

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 16, 2014

Sherry B. HutchesonRegulatory Affairs ManagerUnited Phosphorus, Inc.630 Freedom Business Center, Suite 402King of Prussia, PA 19406

Subject: PRIA Label Amendment – amendment to reduce RTI for walnuts to 7 days; add supplemental label for walnuts Product Name: Manzate Flowable Fungicide EPA Registration Number: 70506-236 Application Date: 4/25/14; resubmission on 12/4/14 Decision Number: 490549

Dear Ms. Hutcheson:

The amended label and supplemental label referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable. You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. The master labeling supersedes all previously accepted master labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Heather Garvie by phone at 703-308-0034, or via email at garvie.heather@epa.gov.

Sincerely, $\sqrt{2}$

Hope Johnson, Product Manager 21 Fungicide Branch Registration Division (7505P) Office of Pesticide Programs

Attachment: Stamped master label and supplemental label "Approved"; EFED assessment DP#420630, dated 11/19/14; HED assessment DP# 422786, dated 9/12/14



Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 20000

70506-236

Manzate Flowable Fungicide Clean – Label Amendment EPA followup December 4, 2014

Manzate[®] Flowable

Active Ingredients	By W	/eight
A coordination product of zinc ion and manganese ethylenebisdithi in which the ingredients are	ocarbamate 3	37.0%
Manganese++	7.4%	
Zinc++	0.9%	
Ethylenebisdithiocarbamate ion (C ₄ H ₆ N ₂ S ₄)		
Other Ingredients	<u>6</u>	3.0%
TOTAL		0.0%
Contains 4.0 Pounds Active Ingredient Per Gallon		

EPA Reg. No. 70506-236

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 to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the Rocky Mountain Poison Center at 1-866-673-6671 for emergency medical treatment information. See Label for Additional Precautions and Directions for Use.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

See Inside for additional Precautionary Statements and complete Directions For Use.

Net Contents:
2.5 Gallons
30 Gallons
270 Gallons

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071

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.

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
- Goggles or faceshield

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
- Goggles or faceshield
- 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
- Goggles or faceshield

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), and municipal lawns are not within the scope of the Worker Protection Standard.

Do not enter or allow others to enter treated areas until sprays have dried.

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

MANZATE® Flowable, containing mancozeb, may be used as a spray for the control of many important plant diseases.

APPLICATION INSTRUCTIONS

AS A 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 United Phosphorus, Inc. 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 hand 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.
- In moving systems, apply specified dosage of MANZATE® Flowable as a continuous injection. In nonmoving 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 nonmoving 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 MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	DIRECTIONS FOR USE	RESTRICTIONS/COMMENTS
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 (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 product (24 lbs active) per acre per growing cycle. Minimum preharvest interval 0 days.
Barley, Oat, Rye, Wheat (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 product (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	Use fresh dipping suspension after treating 4 to 5 batches of figs.

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		RATE OF MANZATE® FLOWABLE PER		
CROP	DISEASES CONTROLLED	APPLICATION QTS/ACRE	DIRECTIONS FOR USE	RESTRICTIONS/COMMENTS
			at least 15 minutes. Drain before placement in trees.	
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 product (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 product (12 lbs active) per acre per crop. Do not feed treated forage to livestock.
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 product (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 product (19.2 lbs active) per acre per crop.
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 product (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 66 days of harvest. Do not apply more than 19.2 qts product (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 66 days of harvest except in CA where no application can be made after bloom. Do not apply more than 6 qts product (6 lbs active) per acre per season.
Lettuce (Head and Leaf)	Downy Mildew	1.2-1.6 qt/A	Begin applications when disease appears and reapply on a 7 to 10 day treatment schedule.	In Califonria: do not apply more than 6.4 qts of product (6.4 lbs ai) per acre per year and do not apply within 14 days of harvest of head or leaft lettuce.
				In states other than Califonria: do not apply more than 9.6 qts. Product (9.6 lbs ai) per acre per year and do not apply within 10 days of harvest of head lettuce or within 14 days of harvest of leaf lettuce.
				For all states mimimuum retreatment

