6	0.3
1.6	5.1	2.6	1.0	0.5

MANZATE® Flowable is recommended for use on certain flower, foliage and ornamental plants listed in the table below for control of the following diseases and pathogens:

PLANT	PATHOGEN CONTROLLED:
Abutilon	Alternaria, Cercospora, Cladosporium, Colletotrichum, Puccinia
African violet	Alternaria, Botrytis
Ageratum	Alternaria, Puccinia, Rhizoctonia, Sclerotium
Aglaonema	Alternaria
Almond, ornamental	Botrytis, Cladosporium, Coryneum, Gloeosporium, Monilinia
Alyssum	Microsphaera alni
Andromeda	Exobasidium, Rhytisma, Venturia
Anthurium	Colletotrichum, Gloeosporium
Apple	Alternaria, Cephalosporium, Colletotrichum, Coryneum, Elsinoe, Fusarium, Gloeosporium, Gymnosporangium, Helminthosporium, Leptosphaeria, Monilinia, Monochaetia, Mycosphaerella, Pestalotia, Venturia
Arborvitae	Alternaria, Botrytis, Cercospora, Coryneum, Lophodermium, Mycosphaerella, Pestalotia
Ash	Cercospora, Cyindrosporium, Gloeosporium, Puccinia, Rhizoctonia, Sphaeropsis
Ash, Mountain	Gymnosporangium
Aster	Alternaria, Ascochyta, Botrytis, Colletotrichum, Fusarium, Phomopsis, Phyllosticta, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces
Aucuba japonica	Alternaria, Cercospora, Gloeosporium, Phomopsis, Phyllosticta
Azalca	Alternaria, Botrytis, Cladosporium, Colletotrichum, Cylindrocladium, Ovulinia
Baby's Breath	Botrytis, Rhizoctonia
Basswood	Cercospora, Phyllosticta
Begonia	Botrytis, Cercospora, Gloeosporium, Rhizoctonia

Birch	Cylindrosporium, Gloeosporium, Glomerella, Melampsorium, Taphrina
Bougainvillea	Colletotrichum
Boxwood	Fusarium, Volutella
Buckeye	Cercospora, Glomerella, Guignardia, Monochaetia, Phyllosticta, Septoria, Taphrina
Buffalo berry	Cylindrosporium, Puccinia, Rhizoctonia, Septoria
Catalpa	Alternaria, Cercospora, Gloeosporium, Phomopsis, Rhizoctonia
Camellia	Botrytis, Cercospora, Elsinoe, Exobasidium, Glomerella, Pestalotia, Phomopsis, Phyllosticta
Carnation	Alternaria, Botrytis, Cladosporium, Colletotrichum, Fusarium, Helminthosporium, Septoria, Stemphylium, Uromyces
Cedar	Lophodermium, Gymnosporangium
Cherry, ornamental	Alternaria, Cercospora, Cladosporium, Coccomyces, Coryneum, Fusicladium, Monilinia, Phomopsis, Phyllosticta, Taphrina
Chinese evergreen	Colletotrichum, Gloeosporium
Christmas cactus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phomopsis
Chrysanthemum	Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Phyllosticta, Septoria, Stemphylium
Cockscomb (Celosia)	Alternaria, Cercospora
Coleus	Alternaria, Botrytis, Phyllosticta
Columbine	Ascochyta, Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria
Coryline	Cercospora
Cotoncaster	Cercospora, Phyllosticta, Venturia
Crabapple	Gymnosporangium, Marssonina, Phyllosticta, Septoria, Venturia
Crape myrtle	Cercospora, Phomopsis, Phyllosticta
Croton	Gloeosporium
Cuphea (Mexican heather)	Gloeosporium, Rhizoctonia
Cyclamen	Botrytis, Cladosporium, Fusarium, Glomerella, Phyllosticta, Ramularia
Cypress	Coryneum, Fusarium, Gymnosporangium, Lophodermium, Monochaetia, Pestalotia, Phomopsis
Dahlia	Alternaria, Botrytis, Fusarium, Rhizoctonia
Daisy	Botrytis, Cercospora, Whetzelia
Daisy, Shasta	Cylindrosporium, Septoria, Fusarium
Daisy, Transvall	Alternaria, Botrytis, Gloeosporium
Daylily	Alternaria, Botrytis, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Puccinia
Delphinium	Ascochyta, Botrytis, Cercospora, Diaporthe, Fusarium, Phyllosticta, Puccinia, Ramularia, Septoria, Volutella
Dieffenbachia	Cephalosporium, Colletotrichum, Gloeosporium, Glomerella, Lentosphaeria
Dogwood	Ascochyta, Botrytis, Cercospora, Colletotrichum, Elsinoe, Phyllosticta, Septoria
Dracaena	Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta
Dusty Miller	Fusarium, Puccinia
Elm	Botryosphaeria, Cephalosporium, Cercospora, Coryneum, Cylindrosporium, Fusarium, Gloeosporium, Monochaetia, Mycosphaerella, Phomopsis, Phyllosticta, Rhizoctonia, Sphaeropsis, Taphrina
Euonymus	Cercospora, Colletotrichum, Gloeosporium, Marssonina, Ramularia, Septoria, Whetzelinia
Fatsia	Alternaria, Cercospora, Colletotrichum, Phyllosticta
Fern	Botrytis, Cercospora, Curvularia, Cylindrosporium, Glomerella, Phyllosticta, Taphrina
Ficus	Alternaria, Ascochyta, Cephalosporium, Cercospora, Cladosporium, Colletotrichum, Fusarium, Gloeosporium, Glomerella, Mycosphaerella, Phomopsis, Stemphylium

