

## INSTRUCTIONS FOR USE ON DOMESTIC ANIMALS

Use as a mist. Avoid contact with eyes, skin, or mucous membranes. Seek medical attention.

## WARNINGS

Do not use where runoff is likely to occur. Do not contaminate water by cleaning of equipment.

## HAZARDS

## USE

Use with its labeling.

## DISPOSAL

Do not use for food or feed by storage or disposal.

32° F. Do not allow to become overheated. Do not use if fungicidal effectiveness of MF-4. Keep out of reach of children.

Do not use if cannot be used according to label instructions or procedures.

Do not use if cycling or reconditioning, or puncture and repair procedures.

## USE AS A SPRAY

Use with available equipment in either dilute or full strength. In 100 gallons of dilute spray unless otherwise specified, use the rates for dilute sprays on a per acre basis.

For certain crop disease; see product labeling for instructions.

Amount Per Acre		
MF-4 (Gals.)	In	WATER (Gals.)
1 to 5.6		10 to 15

2 to 1.6 5 to 8

2 to 2.4 5 to 8

spray delivery is uniform over the entire spray

## AGRICULTURAL FRUIT AND NUT CROP USES

**ALMONDS:** Brown Rot Blossom and Twig Blight, Leaf Blight, Scab - 1.2 to 1.6 quarts. Apply in popcorn, full bloom, and petal fall or every 7 to 10 days if bloom is staggered. Shothole - 1.2 to 1.6 quarts. Begins in dormant stage. Repeat at 7 to 10 day intervals through petal fall. If applied after petal fall, do not feed hulls to dairy animals or animals being finished for slaughter. Do not apply later than 5 weeks after petal fall.

**APPLES:** Black Rot, Bitter Rot, Botryosphaeria (White Rot), Bulkyeye Rot, Cedar-Apple Rust, Flyspeck, Scab and Sooty Blotch - 1.2 to 1.6 quarts plus suitable spreader-sticker. Begin in prebloom, calyx, or first cover stages. Repeat at 7 to 14 day intervals as necessary. Do not graze livestock in treated areas. Do not apply within 15 days of harvest in Arkansas, Delaware, Illinois, Indiana, Kansas, Kentucky, Maryland, Missouri, New Jersey, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia and West Virginia. Do not apply within 30 days of harvest in other states.

**APRICOTS:** Brown Rot (Blossom, Twig and Fruit) - 1.2 to 1.6 quarts. Begin at red bud stage. Repeat in early bloom, full bloom, petal fall, and at 7 to 14 day intervals as necessary up to 2 weeks before harvest. Jacket Rot (Green Rot) - 1.6 quarts at full bloom and petal fall. Shothole - 1.6 quarts from dormant through petal fall stages in regular schedule. Do not apply later than 14 days before harvest.

**BANANAS:** Sigatoka (*Cercospora musae*) - 2.4 to 4.0 quarts/acre in sufficient water to cover. Apply at 2 week intervals beginning at first sign of disease.

**CRANBERRIES:** Fruit Rots (Massachusetts) - 1.6 to 2.4 quarts. Begin at midbloom. Repeat at 10 to 14 day intervals. Do not apply later than 4 weeks after midbloom. Twig Blight (*Lophodermium*), Fruit Rots (Washington and Oregon) - 1.6 quarts per 100 gallons of water. Apply 350.0 gallons per acre. Begin after blooming. Repeat between July 10 to 20, August 1 to 10, and August 10 to 25. Fruit Rots (*Guignardia*, *Sporonema*, and *Glomerella*) (New Jersey and Wisconsin) - 1.6 quarts. Begin after midbloom. Repeat 10 to 14 days later and 4 weeks after midbloom. Do not apply within 30 days of harvest.

**FIGS (Kadota):** Surface Molds and Rot (*Alternaria*, *Cladosporium* Species) - 0.6 quart. Make one application 10 to 20 days before harvest. Do not apply within 10 days of harvest.

**GRAPES:** Black Rot - Apply 1.2 to 1.6 quarts/100 gallons. Begin just before bloom. Repeat just after bloom and again 20 days later; do not apply later than 20 days after bloom.

**NECTARINES:** Brown Rot, Shothole - 1.2 to 1.6 quarts. Begin at red bud. Repeat in early bloom, full bloom, petal fall, and at 7 to 14 day intervals up to 2 weeks before harvest. Do not apply within 14 days of harvest.

**PAPAYAS:** Anthracnose (*Colletotrichum*), Black Spot (*Cercospora*) - 1.6 to 2.4 quarts in sufficient water to cover (not less than 50.0 gallons) per acre. Add 4.0 ounces of spreader-sticker/100 gallons of spray suspension. Begin when fruit is set. Repeat at 10 to 14 day intervals during winter and early spring and every 7 days during wet weather. Direct spray to central column of tree to cover developing fruit.

