

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 16 1992

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Mr. Gary R. Sandberg
Atochem North America
#3 Parkway, Room 619
Philadelphia, PA 19102

Subject: Amended Labeling - Reinstatement of Previously Deleted
Uses
Maneb 80, EPA Reg. No. 4581-255
Your Submission Dated February 26, 1992

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

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

- ✓a. The first two paragraphs under Worker Safety Rules relate to reentry. These statements should be placed with the section under "Reentry Statement".
- ✓b. For chinese cabbage (loose head), limit the use to California and Hawaii by adding "(California and Hawaii only)" under the crop name. Under cabbage and chinese cabbage, indicate when to begin treatments.
- ✓c. For lettuce, correct the spelling of "endive".
- ✓d. For peppers, East of the Mississippi, second sentence, correct interval to 7-10 days.
- ✓e. For potatoes, add Connecticut and Massachusetts to the list of states with pre-harvest intervals of three days.
- ✓f. For almonds, correct the last sentence under directions to read "orchards". Indent "fungus".
- ✓g. For cranberries, indicate when to begin applications.
- ✓h. Under grapes, correct "Bunch Rot".
- ✓i. For chrysanthemums, correct the spelling of "Ascochyta".

H7505C:J. Fairfax:4581-255:3/16/92

		CONCURRENCES					
SYMBOL							
SURNAME							
DATE							

j. For papayas, indent "Fruit Rot". Assure that you intend this disease claim for Phytophthora fruit rot. Previous maneb labels have not claimed control of this disease but have included Black Spot (Cercospora) control.

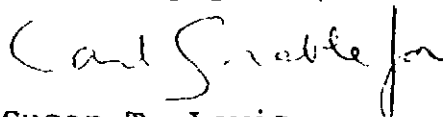
k. Under Environmental Hazards, revise the third sentence to "Do not apply directly to water, except as specified for the labeled use on cranberries, to areas...".

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

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

If you have any questions, please contact Julie Fairfax at (703) 305-7390.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Susan T. Lewis".

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

Enclosure

elf atochem
ATO

PROPOSED LABEL

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

4581-255

MANEB 80

FUNGICIDE

ACTIVE INGREDIENT

Maneb (Manganese ethylenebisdithiocarbamate)
(Equivalent to manganese metallic 16.5%)

80.0%

INERT INGREDIENTS

20.0%

TOTAL

100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

IF IN EYES, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN, immediately flush skin with plenty of water. Get medical attention if irritation persists.

See Back Panel for Additional Precautionary Statements

See following pages for General Information, Directions for Use, and Chemigation Instructions. Do not apply this product through any irrigation system unless these instructions are followed.

EPA Registration No. 4581-255

EPA Establishment No. 33910-HL-01

Net Weight 50 Lbs. (22.68 kg)

Sold by

ELF ATOCHEM NORTH AMERICA, INC.—AGCHEM DIVISION
Philadelphia, PA

BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION

HARMFUL IF SWALLOWED. ABSORBED THROUGH SKIN OR INHALED. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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. Do not contaminate water when cleaning or equipment washwaters.

GENERAL INFORMATION

MANE B 80 may be used as a spray for the control of many fungus plant diseases. It mixes readily with water, suspends well, and adheres to sprayed surfaces with a minimum of runoff.

DIRECTIONS FOR USE

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

WORKER SAFETY RULES

Do not enter treated areas within 24 hours after application unless wearing the protective clothing listed below. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

After sprays have dried, do not enter or allow entry into treated areas or areas where there is a danger of drift until the 24-hour reentry interval has expired unless wearing the personal protective equipment listed on this label.

Keep all unprotected persons, children, livestock, and pets away from treated area or where there is a danger of drift.

Do not rub eyes or mouth with hands. See Statement of Practical Treatment.

PERSONAL PROTECTIVE EQUIPMENT

HANDLERS (MIXERS, LOADERS, AND APPLICATORS) AND EARLY REENTRY WORKERS MUST WEAR THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT: coveralls over long-sleeved shirt and long pants, shoes, socks, and chemical-resistant gloves. During mixing and loading, a chemical-resistant apron and goggles or a face shield must also be worn. For agricultural workers, where completely enclosed cabs with positive pressure filtration or an enclosed cockpit for aerial application are used, a long-sleeved shirt and long pants may be worn in place of the protective clothing described above. Chemical-resistant gloves must be available in the cab or cockpit and worn upon exiting. The gloves must be kept in an enclosed container in the cab or cockpit to prevent contamination of the inside of the cab or cockpit.