Fir (Abies)	Cephalosporium, Lophodermium, Melampsora, Phomopsis, Sphaeropsis
Fir, Douglas	Phaeocryptopus
Fir, Frasier	Phaeocryptopus
Firethorn	Fusarium, Fusicladium, Rhizoctonia
Fittonia	Rhizoctonia
Four-o'clock	Cercospora, Rhizoctonia
Fuchsia	Botrytis, Phomopsis, Septoria
Garden Balsam	Alternaria, Botrytis, Cercospora
Gardenia	Alternaria, Botrytis, Diaporthe, Mycosphaerella, Pestalotia, Phomopsis, Phyllosticta, Rhizoctonia
Geranium	Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces, Venturia
Gladiolus*	Alternaria, Botrytis, Cladosporium, Curvularia, Rhizoctonia, Septoria, Stemphylium
Gloxinia	Botrytis, Colletotrichum
Gold Dust Tree	Gloeosporium, Glomerella, Pestalotia, Phyllosticta
Gomphrena	Cercospora
Gypsophila	Botrytis, Rhizoctonia
Hawthorn	Cercospora, Cylindrosporium, Gloeosporium, Gymnosporangium, Monilinia, Mycosphaerella, Phyllosticta, Septoria, Venturia
Hemlock, Eastern (Tsuga)	Botrytis, Cylindrosporium, Melampsora, Rhizoctonia
Hibiscus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta
Hickory	Cercospora, Cladosporium, Elsinoe, Fusarium, Gnomonia, Mycosphaerella, Pestalotia, Phyllosticta, Septoria
Holly	Phyllosticta
Hollyhock	Alternaria, Ascochyta, Cercospora, Colletotrichum, Puccinia, Septoria
Honeysuckle	Alternaria, Cercospora, Gloeosporium, Herpobasidium, Phyllosticta
Horse Chestnut	See Buckeye
Hydrangea	Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Rhizoctonia, Septoria
Impatiens	Cercospora, Phyllosticta, Rhizoctonia, Septoria
Indian Hawthorn	Entomosporium
Iris	Ascochyta, Botrytis, Cladosporium, Fusarium, Kabatiella, Phyllosticta, Puccinia, Rhizoctonia
Ivy	Cladosporium, Colletotrichum, Glomerella, Phyllosticta, Ramularia, Rhizoctonia, Sphaeropsis
Jade plant	Gloeosporium, Phomopsis
Juniper	Cercospora, Coryneum, Gymnosporangium, Lophodermium, Pestalotia, Phomopsis, Stigmina
Kalanchoe	Cercospora, Stemphylium
Larkspur	See Delphinium
Laurel, Cherry	Alternaria, Cercospora, Coecomycetes, Monilinia, Phyllosticta, Septoria
Laurel, Mountain	Cercospora, Mycosphaerella, Pestalotia, Phomopsis, Rhytisma, Septoria
Lavender, Cotton	Septoria
Lilac	Botrytis, Cercospora, Cladosporium, Cylindrocladium, Gloeosporium
Lily	Botrytis, Cercospora, Cladosporium, Colletotrichum, Fusarium, Puccinia, Ramularia, Rhizoctonia
Lirope	Alternaria, Cercospora, Colletotrichum, Leptothyrium
Lobelia	Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria
Loquat	Colletotrichum, Fusicladium, Pestalotia, Phyllosticta, Septoria
Magnolia	Alternaria, Cercospora, Cladosporium, Colletotrichum, Glomerella, Rhizoctonia

