
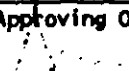


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4581-371

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	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number: <b>4581-371</b>	Date of Issuance: <b>DEC 18 1992</b>
	<b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration (under FIFRA, as amended)	Term of Issuance: <b>Conditional</b>	
		Name of Pesticide Product: <b>Maneb 75 DF Fungicide</b>	
Name and Address of Registrant (include ZIP Code): <b>Atochem North America, Inc.</b> <b>3 Parkway, Room 619</b> <b>Philadelphia, PA 19102</b>			
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.  Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.			
This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:			
1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.			
2. Revise the label by adding the phrase "'EPA Registration No. 4581-371'".			
3. Submit five copies of the final printed label for the record.			
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.			
A stamped copy of the label is enclosed for your records.			
Signature of Approving Official: 		Date: <b>DEC 1 1992</b>	

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**elf atochem**  
**ATO**

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**PROPOSED LABEL**

**ACCEPTED**  
**with COMMENTS**  
in EPA Letter Dated:

12-18-1992

MANEB 75DF

MANEB 75DF

MANEB 75DF

Under the Fungicide Act of 1948, this product is registered for use as a fungicide under EPA Reg. No.

4581-371

**Dry Flowable Fungicide**

**ACTIVE INGREDIENT:**

Maneb (Manganese ethylenebisdithiocarbamate)..... 75.0%

(Manganese equivalent as metallic 16.5%)

INERT INGREDIENTS:..... 25.0%

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 INHALED**, remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention.

**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  
type of irrigation system unless these instructions are followed.

EPA REG. NO. 4581-

EPA Establishment No.

Net Contents \_\_\_\_\_ lbs.

Sold by

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

2-5 18

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

**CAUTION**

**HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.** Avoid contact with skin 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; except as specified for the labeled use on cranberries to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**GENERAL INFORMATION**

MANEB 75DF 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**

Keep all unprotected persons, children, livestock, and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. See Statement of Practical Treatment.

## PERSONAL PROTECTIVE EQUIPMENT

ALL AGRICULTURAL WORKERS/HANDLERS (MIXERS, LOADERS, AND APPLICATORS) APPLYING EBDC'S 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.

During aerial application, human flaggers are prohibited unless in totally enclosed vehicles.

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.

DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

## REENTRY STATEMENT

Do not enter treated areas within 24 hours after application unless wearing the protective clothing listed on this label. 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.

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 75F fungicide on (date of application). Do not enter without protective clothing within 24 hours after application."

## INSTRUCTIONS FOR APPLICATION

MANEB 75F is recommended for control of the diseases on the crops listed below.

### SPRAYS:

Place MANEB 75F 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, fill 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 teaspoons of MANEB 75F 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 75DF  
VEGETABLE CROP USES

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Beans (Dry)	Anthracnose 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 (12.8 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 (12.8 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 (12.8 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 (9.6 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

CROP

DISEASES

RATE  
LBS/ACRE

DIRECTIONS

East of the Mississippi  
(including Arkansas & Louisiana)

Sweet Corn Common Rust 1.5  
Popcorn Helminthosporium  
Sweet Corn Blight  
used for  
seed production

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 (24.0 lbs. product) per acre per season. Do not feed treated forage to livestock.

West of the Mississippi  
(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 (8.0 lbs. product) per acre per season. Do not feed treated forage to livestock.

Cucumbers

Alternaria 1.5 - 2.0  
(Macrosporium)  
Leaf Spot  
Angular Leaf  
Spot  
Anthracnose  
Downy Mildew  
Pythium Fruit  
Rot

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 (17.1 lbs. product) per acre per season. Do not apply within 5 days of harvest.

Eggplant

Anthracnose 1.5 - 2.0  
Septoria Leaf  
Spot  
Cladosporium  
Leaf Mold  
Early Blight  
Late Blight  
Gray Leaf Spot  
(Stemphylium)

Begin at first fruit cluster and repeat at 7-10 day intervals. Do not apply more than 11.2 lbs. active ingredient (14.9 lbs. product) per acre per crop. Do not apply within 5 days of harvest.

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**CROP**  
Kale

**DISEASES**  
Alternaria  
Leaf Spot  
Downy Mildew

**RATE**  
**LBS/ACRE**  
1.5 - 2.0

**DIRECTIONS**

Begin when disease threatens and apply on a 7-10 day interval. Do not use more than 3.2 lbs. active ingredient (4.2 lbs. product) per cutting. Do not apply within 10 days of harvest.

Lettuce  
(Head and  
Leaf)  
Endive

Downy Mildew

1.5 - 2.0

Apply when disease appears. Spray on a 7-10 day interval. Do not apply more than 9.6 lb. active ingredient (12.8 lbs. product) per acre per season. Do not apply within 10 days of harvest. Remove residues from head lettuce by stripping and trimming.

California - Spray on a 7-10 day interval. Do not apply more than 6.4 lbs. active ingredient maximum (8.5 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 12.8 lbs. active ingredient (17.1 lbs. product) per acre per season. Do not apply within 5 days of harvest.