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

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

PRECAUTIONARY STATEMENTS FOR HUMAN AND DOMESTIC ANIMALS

During aerial application, human beings are prohibited unless in fully enclosed vehicles.

BEST AVAILABLE COPY

REENTRY STATEMENT

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, such warnings shall be given in a language customarily understood by the workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by the workers. Written warnings must include the following information: "CAUTION Area treated with MANEB 80 Fungicide on (date of application) Do not enter without protective clothing within 24 hours after application."

INSTRUCTIONS FOR APPLICATION

MANEB 80 is recommended for control of the diseases on the crops listed below.

SPRAYS:

Place MANEB 80 into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on product labels prior to spray preparation.

FOR GROUND APPLICATIONS use at the rate indicated in sufficient water for thorough coverage, minimum 10 gallons. Increased volume of water may be necessary as foliage density increases.

To prepare mixture, sift in the required amount of product when the agitator paddles or the jet or recirculating pipe from pump are covered. Fill the tank with water when the product is thoroughly mixed. Three to four level teaspoonfuls of MANEB 80 per one gallon of water is equivalent to 1½ to 2 pounds per 100 gallons.

FOR AIR APPLICATION use at rate indicated in sufficient water for thorough coverage, a minimum of 3 gallons per acre for field crops and 10 gallons per acre for orchard crops.

When dosage ranges are given, use the higher rate and shorter intervals under severe disease pressure, but do not exceed the maximum rate or apply more frequently than the minimum interval given in the directions for that crop.

If this product is used on a crop, no other product containing a different EBDC active ingredient may be used on the same crop during the same growing season.

Maneb 80
VEGETABLE CROP USES

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Beans (Dry)	Anthrachnose Downy Mildew Rust	1.5 - 2.0	Begin when plants are small. Spray on a 5-7 day interval. Do not apply more than 9.6 lbs. active ingredient (12 lbs. product) per acre per season. Do not apply within 30 days of harvest.
Broccoli Brussels Sprouts Cauliflower	Alternaria Leaf Spot Downy Mildew	1.5 - 2.0	Begin when disease threatens. Spray on a 7-10 day interval. Do not apply more than 9.6 lbs. active ingredient (12 lbs. product) per acre per season. Do not apply within 7 days of harvest.
Cabbage Kohlrabi Chinese Cabbage (tightheaded only)	Alternaria Leaf Spot Downy Mildew	1.5 - 2.0	Plant beds and direct seeded fields: Spray on a 7-10 day interval. Do not apply more than 9.6 lbs. active ingredient (12 lbs. product) per acre per season. Do not apply later than 7 days before harvest.
Chinese Cabbage (loose head)	Alternaria Leaf Spot Downy Mildew	1.0 - 1.5	Plant beds and direct seeded fields: Spray on a 7-10 day interval. Do not apply more than 7.2 lbs. active ingredient (9 lbs. product) per acre per season. Do not apply later than 7 days before harvest in California and 10 days before in Hawaii.

VEGETABLE CROP USES

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
			<u>East of the Mississippi</u> (including Arkansas & Louisiana)
Sweet Corn	Common Rust	1.5	Use sufficient water for thorough coverage. Start applications when disease first appears and repeat at 3-10 day intervals. Add a recommended surfactant or spreader/sticker if needed for better coverage. Do not apply within 7 days of harvest. Do not apply more than 18 lbs. active ingredient (22.5 lbs. product) per acre per season. Do not feed treated forage to livestock.
Popcorn	Helminthosporium		
Sweet Corn	Blight		
used for seed production			
			<u>est of the Mississippi</u> (except Arkansas & Louisiana)
		1.5	Use sufficient water for thorough coverage. Start applications when disease first appears at 3-10 day intervals. Add a recommended surfactant or spreader/sticker if needed for better coverage. Do not apply within 7 days of harvest. Do not apply more than 6.0 lbs. active ingredient (7.5 lbs. product) per acre per season. Do not feed treated forage to livestock.
Cucumbers	Alternaria (Macrosorium) Leaf Spot Angular Leaf Spot Anthracnose Downy Mildew Pythium Fruit Rot	1.5 - 2.0	Begin when disease threatens or plants begin to run. Spray on a 7-10 interval. Do not apply more than 12.8 lbs. active ingredient (16 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Eggplant	Anthracnose Septoria Leaf Spot Cladosporium Leaf Mold Early Blight Late Blight Gray Leaf Spot (Stemphylium)	1.5 - 2.0	Begin at first fruit cluster and repeat at 7-10 day intervals. Do not apply more than 11.2 lbs. active ingredient (14 lbs. product) per acre per crop. Do not apply within 5 days of harvest.