CROP	DISEASES CONTROLLED	RATE OF MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	DIRECTIONS FOR USE	RESTRICTIONS/COMMENTS
				interval is 7 days. Do not apply this product with a U-boom device.
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 product (19.2 lbs active) per acre per season.
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 Ibs active) per acre per crop. Do not feed treated vines to livestock.
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 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/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.
Pepper	Anthracnose Early Blight Phomopsis Blight or Fruit Rot	West of the Mississippi 1.2-1.6 qt/A East of the Mississippi:	Begin application when disease appears and reapply on a 7 to a 10 day spray schedule.	West of the Mississippi: do not apply more than 9.6 qt. product (9.6 lbs ai) per acre per year. East of the Mississippi: Do not apply more than 14.4 qt. product (14.4 lbs ai)

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		1.2-2.4 qt/A		per acre per year. Do not apply this product with a U- boom device. Minimum retaretemetn interval is 7 days. Minimimum preharvest interval is 7 days. Do not apply within 7 days of harvest.
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 3 to 5 day intervals.	Do not apply more than 11.2 qts product (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® 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 food or feed purposes.
Squash (Summer Squash, Including Edible Gourd)	Downy Mildew	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 product (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 product (11.2 lbs active) per acre per crop. Do not feed treated sugar beet tops to livestock.
Tomato (East of the Mississippi River)	Anthracnose, Early Blight, Gray Leaf Spot, Late Blight,	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 product (16.8 lbs active) per acre per crop.
	Leaf Mold, Septoria Leaf Spot	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.	Do not apply within 5 days of harvest. Do not apply more than 16.8 qts product (16.8 lbs active) per acre per crop. Use a full rate of a fixed copper fungicide in a tank mix combination with a half to full rate of MANZATE® Flowable. Follow the application interval recommended on the copper fungicide label.
Tomato (West of the Mississippi River)	Anthracnose, Early Blight, Gray Leaf Spot, Late Blight,	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 product (6.4 lbs active) per acre per crop.
	Leaf Mold, Septoria Leaf Spot	1.2-1.6	Start application when seedlings	

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			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.	Do not apply within 5 days of harvest. Do not apply more than 6.4 qts product (6.4 lbs active) per acre per crop. Use a full rate of a fixed copper fungicide in a tank mix combination with a half to full rate of MANZATE® Flowable. Follow the application interval recommended on the copper fungicide label.
Walnuts	Walnut Blight (Xanthomonas campestris pv. Juglandis)	1.8 (1.8 lbs ai)	Apply by ground in a minimum of 100 gallons water per acre, or by air in a minimum of 10 gallons water per acre. Begin applications at early pre-bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage, or as needed if frequent rainfall occurs. The reapplication interval is 7-10 days.	Do not apply through any irrigation system. Do not make more than 10 applications per season. Do not apply more than 18 quarts product (18 lbs ai) per acre per sue season. This product must be tank mixed with a fixed copper product (such as Curpofix Ultra 40 Disperss, EPA Reg. No. 70506-201) which is registered for use on walnuts. Preharvest interval: Do not applywithin 75 days before harvest.

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 MANZATE® Flowable fungicide."

When opening this bag or loading/pouring the treated seed/seedpieces, wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves, and a particular respirator with a N, R, or P, NIOSH approval prefix TC 84-A.

CROP	DISEASES	SEED TREATMENT RATE- APPLY AS A SLURRY FLUID OZ./BU.		FLUID OZS./100 LBS.	
		CA	All States Except CA	СА	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	Puccinia carthami (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

FLOWERS, FOLIAGE PLANTS, AND ORNAMENTALS INTENDED FOR USE ON FRUIT TREES ONLY BY PROFESSIONAL APPLICATORS TREATED PLANTS MUST NOT BE USED FOR FOOD OR FEED PURPOSES.

Plant sensitivities to 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. Do not make more than 20 applications per year.

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 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 specified rate and shorter intervals during periods of excessive wetness and rapid plant growth.