VEGETABLE CROP

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 (32.0 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 (22.4 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 (3.2 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	<p><u>East of the Mississippi:</u> Begin when disease threatens. Spray on a 7 day interval. Do not apply more than 14.4 lbs. active ingredient (19.2 lbs. product) per acre per season. Do not apply within 7 days of harvest.</p> <p><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 (12.8 lbs product) per acre per season. Do not apply within 7 days of harvest.</p>

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CROP  
Potatoes

DISEASES  
Early Blight  
Late Blight

RATE  
LBS/ACRE DIRECTIONS

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 (14.9 lbs. product) per acre per season. Do not apply within 14 days of harvest except for: Florida, Connecticut, Maine, Massachusetts, 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.

Potatoes  
(Seed  
Pieces)

Fusarium Seed  
Piece Decay

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.

# 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 (17.1 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Squash (Summer and Winter)	Anthracnose 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 (17.1 lbs. product) per acre per season. Do not apply within 5 days of harvest.
Tomatoes (Greenhouse and Field)	Anthracnose 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 (22.4 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 (8.5 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	6.0	<b><u>PRE-BLOOM:</u></b> 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 (25.6 lbs. product) per acre per year. Do no graze livestock in treated areas.
	(including Cedar apple (1.5 lbs. Fabrea Leaf per 100 Spot gal. in Flyspeck dilute Scab spray) Sooty Blotch	or 3.0 or (0.75 lbs. per 10 gal. in dilute spray)	
			<b><u>EXTENDED APPLICATION OR TANK MIX:</u></b> 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 16.8 lbs. active ingredient (22.4 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.**

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 (34.1 lbs. product) per acre per season. Do not allow livestock to graze in almond orchards.
	Blossom and	or	
	Twig Blight	(1.5 - 2.0	
	Scab	lbs. per	
	Shot-hole	100 gal.	
	Fungus (Leaf Blight)	in a dilute spray applied to run-off)	
Adjust the spray concentration in concentrate spray for different sized trees.			
Bananas	Sigatoka	2.0 - 3.0	Apply when leaves first appear and repeat as needed on a 14-21 day interval. Do not apply more than 24 lbs. active ingredient (32 lbs. product) per acre per season. May be applied up to the day of harvest.
Cranberries	Fruit Rot	4.8 - 6.0	Spray on a 14-21 day interval. Do not apply more than 14.4 lbs. active ingredient (19.2 lbs. product) per season. Do not apply within 30 days of harvest.

CROP	DISEASES	RATE LBS/ACRE	DIRECTIONS
Grapes	Black Rot	1.5 - 4.0	<u>East of the Rocky Mountains</u> Apply in sufficient water to provide thorough coverage
	Bunch Rot	or	starting when shoots are 1/2
	Deadarm	(0.375-1.0	to 1 1/2 inches long and
	Downy Mildew	lbs. per	continue at 7-10 day
		100 gal.	intervals until fruit is
		in a	set. Do not apply within 66
		dilute	days of harvest. Do not
		spray)	apply more than 19.2 lbs.
			active ingredient (25.6 lbs.
			product) per acre per
			season.
			<u>West of the Rocky Mountains</u>
		1.5 - 2.5	Apply when shoots are 1/2 to
		or	1 1/2 inches long and
		(0.375 -	continue at 7-10 day
		0.63 lbs.	intervals. Do not apply more
		per 100	than 6.0 lbs. active
		gal. in	ingredient (8.0 lbs.
		a dilute	product) per acre per
		spray)	season. Do not apply within
			66 days of harvest except in
			California.
			<u>California -</u> Do not apply
			after bloom.
Kadota figs	Surface Mold	0.75 lbs/	Apply when disease threatens
	(Cladosporium)	100 Gal	in 100-400 gallons of water
	Surface Rot		acre. Do not apply more
	(Alternaria)		than 2.4 lbs. active
			ingredient (3.2 lbs.
			product) per acre per
			season. Do not apply within
			10 days of harvest.
Papayas	Anthracnose	2.0 - 2.5	Apply when disease first
	Phytophthora	or	threatens and 14-21 day
	Fruit Rot	(0.5 -	intervals. Do not apply more
		0.625 lbs.	than 28 lbs. active
		per 100	ingredient per season (37.0
		gal. in	lbs. product). May be
		a dilute	applied up to the day of
		spray)	harvest.

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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 (14.9lbs. product)  
per season. Do not apply  
within 14 days of harvest.

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**COMMERCIAL ORNAMENTAL CROPS  
(NOT FOR HOMEGARDEN USE)**

**DO NOT USE ANY OF THESE CROPS FOR FOOD OR FEED PURPOSES**

<b>CROP</b>	<b>DISEASES</b>	<b>RATE LBS/100 GAL</b>	<b>DIRECTIONS</b>
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 Rust	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	Anthrachnose	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.

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## CHEMIGATION NOT FOR THIS USE IN CALIFORNIA GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side wheel, roll traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

Good timing, rate of effectiveness, or legal pesticide residues in the crop can result from nonuniform distribution of treated water.

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

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.

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; 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 it from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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.

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.

### INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section above.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply MANEByg through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area.

Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

MANEByg may be applied in conjunction with chemical, neutral, or acid fertilizers. Application in conjunction with highly alkaline fertilizers, such as sodium ammonium, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

#### SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Prepare a suspension of MANEByg in a mix tank. Fill the tank with 10 to 25% the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of MANEByg and then the remaining volume of water.

#### APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of MANEByg into the irrigation water line so as to deliver the desired rate per acre. The suspension of MANEByg 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 MANEByg 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 flame). 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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