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Kale	Alternaria Leaf Spot Downy Mildew	1.5 - 2.0	Begin when disease threatens and apply on a 7-10 day interval. Do not use more than 3.2 lbs. active ingredient (4.0 lbs. product) per cutting. Do not apply within 10 days of harvest.
Lettuce (Head and Leaf) Edible n	Downy Mildew	1.5 - 2.0	Apply when disease appears. Spray on a 7-10 day interval. Do not apply more than 9.6 active ingredient (12 lbs. product) per acre per season. Do not apply within 10 days of harvest. Remove residues from head lettuce by stripping and trimming. <u>California -</u> Spray on a 7-10 day interval. Do not apply more than 6.4 lbs. active ingredient maximum (8.0 lbs. product) per acre per season. Do not apply within 14 days of harvest.
Melons including: cantaloupes, casabas, crenshaws honeydews watermelons	Alternaria Leaf Spot Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight	1.0 - 2.0	Apply as soon as plants begin to run or when disease threatens. Spray on a 7-10 day interval. Do not apply more than 12.3 lbs. active ingredient (16 lbs. product) per acre per season. Do not apply within 5 days of harvest.

VEGETABLE CROP USES

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Onions (Dry Bulb)	Botrytis Leaf Blight Downy Mildew Neck Rot Purple Blotch	2.0 - 3.0	Begin applications when diseases are first reported in the area at 7-day intervals throughout the season. Do not apply within 7 days of harvest. Do not apply more than 24 lbs. active ingredient (30 lbs. product) per acre per season. Do not apply to exposed bulbs.
Onions (Green)	Botrytis Leaf Blight Downy Mildew Neck Rot Purple Blotch	2.0 3.0	Begin applications when diseases are first reported in the area at 7-day intervals throughout the season. Do not apply within 7 days of harvest. Do not apply more than 16.8 lbs. active ingredient (21 lbs. product) per acre per season. Do not apply to exposed bulbs.
(Furrow Drench)	Smut	3.0	Apply 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 lbs. active ingredient (3.0 lbs. product) per 29,000 linear feet of row (18 inch spacing). Do not use in California.
Peppers	Anthracnose Cercospora Leaf Spot (Frogeye spot) Phytophthora Blight Ripe Rot	1.5 - 3.0	<u>East of the Mississippi:</u> Begin when disease threatens. Spray on a 7-10 day interval. Do not apply more than 14.4 lbs. active ingredient (18 lbs. product) per acre per season. Do not apply within 7 days of harvest. <u>West of the Mississippi:</u> 1.5 - 2.0 Begin when disease threatens. Spray on a 7-10 day interval. Do not apply more than 9.6 lbs. active ingredient (12 lbs. product) per acre per season. Do not apply within 7 days of harvest.

CROP	DISEASES	RATE	LBS./ACRE DIRECTIONS
Potatoes	Early Blight	1.5 - 2.0	Begin when plants are 2 to 6 inches high. Apply on a 5-10 day interval. Do not apply more than 11.2 lbs. active ingredient (14 lbs. product) per acre per season. Do not apply within 14 days of harvest except for: Florida, Maine, New Hampshire, New York, Pennsylvania, Vermont, Wisconsin where the PHI is 3 days. It is recommended that this product be used with an Integrated Pest Management Program. Vine kill should occur 14 days before harvest.
	Late Blight		
Potatoes (Seed Pieces)	Fusarium Seed	1.0 lb. per 10 gal.	Seed piece treatment only. Dip whole or cut tubers. Spread in cool place if held before planting. Do not use treated seed piece for food, feed, or oil purposes.
	Piece Decay		