**PEACHES:** Brown Rot, Scab, Shothole - See under Nectarines, Peach Leaf Curl - 1.2 to 2.6 quarts. Apply in spring dormant period. Do not apply within 2 days of harvest. If applied within 14 days of harvest, remove residues by brushing.

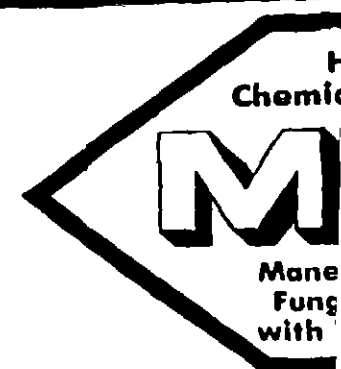
## AGRICULTURAL VEGETABLE CROP USES

**ASPARAGUS:** Rust - 2.4 quarts/50 to 200 gallons/acre. Begin in established fields immediately after harvest. Repeat at 10 day intervals as long as necessary. In young fields which will not be harvested, begin when disease appears and repeat at 10 day intervals. Postharvest application only on established fields.

**BEANS (Lima):** Anthracnose, Downy Mildew - 1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 4 to 7 day intervals. Do not apply within 4 days of harvest of succulent beans.

**BEANS (Green and Dry):** Anthracnose, Downy Mildew, Rust - 1.2 to 1.6 quarts. Begin when plants are small. Repeat at 5 to 7 day intervals. Do not apply within 4 days of harvest of succulent beans.

**BROCCOLI:** *Alternaria* Leaf Spot, Downy Mildew - 1.2 to 1.6 quarts. Begin when diseases threaten. For Downy Mildew begin in plant bed and repeat at 3 day intervals. In field, repeat at 7 to 14 day intervals. If applied within 3 days of harvest, remove residues by washing or trimming.



## ACTIVE INGREDIENT

Maneb (Manganese Ethylenebisdithiocarbamate)  
(Total Manganese as metallic).....

INERT INGREDIENTS.....

This product contains

## KEEP OUT OF REACH OF CHILDREN

## STATEMENT OF WARNING

May cause irritation of eyes, nose, throat, and skin. Wash with eyes, skin or clothing. In case of contact, get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting by touching back of throat with anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air. Get medical attention.

IF IN EYES: Flush with plenty of water. Get medical attention.

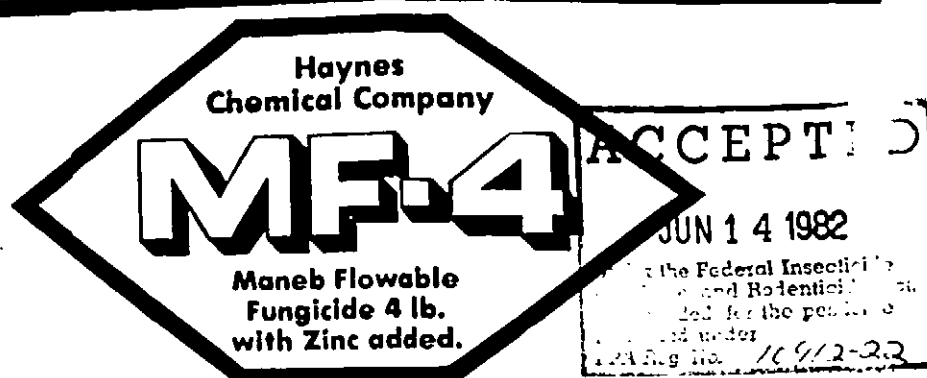
See side panel for additional precautionary statements.

Manufactured by Haynes Chemical Company

EPA Reg.

EPA Est.

Net Content



**ACTIVE INGREDIENT**

Maneb (Manganese Ethylenebisdithiocarbamate)..... 37%  
(Total Manganese as metallic..... 9.2%)

**INERT INGREDIENTS**..... 63%  
100%

This product contains 4 pounds Maneb per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

May cause irritation of eyes, nose, throat and skin. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. In case of contact, flush with plenty of water. For eyes get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF INHALED:** Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

See side panel for additional precautionary statements.

Manufactured by Haynes Chemical Co., P.O. Box 30, East Grand Forks, MN 56721

EPA Reg. No. 10912-22  
EPA Est. No. 10912-MN-1

Net Contents 2½ gallons

**BRUSSELS SPROUTS, CAULIFLOWER, AND KOHLRABI:** Alternaria Leaf Spot, Downy Mildew - 1.2 quarts. Begin when diseases threaten. Repeat at 3 day intervals in plant beds and at 7 to 10 day intervals in field.

