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SEE BACK PANEL FOR ADDITIONAL CAUTIONS

## BEST DI

# KOCIDE® MANEB AGRICULTURAL FUNGICIDE

# PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Long pants, long sleeve shirt, gloves, hat and boots must be worn during mixing and loading of this product.

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 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.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Apply this product only as specified on this label.

### **GENERAL INSTRUCTIONS**

Use KOCIDE MANEB as noted below. Pour slowly into spray tank as it is being filled. For concentrate or aircraft sprayers, premix thoroughly in nurse tank. Add nutritional sprays and/or insecticides last. KOCIDE MANEB can be applied alone or in combination with various other pesticides according to recommended spray schedules. Observe all cautions and limitations on labels of all products used in mixtures.

The following specific instructions are based on general applications. The recommendations of the State Agricultural Extension Services should be closely followed as to timing, frequency and number of sprays per season.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by storage or disposal Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to applicable Federal, State or Local procedures. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by State or Local authorities.

### **DIRECTIONS FOR USE AS A SPRAY**

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

NOTICE: KOCIDE CHEMICAL CORPORATION warrants that this product in its unopened package conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions on the plants and crops specified. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes all risk of any such use

ALMONDS, Brown Rot Blight (Biossom to 1.6 quarts per 100 gallons of water. A fall stages or every 7 to 10 days duting (Shot Hole). Use 1.2 to 1.6 quarts beginn 7 to 10 day intervals through petal fall. D petal fall.

APPLES, Briter Rot, Black Rot (Frut & Bullseye Rot, Cedar Apple Rust, Flyspe 1 6 quarts per 100 gallions of water plus st tions at pre-bloom, calyx of first cover sta to 14 day intervals as needed.

APRICOTS, Brown Rot (Biossom, Twig gallons of water starting at red bud star petal fall and at 7 to 14 day intervals as weeks of hervest. Jacket (Green) Rot water at full bloom and petal fall. Corynet per 100 gallons of water from dormant th Do not apply within 14 days of hervest

ASPARAGUS, Rust. Use 2.4 quarts in 5 established fields, begin application immiday intervals as long as rust persists. In you start application when disease appears harvest application to be made only on established.

BANANAS, Cercospora Musae (Sigatoli cient volume of water to cover all plant beginning at initial sign of disease. Cro Gleosponium & Thielaviopsis Species) U dilute suspension per 100 trays of fruit as: following a water rinse spray or passage to disped in the dilute suspension.

BEANS, (Lima) Anthracnose & Downy i cient water to obtain good coverage sta applications at 4 to 7 day intervals. De no

BEANS, (Snap or String) Anthracriose, i quarts in sufficient water for good coverac small and repeat at 5 to 7 day intervals. Do

BROCCOLI, Alternana Leaf Spot & Dov sufficient water for good coverage starting Downy Mildew Begin applications in planed, repeat at 7 to 14 day intervals. If agresidue must be removed by thorough BRUSSELS SPROUTS, CAULIFLOWEL & Downy Mildew. Use 1.2 quarts per 101 signs of diseases. In plant beds, repeat a 10 day intervals in field.

CASBAGE, Alternana Leaf Spot & Dow sufficient water starting 7 to 10 days after day intervals both in plant bed and field. Do

CANTALOUPE, CASSABAS, CREN MONEY BALLS, MUSKMELONS, PERS spora Leaf Spot. Downy Mildew & Gurni per 100 gallons of water beginning at late when disease first threatens. Repeat at 7

CARROTS, Alternana & Cercospora Lea gallons of water starting when plants are s

CELERY, Early Blight (Cercospora) and quarts per 100 gallons of water beginning repeat at 3 to 5 day intervals. When plant intervals. Romove excess residue by str.; apply within 14 days of hervest.

CORN (Sweet) Helminthosporium Bligh water starting when plants are six inches? intervals until harvest. Do not feed treated

CRANBERRIES, Frut Rots (Guignardia JERSEY AND WISCONSIN) Uso 1 6 quafter mid-bloom Repeat after 10 to 14 day again after 14 to 21 days (MASSACHUS ga'ons of water starting at mid-bloom Report applications. Twig Bright (Lophoderm. WASHINGTON) Use 1 6 quarts per 100 g spray per acre. Make first application after and 20. August 1 and 10. and August 10 acre.

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g filled. For concentrate and/or insecticides last. cesticides according to sof all products used in

commendations of the trequency and number

by storage or disposal, ns must be disposed of Then offer for recycling te or Local authorities.

with its labeling.

package conforms to the when used according to OTHER WARRANTIES, ULAR PURPOSE. This tions or under abnormal all risk of any such use.