*Add:
Connecticut
+
Massachusetts*

VEGETABLE CROPS

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Pumpkins	Angular Leaf Spot Downy Mildew	1.5 - 2.0	Begin when disease threatens. Spray on a 7-10 interval. Do not apply more than 12.8 lbs. active ingredient (16 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Squash (Summer and Winter)	Anthraco nose Downy Mildew	1.5 - 2.0	Begin when plants start to run. Spray on a 7-10 interval. Do not apply more than 12.8 lbs. active ingredient (16 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Tomatoes (Greenhouse and Field)	Anthraco nose Septoria Leaf Spot Cladosporium Leaf Mold Early Blight Late Blight Gray Leaf Spot (Stemphylium)	1.5 - 3.0	<u>East of the Mississippi:</u> Begin at first fruit cluster and repeat on a 7-10 day intervals. Do not apply within 5 days of harvest. Do not apply more than 16.8 lbs. active ingredient (21 lbs. product) per acre per crop.
		1.5 - 2.0	<u>West of the Mississippi:</u> Spray on a 7-10 interval. Do not apply more than 6.4 lbs. active ingredient (8 lbs. product) per acre per season. Do not apply within 5 days of harvest.

FRUIT CROPS

CROPS
FOR POME FRUITS

DISEASES

RATE
LBS/ACRE DIRECTIONS

Use either the "Pre-Bloom" or "Extended Application" schedules.
DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES.

Apples	Rusts (including Cedar apple Fabrea Leaf Spot Flyspeck Scab Sooty Blotch	6.0 <i>or</i> <i>11.5 lbs.</i> <i>per 100</i> <i>gal. in</i> <i>a dilute</i> <i>spray</i>	<u>PRE-BLOOM:</u> Begin applica- tions at 1/4 to 1/2 inch green tip and continue on a 7- to 10-day application schedule through bloom. Do not apply more than 19.2 lbs. active ingredient (24 lbs. product) per acre per year. Do no graze livestock in treated areas.
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		3.0 <i>or</i> <i>(.75 lbs.)</i> <i>per 100</i> <i>gal. in</i> <i>a dilute</i> <i>spray</i>	<u>EXTENDED APPLICATION OR TANK MIX:</u> For implementation of IPM programs, applications based on tree-row volume or for use as a resistance management tool: begin applications at 1/4 to 1/2 inch green tip and continue applications on a 7- to 10-day schedule through the second cover spray or to within 77 days of harvest. Do not apply within 77 days of harvest. Do not apply more than 16.6 lbs. active ingredient (21 lbs. product) per acre per year. Do not graze livestock in treated areas. It is recommended that this product be used in an Integrated Pest Management Program.
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Add spreader/
sticker to spray mixture for
cover sprays and tank mix with an
effective systemic
protectant/curative
fungicide for more effective
control of diseases.

FRUIT AND NUT CROPS

CROPS	DISEASES	RATE LBS/ACRE	DIRECTIONS
Almonds	Brown Rot	6.0 - 8.0	Apply at popcorn, full bloom, and petal fall or every 7 to 10 days if bloom is staggered. Omit petal fall spray if only brown rot is present. Do not apply later than 5 weeks after petal fall or within 145 days of harvest. Do not apply more than 25.6 lbs. active ingredient (32 lbs. product) per acre per season. Do not allow livestock to graze in almond collards <i>Orchards.</i>
	Blossom and Twig Blight Scab Shot-hole Fungus (Leaf Blight)	<i>or</i> 1.5 - 2.0 <i>lbs per 100 gallons in a dilute spray)</i>	
Cranberries	Fruit Rot	4.8 - 6.0	Spray on a 7-10 day interval. Do not apply more than 14.4 lbs. active ingredient (18 lbs. product) per season. Do not apply within 30 days of harvest.
Grapes	Black Rot	1.5 - 4.0	<u>East of the Rocky Mountains</u> Apply in sufficient water to provide thorough coverage starting when shoots are 1/2 to 1 1/2 inches long and continue at 7-10 day intervals until fruit is set. Do not apply within 66 days of harvest. Do not apply more than 19.2 lbs. active ingredient (24 lbs. product) per acre per season.
	Buck Rot Deadarm Downy Mildew	<i>or</i> (0.375 - 1.0 <i>lbs per 100 gallons in a dilute spray)</i>	
		1.5 - 2.5	<u>West of the Rocky Mountains</u> Apply when shoots are 1/2 to 1 1/2 inches long and continue at 7-10 day intervals. Do not apply more than 6.0 lbs. active ingredient (7.5 lbs. product) per acre per season. Do not apply within 66 days of harvest except in California.
		(0.375 - 0.63 <i>lbs per 100 gallons in a dilute spray)</i>	<u>California -</u> Do not apply after bloom.