**CABBAGE:** Alternaria Leaf Spot, Downy Mildew - 1.2 to 1.6 quarts. Begin 7 to 10 days after planting. Repeat at 3 to 5 day intervals in plant bed and field. Do not apply within 7 days of harvest.

**CANTALOUPE, CASSABAS, CRENSHAW, HONEYDEW MELONS, HONEY BALLS, MUSKMELONS, PERSIAN MELONS, and WATERMELONS:** Anthracnose, Cercospora Leaf Spot, Downy Mildew, Gummy Stem Blight - 1.2 to 1.6 quarts. Begin at late bunching when vines begin to run or when disease first appears. Repeat at 7 to 10 day intervals. Do not apply within 5 days of harvest.

**CARROTS:** Alternaria and Cercospora Leaf Spots - 1.2 to 1.6 quarts. Begin when plants are 6 weeks old. Repeat at 7 to 10 day intervals.

**CASSABA MELONS:** See under Cantaloupes.

**CAULIFLOWER:** See under Brussels Sprouts.

**CELERY:** Early Blight (Cercospora), Late Blight (Septoria) - 1.2 to 1.6 quarts. Begin when plants emerge in plant beds. Repeat at 3 to 5 day intervals in plant beds and at 7-10 day intervals after plants are set in field. Remove excess residues by stripping, trimming and washing. Do not apply within 14 days of harvest.

**COLLARDS, KALE, MUSTARD GREENS, TURNIPS:** Alternaria Leaf Spot and Downy Mildew - use 0.8 to 2.4 quarts per acre and start applications when disease first appears in area and repeat at 7 to 10 day intervals. Do not apply within 10 days of harvest. Remove excess residues by washing.

**CORN (Sweet):** Helminthosporium Blight - 1.2 quarts. Begin when plants are 6 inches high. Repeat at 4 to 7 day intervals until harvest. Do not feed treated forage to livestock.

**CRENSHAW MELONS:** See under Cantaloupes.

**CUCUMBERS:** Alternaria (Macrosporium) Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildew, Pythium Fruit Rot - 1.2 to 1.6 quarts. Begin when diseases threaten or plants begin to run. Repeat at 7 to 10 day intervals or at 3 to 5 day intervals under severe disease conditions. Do not apply within 5 days of harvest.

**EGGPLANT:** Anthracnose, Early Blight (Alternaria), Phomopsis Blight or Fruit Rot - 1.2 to 1.6 quarts. Begin when fruit starts to form. Repeat at 7 to 10 day intervals.

**ENDIVE, LETTUCE:** Downy Mildew - 1.2 to 1.6 quarts. Begin when disease appears. Repeat at 7 to 10 day intervals. Do not apply within 10 days of harvest. Remove residues from head lettuce by stripping and trimming, and from leaf lettuce and endive by washing or other effective means.

**HONEY BALL MELONS:** See under Cantaloupes.

**HONEYDEW MELONS:** See under Cantaloupes.

**KOHLRABI:** See under Brussels Sprouts.

**LETTUCE:** See under Endive.

**MELONS:** See under Cantaloupes.

**MUSKMELONS:** See under Cantaloupes.

**ONIONS:** Botrytis Leaf Blight (Blast), Downy Mildew, Purple Blotch - 1.2 to 1.6 quarts. Begin at first sign of disease. Repeat at 7 to 10 day intervals.

**PEPPERS:** Anthracnose, Cercospora Leaf Spot (Frogeye Spot), Ripe Rot - 1.2 to 1.6 quarts. Begin when disease threatens. Repeat at 7 to 10 day intervals.

**PERSIAN MELONS:** See under Cantaloupes.

**POTATOES:** Early and Late Blights - 1.2 to 1.6 quarts. Begin when plants are 2 to 6 inches high. Repeat at 5 to 10 day intervals, more often under severe late blight conditions.

**POTATOES (Seed Pieces):** Fusarium Seed Piece Decay - 1.0 quart/10 gallons. Dip whole or cut tubers. Spread in cool place if held before planting. Seed piece treatment only. Do not use excess seed pieces for food or feed.

**PUMPKINS:** Angular Leaf Spot, Downy Mildew - 2.4 quarts/acre in sufficient water to cover or 1.2 to 1.6 quarts/100 gallons. Begin when disease threatens. Repeat at 7 to 10 day intervals.

**RHUBARB (Greenhouse, Michigan):** Botrytis Leaf Rot - 1.6 quarts. Begin 4 weeks before harvest. Make 4 applications at 7 day intervals.