Mahonia	Cercospora, Cythroccladium, Gloeosporium, Leptosphaeria, Phomopsis, Phyllosticta, Puccinia
Maple	Alternaria, Cercospora, Ciborinia, Fusarium, Marssonina, Monochaetia, Phomopsis, Phyllosticta, Rhizoctonia, Rhytisma, Septoria, Sphaeropsis, Taphrina, Venturia
Myrtle	Cercospora, Glomerella, Pestalotia
Narcissus	Botrytis, Sclerotinia
Nasturtium	Botrytis, Cercospora, Puccinia
Nannyberry	Botrytis, Cercospora, Cladosporium, Helminthosporium, Monochaetia, Phomopsis, Phyllosticta, Ramularia
Nephathytis	Cephalosporium
Nicotiana	Alternaria
Nierembergia	Botrytis
Oak	Cephalosporium, Cercospora, Cladosporium, Cronartium, Elsinoe, Fusarium, Gloeosporium, Gnomonia, Marssonina, Phyllosticta, Septoria, Taphrina, Venturia
Orchid	Cercospora, Fusicladium, Mycosphaerella, Phyllosticta, Puccinia, Septoria
Osmanthus	Alternaria, Cercospora, Colletotrichum, Phyllosticta
Pachysandra	Cronartium, Gloeosporium, Phyllosticta, Septoria, Sphaeropsis, Volutella
Palm, Areca	Alternaria, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Septoria
Palm, Arenga	Cercospora, Colletotrichum, Cythroccladium, Pestalotia, Phoma, Stigmata
Palm, Cabbage	Fusarium, Gloeosporium, Pestalotia, Stigmata
Palm, Coconut	Pestalotia
Palm, Date	Alternaria, Fusarium, Helminthosporium, Pestalotia
Palm, King	Alternaria, Fusarium, Helminthosporium, Pestalotia, Phomopsis
Palm, Phoenix	Alternaria, Cercospora, Fusarium, Gloeosporium, Pestalotia, Phomopsis, Stigmata
Palm, Queen	Glomerella, Septoria
Palm, Royal	Alternaria, Cercospora, Colletotrichum, Helminthosporium
Palm, Washington	Cercospora, Colletotrichum, Cythroccladium, Pestalotia, Phoma, Stigmata
Pansy	Alternaria, Botrytis, Cercospora, Colletotrichum, Peronospora, Phyllosticta, Ramularia, Rhizoctonia
Peach	Cercospora, Cladosporium, Coryneum, Fusarium, Glomerella, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Taphrina
Pear	Alternaria, Botrytis, Cercospora, Cladosporium, Coryneum, Elsinoe, Fusarium, Glomerella, Gymnosporangium, Helminthosporium, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Venturia
Peony	Alternaria, Botrytis, Cercospora, Cladosporium, Gloeosporium, Phyllosticta, Septoria
Peperomia	Colletotrichum, Gloeosporium, Rhizoctonia
Periwinkle	Alternaria, Botrytis, Cladosporium, Colletotrichum, Phomopsis, Phyllosticta, Puccinia, Rhizoctonia, Septoria
Petunia	Cercospora, Puccinia, Rhizoctonia, Stemphylium
Philodendron	Gloeosporium, Colletotrichum
Phlox	Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Puccinia, Ramularia, Septoria, Stemphylium, Volutella
Photinia	Cercospora, Gloeosporium, Gymnosporangium, Lophodermium, Pestalotia, Phyllosticta, Septoria
Pieris	Alternaria, Pestalotia, Phyllosticta, Rhytisma
Pilea	Alternaria, Botrytis, Cercospora, Colletotrichum, Helminthosporium, Phyllosticta
Pine, Norfolk Island	Botrytis, Colletotrichum, Cronartium, Cythroccladium, Fusarium, Lophodermium, Pestalotia, Rhizoctonia, Septoria, Sirococcus
Pine	Alternaria, Botrytis, Cronartium, Fusarium, Lophodermium, Monochaetia, Rhizoctonia, Septoria, Sirococcus