Label Use Rate	Fluid ounces (fl. oz.) of MANZATE Flowable required to make the following spray volume:			
quarts per acre or quarts per 100 gals	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, Cylindrosporium, 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
Azalea	Alternaria, Botrytis, Cladosporium, Colletotrichum, Cylindrocladium, Ovulinia
Baby's Breath	Botrytis, Rhizoctonia
Basswood	Cercospora, Phyllosticta
Begonia	Botrytis, Cercospora, Gloeosporium, Rhizoctonia
Birch	Cylindrosporium, Gloeosporium, Glomerella, Melampsoridium, Taphrina
Bougainvillea	Colletotrichum
Boxwood	Fusarium, Volutella
Buckeye	Cercospora, Glomerella, Guignardia, Monchaetia, Phyllosticta, Septoria, Taphrina
Buffalo berry	Cylindrosporium, Puccinia, Rhizoctonia, Septoria
Catalpa	Alternaria, Cercospora, Gloeosporium, Phomopsis, Rhizoctonia

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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
Cotoneaster	Cercospora, Phyllosticta, Venturia
Crabapple	Gymnosporangium, Marssonina, Phyllosticta, Septoria, Venturia
Crape myrtle	Cercospora, Phomopsis, Phyllosticta
Croton	Gloeosporium Olasona arium Bhimantania
Cuphea (Mexican heather)	Gloeosporium, Rhizoctonia Retratia, Cladeoparium, Eusarium, Clamaralla, Bhullastista, Ramularia
Cyclamen	Botrytis, Cladosporium, Fusarium, Glomerella, Phyllosticta, Ramularia
Cypress Dahlia	Coryneum, Fusarium, Gymnosporangium, Lophodermium, Monchaetia, Pestalotia, Phomopsis Alternaria, Botrytis, Fusarium, Rhizoctonia
Daisy	Botrytis, Cercospora, Whetzelia
Daisy 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, Leptosphaeria
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 Potratio Phizostopia
Gypsophila	Botrytis, Rhizoctonia Cercospora, Cylindrosporium, Gloeosporium, Gymnosporangium, Monilinia, Mycosphaerella, Phyllosticta,
Hawthorn	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 Alternaria Ascochuta Carcospora Colletotrichum Puccinia Sentoria
Hollyhock Honeysuckle	Alternaria, Ascochyta, Cercospora, Colletotrichum, Puccinia, Septoria Alternaria, Cercospora, Gloeosporium, Herpobasidium, Phyllosticta
Honeysuckie 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
lvy	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, Coccomyces, 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, Cylindrocladium, 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
Palm, Areca	Alternaria, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Septoria
Palm, Arenga	Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina
Palm, Cabbage	Fusarium, Gloeosporium, Pestalotia, Stigmina
Palm, Coconut	Pestalotia
Palm, Date	Alternaria, Fusarium, Helminthosporium, Pestalotia
Palm, King	Alternaria, Fusarium, Helminthosporium, Pestalotia, Phomopsis
Palm, Phoenix	Alternaria, Cercospora, Fusarium, Gloeosporium, Pestalotia, Phomopsis, Stigmina
Palm, Queen	Glomerella, Septoria
Palm, Royal	Alternaria, Cercospora, Colletotrichum, Helminthosporium
Palm, Washington	Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina
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, Cylindrocladium, 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, Coccomyces, Coryneum, Monilinia, Phyllosticta, Taphrina
Poinsettia**	Botrytis, Cercospora, Fusarium, Uromyces
Poplar	Cercospora, Ciborinia, Colletotrichum, Cylindrocladium, Fusarium, Marssonina, Melampsora, Mycosphaerella,

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	Phyllosticta, Septoria, Stigmina, 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
Spirea	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, Cylindrocladium, Cylindrosporium, Gnomonia
Willow	Ascochyta, 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, Rhizoctonia
*Do not exceed 0.6 quarts per	100 gallons on flower spikes.
**Do not exceed 1.2 quarts per	100 gallons.
Do not treat marigolds due to h	ighly variable plant responses.

GRASSES: SODFARMS, TURF AND LAWN USE

For use on sod farms, golf courses, industrial and commercial lawns. Applications must be done by a professional applicator. Use on turfgrass in residential settings and in athletic fields is prohibited. Do not apply by air to sod farms or golf courses. Do not apply by chemigation to golf courses. Sod Farm Turf:

Harvesting of treated turf is prohibited until 120 hours following application.