**SPINACH:** Downy Mildew (Blue Mold), White Rust - 1.2 to 1.6 quarts. Begin when disease appears. Repeat at 7 to 10 day intervals. Do not apply within 10 days of harvest. Remove excess residues by washing.

**SQUASH (Summer and Winter):** Anthracnose, Downy Mildew - 1.2 to 1.6 quarts. Begin when plants start to run. Repeat at 7 to 10 day intervals. Do not apply within 5 days of harvest.

**TOMATOES (Greenhouse and Field):** Cladosporium Leaf Mold, Early and Late Blights, Gray Leaf Spot (Stemphylium), Septoria Leaf Spot - 1.2 to 1.6 quarts. Begin at first fruit cluster and repeat at 7 to 10 day intervals. Anthracnose - 2.4 quarts. Begin when first fruit forms. Repeat at 7 to 10 day intervals. Do not apply within 5 days of harvest.

**WATERMELONS:** See under Cantaloupes.

### AGRICULTURAL FIELD CROP USES

**GRASSES (Ornamental - Grown for Replanting Seed Purposes Only):** Leaf, Stem, and Stripe Rust - 1.6 to 2.4 quarts/50 to 100 gallons per acre. Begin when rust pustules are first seen. Repeat at 7 to 14 day intervals. Do not feed treated grass to livestock.

**SUGAR BEETS:** Leaf Spot (Cercospora) - 1.2 to 2.4 quarts in sufficient water/acre. Begin when disease threatens. Repeat at 7 to 10 day intervals for 3 to 5 applications. Do not apply within 14 days of harvest. Do not feed treated tops to livestock.

**TOBACCO:** Blue Mold - 0.4 to 3.2 quarts. Use 2.5 to 5.0 gallons of diluted suspension/100 square yards of plant bed. Begin when plants are about the size of a dime or when blue mold is first reported in area. Repeat twice weekly until plants are set in field. Use lower rates in early applications increasing to 3.2 quarts as plants increase in size. For disease control under field conditions, use 1.4 to 2.5 quarts per acre. Repeat as necessary.

### AGRICULTURAL ORNAMENTAL CROP USES

**CARNATIONS:** Alternaria Leaf Spot, Anthracnose, Botrytis Blight - 0.8 to 1.2 quarts. Begin when new growth starts. Repeat weekly.

**CHRYSANTHEMUMS:** Ascochyta Ray Blight, Botrytis Petal Spot, Septoria Leaf Spot. Use 12.8 fluid ounces MF-4 plus 3/4 pound Captan 50W per 100 gallons of water. 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 - 0.8 to 1.2 quarts. Begin when new growth starts. Repeat weekly.

**DOGWOOD:** Anthracnose - 0.8 to 1.2 quarts. Begin when buds open. Repeat when bracts fall 1 week later and in late summer.

**GLADIOLUS:** Botrytis Blight, Curvularia and Stemphylium Leaf Spots - 1.2 quarts. Begin when flower spikes are developing. Repeat 2 to 3 times at weekly intervals.

**GRASSES (Nongrazed Areas):** Brown Patch - 4.8 fluid ounces in sufficient water/1000 square feet. Begin at first sign of disease. Repeat at 7 to 14 day intervals. Dollar Spot - 9.6 to 12.8 fluid ounces in sufficient water/1000 square feet. Apply as for Brown Patch, above. Melting-Out - 4.8 to 6.4 fluid ounces in sufficient water/1000 square feet. Apply as for Brown Patch, above. Leaf, Stem and Stripe Rusts - 2.4 quarts/100 gallons/acre. 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.

**LILIES:** Botrytis Blight - 0.8 to 1.2 quarts. Begin with new growth. Repeat weekly.

**PANSIES:** Anthracnose - 0.8 to 1.2 quarts. Begin with new growth. Repeat weekly.

**PEONIES:** Alternaria Leaf Spot, Botrytis Blight, Phytophthora Blight - 0.8 to 1.2 quarts. 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) - 0.8 to 1.2 quarts. Begin when first leaves unfold. Repeat at 7 to 10 day intervals.

**SNAPDRAGONS:** Rust - 0.8 to 1.2 quarts. Begin with emergence. Repeat weekly.

**ZINNIAS:** Alternaria Blight, Leaf Spot, Botrytis Blight - 0.8 to 1.2 quarts. Begin with emergence. Repeat weekly.

**NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use, storage or handling of this product in a manner other than as directed by label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. These risks include, but are not limited to, damage to plants, crops and animals to which the material is applied, failure to control pests, damage caused by drift to other plants or crops, and personal injury.