Pittosporium	Alternaria, Cercospora, Gnomonia, Mycosphaerella, Phyllosticta, Rhizoctonia, Septoria
Plane tree	Cercospora, Gnomonia, Phyllosticta, Septoria
Plum, ornamental	Botrytis, Cercospora, Cladosporium, Coeomyces, Coryneum, Monilinia, Phyllosticta, Taphrina
Poinsettia ^{***}	Botrytis, Cercospora, Fusarium, Uromyces
Poplar	Cercospora, Ciborinia, Colletotrichum, Cylindrocladium, Fusarium, Marssonina, Melampsora, Mycosphaerella, Phyllosticta, Septoria, Stigmata, Taphrina, Venturia
Portulaca	Rhizoctonia
Pothos	Rhizoctonia
Prayer plant	Alternaria, Drechslera, Glomerella, Puccinia
Primrose	Alternaria, Botrytis, Colletotrichum, Mycosphaerella, Puccinia, Ramularia, Uromyces
Privet	Cercospora, Glomerella, Phomopsis, Phyllosticta, Ramularia
Protea	Botrytis
Pyracantha	Botrytis, Cercospora, Diplodia, Phomopsis, Phyllosticta, Sphaeropsis
Quince, flowering	Cercospora, Fabraea, Gymnosporangium, Septobasidium
Red cedar, western (Thuja)	Keithia (or Didymascella)
Red tip	See Photinia
Redwood, Sequoia	Botrytis, Cercospora, Mycosphaerella, Pestalotia, Phomopsis
Rhododendron	Alternaria, Cercospora, Coryneum, Gloeosporium, Glomerella, Guignardia, Lophodermium, Mycosphaerella, Pestalotia, Phomopsis, Rhizoctonia, Septoria, Venturia
Rose	Alternaria, Bipolaris, Botryosphaeria, Botrytis, Cercospora, Cladosporium, Cylindrocladium, Diplocarpon, Elsinoe, Gloeosporium, Helminthosporium, Leptosphaeria, Monochaetia, Mycosphaerella, Peronospora, Phyllosticta, Septoria
Rosemary	Rhizoctonia
Russian olive	Cercospora, Colletotrichum
Sage	Cercospora, Peronospora, Puccinia, Ramularia, Rhizoctonia
Salvia	Cercospora, Puccinia
Santolina	Botrytis
Senecio	Cercospora, Gloeosporium, Phyllosticta, Puccinia, Ramularia, Septoria
Schefflera	Alternaria
Snakeplant	Fusarium, Gloeosporium
Snapdragon	Alternaria, Bipolaris, Botrytis, Cercospora, Colletotrichum, Drechslera, Fusarium, Helminthosporium, Peronospora, Phyllosticta, Puccinia, Rhizoctonia
Spathiphyllum	Alternaria
Spindletree	See Euonymus
Spirca	Cylindrosporium
Spruce	Ascochyta, Botrytis, Cladosporium, Lophodermium, Rhizoctonia
Spurge	Cercospora, Melampsora, Puccinia
Statice	Alternaria, Ascochyta, Botrytis, Cercospora, Colletotrichum, Rhizoctonia, Uromyces
Strawflower	Fusarium
Sumac	Cercospora, Cladosporium, Fusarium, Phyllosticta, Septoria, Taphrina
Sunflower, ornamental	Alternaria, Puccinia
Syngonium	Cephalosporium, Erwinia, Fusarium
Tulip	Botrytis
Venus flytrap	Colletotrichum
Verbena	Alternaria, Ascochyta, Botrytis, Cercospora, Phyllosticta, Puccinia, Rhizoctonia, Septoria, Stemphylium

Viburnum	Botrytis, Cercospora, Cladosporium, Helminthosporium, Monochaetia, Phomopsis, Ramularia
Walnut	Cercospora, Cladosporium, Cythrodcladium, Cylindrosporium, Guomonia
Willow	Aseochyta, Cercospora, Ciborinia, Cylindrosporium, Fusicladium, Gloeosporium, Marssonina, Melampsora, Phomopsis, Phyllosticta, Ramularia, Rhytisma, Septoria, Taphrina, Venturia
Wisteria	Alternaria, Cercospora, Colletotrichum, Gloeosporium, Pestalotia
Yucca	Cercospora, Cylindrosporium, Gloeosporium, Puccinia
Zebra plant	Alternaria, Cercospora, Colletotrichum
Zinnia	Alternaria, Botrytis, Cercospora, Rhizoetonia

*Do not exceed 0.6 quarts per 100 gallons on flower spikes.

**Do not exceed 1.2 quarts per 100 gallons.

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

GRASSES: SODFARMS TURF AND LAWN USE

Applications must be done by a professional applicator. Not for homeowner use.