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Kadota figs	Surface Mold (Cladosporium)	0.75 lbs/ 100 Gal	Apply when disease threatens in 100-400 gallons of water /acre. Do not apply more than 2.4 lbs. active ingredient (3.0 lbs. product) per acre per season. not apply within 10 days of harvest.
	Surface Rot (Alternaria)		
Papayas	Anthracnose	2.0 - 2.5	Apply when disease first threatens and 14-21 day intervals. Do not apply more than 28 lbs. active ingredient per season (35 lbs. product). May be applied up to the day of harvest.
	Phytophthora Fruit Rot	<i>or</i> <i>(0.5 - 0.425</i> <i>lbs per 100</i> <i>gallons in</i> <i>a dilute</i> <i>spray).</i>	

FIELD CROPS

CROP

Sugarbeets

DISEASES

Cercospora

Leaf Spot

RATE

LBS./ACRE DIRECTIONS

1.5 - 2.0 Apply when disease appears.
Spray on a 7-10 day
interval. Do not apply more
than 11.2 lbs. active
ingredient (14 lbs. product)
per season. Do not apply
within 14 days of harvest.

COMMERCIAL ORNAMENTAL CROP USES
(NOT FOR HOMEGARDEN USE)
DO NOT USE ANY OF THESE CROPS FOR FOOD OR FEED PURPOSES

CROP	DISEASES	RATE LBS/100 GAL	DIRECTIONS
Carnations	Alternaria Leaf Spot Anthracnose Botrytis Blight	1.0 - 1.5	Begin when new growth starts. Repeat weekly.
Chrysanthemums	Asochyta Ray Blight Botrytis Petal Spot Septoria Leaf Spot	0.5 lbs or 227 grams	Apply twice weekly during the blooming season for Petal Spot and Ray Blight. For Septoria Leaf Spot apply weekly throughout the season.
Dahlias	Alternaria Leaf Spot Botrytis Blight	1.0 - 1.5	Begin when new growth starts. Repeat weekly.
Dogwood	Anthracnose	1.0 - 1.5	Begin when buds open. Repeat when bracts fall 4 weeks later and in late summer.
Gladiolus	Botrytis Blight Curvularia and Stemphylium Leaf Spots	1.5	Begin when flower spikes are developing. Repeat 2 to 3 times at weekly intervals.
Grasses Do not use on pasture or range grasses. Do not feed clippings to livestock. Do not use if grass is grown for seed.	Brown Patch	0.2 lbs or 90 grams	Begin at first sign of disease. Repeat at 7 to 14 day intervals.
	Dollar Spot	0.4 - 0.5 lbs or 170 - 227 grams	Apply as for Brown Patch, above.
	Melting-Out	0.2 - 0.3 lbs or 85 - 113 grams	Apply as for Brown Patch, above.
	Leaf, Stem and Stripe Ruts	3.0	Begin when rust pustules are first seen. Repeat at 7 to 14 day intervals. Do not graze treated areas. Do not feed clippings to livestock.

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COMMERCIAL ORNAMENTAL CROP USES
(NOT FOR HOMEGARDEN USE)
DO NOT USE ANY OF THESE CROPS FOR FOOD OR FEED PURPOSES

CROP	DISEASES	RATE LBS/100 GAL	DIRECTIONS
Lillies	Botrytis Blight	1.0 - 1.5	Begin with new growth. Repeat weekly.
Pansies	Anthracnose	1.0 - 1.5	Begin with new growth. Repeat weekly.
Peonies	Alternaria Leaf Spot Botrytis Blight Phytophthora Blight	1.0 - 1.5	Apply to foliage and soil in early spring and early fall and 7 to 10 day intervals during the growing season.
Roses	Black Spot Cercospora Leaf Spot (Texas) Rust (California)	1.0 - 1.5	Begin when first leaves unfold. Repeat at 7 to 10 day intervals.
Snap- dragons	Rust	1.0 - 1.5	Begin with emergence. Repeat weekly.
Zinnias	Alternaria Blight Leaf Spot Botrytis Blight	1.0 - 1.5	Begin with emergence. Repeat weekly.