- Do not apply more than 4 applications per year at a maximum application rate of 17.4 lb ai/A per application
- Do not allow less than a 10-day interval between applications
- Golf Courses:

For cool season grasses; greens, tees and aprons - do not apply more than 5 applications per year at a maximum application rate of 17.4 lb ai/A per application

For cool season grasses; fairways - do not apply more than 4 applications per year at a maximum application rate of 17.4 lb ai/A per application

For warm season grasses; greens, tees and aprons - do not apply more than 4 applications per year at a maximum application rate of 17.4 lb ai/A per application

For warm season grasses; fairways - do not apply more than 3 applications per year at a maximum application rate of 17.4 lb ai/A per application

Do not allow less than a 10-day interval between applications

All Other Turf:

- Do not apply more than 4 applications per year at a maximum application rate of 17.4 lb ai/A per application

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

- Do not allow less than a 10-day interval between applications

*Except CA

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Important--Keep in a cool place but not below 320 F. Temperature extremes will affect quality of MANZATE® Flowable. Store product in original container only, away from other pesticides, fertilizer, food or feed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONTAINER HANDLING DIRECTIONS FOR LARGE CONTAINERS:

CONTAINER REFILLING AND HANDLING (For containers up to 250 gal.): This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than MANZATE® Flowable. Reseal and return the container to any authorized United Phosphorus, Inc. refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

CONTAINER HANDLING FOR BULK CONTAINERS: When this container is empty, replace the cap and seal all openings that have been opened during use; and return the container to the point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact United Phosphorus, Inc. at 1-800-438-6071. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

ATTENTION: This product contains mancozeb and ETU, chemicals known to the State of California to cause cancer in laboratory animals. ETU is also known to the State of California to cause birth defects or other reproductive harm in laboratory animals.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UNITED PHOSPHORUS, INC. AND SELLER**

MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ON THIS LABEL. To the extent consistent with applicable law, United Phosphorus, Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF UNITED PHOSPHORUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT. United Phosphorus, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus, Inc.

Manzate is a registered trademark of United Phosphorus, Inc. Rev. 12/4/2014



MANZATE FLOWABLE FUNGICIDE

EPA Reg. No. 70506-236

For Use on Walnuts

This supplemental label expires on August 7, 2016 and must not be used or distributed after this date.

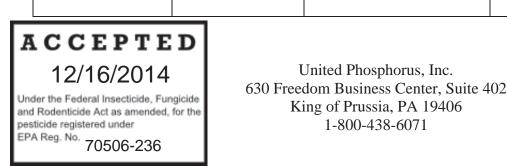
DIRECTIONS FOR USE

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

The supplemental labeling and the entire MANZATE FLOWABLE FUNGICIDE container label, EPA Registration Number 70506-236, must be in the possession of the user at the time of the application. Read the label affixed to the container for MANZATE FLOWABLE FUNGICIDE before applying. Carefully follow all precautionary statements and applicable use directions. Use MANZATE FLOWABLE FUNGICIDE according to this supplemental labeling is subject to the use precautions and limitations imposed by the label affixed to the container for MANZATE FLOWABLE FUNGICIDE.

DISEASES CONTROLLED	RATE MANZATE FLOWABLE FUNGICIDE PER APPLICATION	DIRECTIONS FOR USE	RESTRICTIONS/COMMENTS
Walnut Blight (Xanthomonas campestris pv. Juglandis)	1.8 qts./A (1.8 lbs ai)	Apply by ground in a minimum of 100 gallons water per acre, or by air in a minimum of 10 gallons water per acre. Begin application at early pre-bloom prior to or when catkins are partially expanded. Make additional application during bloom and early nutlet stage, or as needed if frequent rainfall occurs.	Do not apply through any irrigation system. The reapplication interval is 7-10 days. Do not make more than 10 applications per season. Do not apply more than 18 quarts (18 lbs ai) per acre per use season. This product must be tank mixed with a fixed copper product (such as Cuprofix Ultra 40 Disperss, EPA Reg. No. 70506-201) which is registered for use on walnuts. Preharvest Interval: Do not apply within 75 days before harvest.

USE RATES AND APPLICATION TIMING FOR USE ON WALNUTS



Manzate Flowable clean Copy 12_4_2014



Read the Limitation of Warranty and Liability on the container labeling before buying or using MANZATE FLOWABLE FUNGICIDE. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the container label.

Rev. 12/4/2014

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071