CROP	DISEASE/ PEST	APPLICATION RATE	APPLICATION TIMING/ INTERVAL	COMMENTS
Sod farm (WPS use): see Agricultural Use Requirements Box	Algae	10 fl. oz./1000 sq. ft.	Begin when algae begins to appear/7 days.	Do not use on grasses grown for seed.
	Copper Spot, Fusarium Blight, (<i>F. roseum</i>), Red Thread, Slime Molds,	7-10 fl. oz./1000 sq. ft.	Begin when grass greens up in spring/7-14 days.	Do not use on grasses intended for grazing, such as range or pasture grasses.
10-14 fl. oz./1000 sq. ft.		Use during favorable disease conditions/7 days.	Do not graze treated areas or feed clippings to livestock.	
Lawn Grasses (Non-WPS uses): see Non-Agricultural Use Requirements Box Examples include golf courses, professional applications to industrial (office park), municipal, and residential lawns	Gray Leaf Spot (<i>Pyricularia grisea</i>)	9-14 fl. oz./1000 sq. ft.	Begin at first sign of disease; apply at 5 day intervals or more often during favorable disease conditions.	
	Dollar Spot (<i>Sclerotinia</i>)	10-14 fl. oz./1000 sq. ft.	Begin when grass greens up in spring/7-14 days.	
		14 fl. oz./1000 sq. ft.	Use during favorable disease conditions/7 days.	
	Pink (Fusarium) Snow Mold	10-14 fl. oz./1000 sq. ft.	During winter / 14-42 days. Apply before first snowfall.	
	Leaf Spot (<i>Helminthosporium sp.</i>) Rhizoctonia Brown Patch	5-7 fl. oz./1000 sq. ft.	Begin when disease appears.	
		10-14 fl. oz./1000 sq. ft.	Use during favorable disease conditions/3-5 days	
	Pythium Blight	14 fl. oz./1000 sq. ft.	Begin at first sign of disease/5 days or more often during favorable disease conditions.	
	Leaf Rust, Stem Rust, Stripe Rust	5-7 fl. oz./1000 sq. ft.	Begin when disease first appears/7-10 days.	

*Except CA

SEED TREATMENTS

For Commercial Seed Treatment Only

A single application for commercial seed treatment may be made on crops which have registered EBDC seed treatment uses.

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

For commercial seed treatments, seeds should be clean and well-cured prior to treatment. Apply to dry seed with conventional slurry or mist seed treating equipment. Refer to the Non-Agricultural Use Requirements box for commercial treatments.

LABEL TREATED SEED: "Do not use for food, feed or oil purposes. This seed treated with DuPont™ MANZATE® Flowable fungicide."

CROP	DISEASES	SEED TREATMENT RATE- APPLY AS A SLURRY			
		FLUID OZ./BU.		FLUID OZS./100 LBS.	
		CA	All States Except CA	CA	All states except CA
Barley	Bunt, Covered Smut, Damping-Off, Fake Loose Smut, Seed Decay, Seedling Blights	2.2	2-3.2	4.5	4.3-6.7
Corn	Damping-Off, Seed Rot, Seedling Blights	2.5	2.4-4.8	4.5	4.3-8.6
Cotton Acid Delinted	Damping-Off, Seedling Blights	Do Not Use	Do Not Use	5.1	4.8-5.1
Cotton Reginned	Damping-Off, Seedling Blights	Do Not Use	Do Not Use	10.1	9.5-10.1
Flax	Seed Decay, Seedling Blights, Damping-Off	3.4	3.2-6.4	6.1	5.7-11.3
Oat	Damping-Off, Seedling Blights, Seed Decay, Smuts	2.2	2-3.2	6.7	6.4-10
Peanut (Shelled)	Damping-Off, Seed Rots, Seedling Blights	Do Not Use	3.2-6.4	Do Not Use	12.8-25.6
Rice	Achyla, Other Soil and Seedborne Fungi Causing Seed Rot and Reduced Seedling Vigor	Do Not Use	Do Not Use	3.4-6.7 (of dry rice seed) (2.1-4.2 qts/ton of seed) Apply before, during or after soaking in water.	
Rye	Bunt, Covered Smut, Damping-Off, Seed Decay, Seedling Blights	2.2	2-3.2	4.0	3.7-5.7
Safflower	<i>Puccinia carthami</i> (Which Causes Foot-and-Rot Disease and Foliage Rust Disease)	Do Not Use	Do Not Use	3.4	3.2-3.4
Sorghum	Covered Kernel Smut, Damping-Off, Seedling Blights, Seed Rots	2.5	2.4-4	5.1	4.3-7.2
Tomato	Damping-Off, Seedling Blights, Seed Rots	Do Not Use	Do Not Use	13.5	12.8-13.5
Wheat (including Triticale)	Bunt, Covered Smut, Damping-Off, Seed Decay, Seedling Blights	2.2	2-3.2	3.7	3.5-5.2

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