

70506-236

12/7/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC -7 2010

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

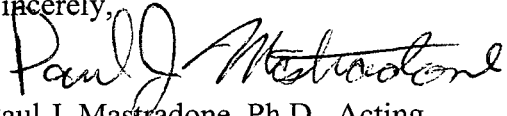
Ms. Rebecca A. Clemmer
Product Registration
United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request General Label Change/Contact Information and Primary Brand Name
Change "Manzate® Flowable Fungicide"
EPA Reg. No.70506-236
Application Dated September 30, 2010

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 09/30/10 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-5335 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

Paul J. Mastradone, Ph.D., Acting
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

DA 441106



United Phosphorus, Inc.

630 Freedom Business Center
Suite 402
King of Prussia, PA 19406
(610) 491-2828 (phone)
(610) 491-2810 (fax)

Rebecca A. Clemmer
Regulatory Manager

Sept. 30, 2010

Document Processing Desk (NOTIF)
Office of Pesticide Programs (H7504P)
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Ave., N.W.
Washington, D.C., 20460

Re: Change in Primary Brand Name Due to Product Transfer

To Whom It May Concern:

United Phosphorus, Inc. was granted registration of the products below as the result of a transfer from DuPont. Because of this, we are notifying the Agency that we are changing the primary brand names as listed. In addition, company contact and emergency information have also been updated. The names listed below are the new product names.

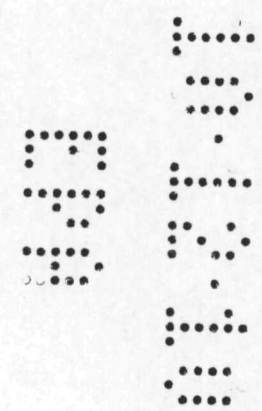
- Manzate Pro-Stick fungicide – EPA Reg. No. 70506-234
- Manzate 80WP fungicide – EPA Reg. No. 70506-235
- Manzate Flowable fungicide – EPA Reg. No. 70506-236

Enclosed for each product you will find (1) a marked label and (2) EPA form 8570-1.

Please contact me if you have any questions.

Very truly yours,

Rebecca A. Clemmer
rebecca.clemmer@uniphos.com



PRODUCT NAME

Manzate® Flowable

fungicide
FLOWABLE

NOTIFICATION
DEC - 7 2010

Active Ingredients

By Weight

A coordination product of zinc ion and manganese ethylenebisdithiocarbamate 37.0%
in which the ingredients are:

- Manganese++ 7.4%
- Zinc++ 0.9%
- Ethylenebisdithiocarbamate ion (C₄H₆N₂S₄) -- . . . 28.7%

Inert Ingredients 63.0%

TOTAL 100.0%

Contains 4.0 Pounds Active Ingredient Per Gallon

REG.
NO.

EPA Reg. No. 70506-236

EPA Est. No. 352-GA-002

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.

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 gal., 30 gal.



UPI

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

COMPANY NAME

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
- 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, is recommended for use 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.
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.

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 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.
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	Anthraxnose, 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.
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.

CROP	DISEASES CONTROLLED	RATE OF MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
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 (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 (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.
Pear	(See Pomefruit)			

CROP	DISEASES CONTROLLED	RATE OF MANZATE® FLOWABLE PER APPLICATION QTS/ACRE	TIMING/INTERVALS (Also refer to Directions for Use)	RESTRICTIONS/COMMENTS
Pome Fruit Apple, Pear, Crabapple, Quince	Rusts, Scab, Fabrea Leaf Spot	<p>4.8 Maximum per acre use rate based on thorough coverage dilute sprays.</p> <p>Use 50 gal minimum per acre.</p> <p>Consult State Extension Service if necessary to adjust for variable tree size.</p>	<p>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</p>	<p>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.</p>
		<p>2.4 Maximum per acre use rate based on thorough coverage dilute sprays.</p> <p>Use 50 gal minimum per acre.</p> <p>Consult State Extension Service if necessary to adjust for variable tree size.</p>	<p>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</p>	<p>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.</p>
Potato	<p>Early Blight, Late Blight, Black Dot</p> <p>Disease Suppression: Botrytis</p>	0.4-1.6	<p>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.</p>	<p>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.</p>
Potato (Seedpiece Treatment)	Fusarium Decay, Seedborne Common Scab	1 per 50 gal	<p>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.</p>	Do not use treated seed potatoes for food or feed purposes.
Squash (Summer Squash, Including Edible Gourd)	Downy Mildew	1.6-2.4	<p>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.</p>	<p>Do not apply within 5 days of harvest. Do not apply more than 19.2 qts (19.2 lbs active) per acre per crop.</p>
Sugar Beet	Cercospora Leaf Spot	1.2-1.6	<p>Begin when disease first threatens. Repeat at 7- to 10-day intervals.</p>	<p>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.</p>

CROP	DISEASES CONTROLLED	RATE OF 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.	Do not apply within 5 days of harvest. Do not apply more than 16.8 qts (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, 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.	Do not apply within 5 days of harvest. Do not apply more than 6.4 qts (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.
Watermelon	(See Melon)			
Wheat (Including Triticale)	(See Barley)			

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."

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

↓ WARRANTY

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 32°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 DISPOSAL: 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 DISPOSAL DIRECTIONS FOR LARGE CONTAINERS:

CONTAINER REFILLING AND DISPOSAL (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 DISPOSAL 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. 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.

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