<u>CROPS</u>	<u>DISEASE</u>	<u>RATE OF MANEB 80W LBS/A</u>	<u>REMARKS</u>
Bananas	Sigatoka	2-3	Apply when leaves first appear and repeat as needed on a 14-21 day interval. Do not apply more than 24 lbs ai (30 lbs product) per acre per season. May be applied up to the day of harvest.

CHEMIGATION NOT FOR THIS USE IN CALIFORNIA GENERAL INSTRUCTIONS

Apply MANEB 80 only through a pressurized irrigation system including center pivot, lateral main, end tow, wheel water, full travel, big gun, sub-surface or hand move. Do not apply MANEB 80 through any other type irrigation system.

Crop injury can occur if the wrong equipment or method is used in the crop or result from nonuniform distribution of treated water.

If you have any questions about application, you should contact State Extension Service specialists, equipment manufacturers or other experts.

A person who is responsible for 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.

Do not connect chemigation system to any public water system. Public water system means a system for the provision of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 households daily at least 60 days out of the year.

SYSTEM REQUIREMENTS

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

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.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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 injection system is either automatically or manually shut down.

The system must contain a functional device which will automatically shut off the injection pump when the water pump motor stops.

The injection pipeline water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where proper distribution is adversely affected.

Systems must use a metered pump to inject the pesticide into the water. The pump should be properly designed and constructed of material suitable for use with pesticides and must be properly labeled with a system interlock.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Use the following instructions in the System Requirements section above.

Do not apply when wind speed favors drift toward the area to be treated.

Apply MANEB 80 only through systems containing air syphon and check valves designed to prevent water source contamination or diversion of the tank water and contain a pressure relief device between the mixing device and the water pump to insure immediate shut-off.

Maintain a gentle constant circulation in the tank during mixing and application to insure uniform suspension.

Greater turbulence in the tank will result in a nonuniform suspension and a greater volume of the pesticide suspension per unit time.

Accumulation of material from tank to bottom of injection water chamber may result in uneven distribution of pesticide.

Do not add water to the tank while the water system is operating or attempting to change tank water. Do not provide uniform distribution when the center pivot or other center pivot system is not fully extended and drained in a center pivot system. Do not use the nozzle setting with the water injection unit to prevent spray being applied to the crop.

When some of the water patterns do not overlap, the water may not be adequately distributed. May result.

A low suspension may be produced by using a high water flow and a high injection rate into the injection water.

MANEB 80 may be applied to the crop with chemigation only. Do not apply MANEB 80 to the crop with high volume farm fans. Such application may have a detrimental effect on the crop. Do not apply MANEB 80 to the crop with high volume farm fans. Such application may have a detrimental effect on the crop. Do not apply MANEB 80 to the crop with high volume farm fans. Such application may have a detrimental effect on the crop.

Check local regulations and requirements regarding application of pesticides and other chemicals to the crop.

SPRAY PREPARATION

Reduce the amount of water used and other ingredients from the chemical tank and entire injection system. Fill with clean water.

Prepare a suspension of MANEB 80 in the tank. Fill the tank with water to the top. Add the required amount of water. Stir mechanically or hydraulically. Slowly add the required amount of MANEB 80 and then the remaining volume of water.

APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 0.2 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of MANEB 80 into the irrigation water line so as to deliver the pesticide per acre. The suspension of MANEB 80 should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

NOTE: When treatment with MANEB 80 has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

STORAGE AND DISPOSAL

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

Storage Instructions: Store in the original container in a dry area. If allowed to become wet the product will deteriorate and represent a fire hazard. Keep away from sources of ignition (e.g., sparks and open flames). Close bag when not in use. Do not store in manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

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

Container Disposal Instructions: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER

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