# BEST DOGUMENT AND LABLE

### **DIRECTIONS FOR USE (CONTINUED)**

ALMONOS, Brown Rot Blight (Blossom & Twig). Leaf Blight & Scab. Use 1.2 to 1.6 quarts per 100 gallons of water Apply at popcorn, full bloom and petal fall stages or every 7 to 10 days during staggered bloom. Coryneum Blight (Shot Hole). Use 1.2 to 1.6 quarts beginning in dormant stage and repeating at 7 to 10 day intervals through petal fall. Do not apply later than 5 weeks after petal fall.

APPLES, Bitter Rot, Blauk Rot (Fruit & Foilage), Botryosphaeria (White Rot), Builseye Rot, Cedar Apple Rust, Flyspeck, Scab and Sooty Blotch. Use 1.2 to 1.6 quarts per 100 gallons of water plus suitable spreader sticker Begin applications at pre-bloom, callyx or first cover stage followed by repeat applications at 7 to 14 day intervals as needed.

APRICOTS, Brown Rot (Biossom, Twig & Fruit). Use 1.2 to 1.6 quarts per 100 gailons of water starting at red bud stage. Repeat in early bloom, full bloom, petal fall and at 7 to 14 day intervals as necessary. Do not apply within two weeks of harvest. Jacket (Green) Rot Apply 1.6 quarts per 100 gailons of water at full bloom and petal fall. Coryneum Bight (Shot Hole). Apply 1.6 quarts per 100 gailons of water from dominant through petal fall on a regular schedule. Do not apply within 14 days of harvest.

ASPARAGUS, Rust. Use 2.4 quarts in 50 to 200 gations of water per acre. In established fields, begin application immediately after harvest and repeat at 10 day intervals as long as rust persists. In young fields which will not be harvested start application when disease appears and repeat at 10 day intervals. Post harvest application to be made only on established fields.

BANANAS, Cercospora Musae (Sigatoka). Use 2.4 to 4.0 quarts, acre in sufficient volume, of water to cover all plant surfaces. Apply at 14 day intervals beginning at initial sign of disease. Crown Rot & Surface Molds (Fusamum, Gleosponium & Thielawopsis Species). Use 1.6 to 3.2 quarts. Use tive gallons of diste suspension per 100 trays of fruit as a post harvest spray to the fruit crowns following a water rinse spray or passage through a hydrocooler. Cut crowns may be dipped in the diffuse suspension.

**BEANS**, (Lima) Anthracnose & Downy Mildew: Use 1.2 to 1.6 quarts in sufficient water to obtain good coverage starting at first sign of disease. Repeat applications at 4 to 7 day intervals. Do not apply within 4 days of harvest.

**BEANS.** (Snap or String) Anthracnose. Downy Mildew & Rust. Use 1.2 to 1.6 quarts in sufficient water for good coverage. Begin applications when plants are small and repeat at 5 to 7 day intervals. **Do not apply within 4 days of harvest**.

BROCCOLI, Alternana Leaf Spot & Downy Mildew Use 1.2 to 1.6 quarts in sufficient water for good coverage starting application when diseases threaten Downy Mildew Begin applications in plant bed repeating at 3 day intervals, in field repeat at 7 to 14 day intervals, if applied within 3 days of hervest, the residue must be removed by thorough washing or trimming.

BRUSSELS SPROUTS, CAULIFLOWER & KOHLRABI, Aternaria Leaf Spot & Downy Mildow. Use 1.2 quarts per 100 gallons of water beginning with first signs of diseases. In plant bods, repeat applications on 3 day intervals and 7 to 10 day intervals in field.

CABBAGE, Alternaria Leaf Spot & Downy Mildow. Use 1.2 to 1.6 quarts in sufficient water starting 7 to 10 days after planting. Repeat applications at 3 to 5 day intenia's both in plantibled and field. Do not apply within 7 days of harvest.

CANTALOUPE, CASSABAS, CRENSHAWS, HONEYDEW MELONS, HONEY BALLS, MUSKMELONS, PERSIAN MELONS, Arthracrose, Cercospora Leaf Spot. Downy Middew & Gummy Stern Bight. Use 1.2 to 1.6 quarts per 100 galluns of water beginning at late bunching when vines start to run or when disease first threatens. Repeat at 7 to 10 day intervals.

CARROTS, Atternana & Cercospora Leaf Spots: Use 1,2 to 1,6 quarts per 100 gallons of water starting when plants are six weeks old and repeal at 7 to 10 day intenials.

CELERY, Early BI ght (Cercosporal) and Late Blight (Septoria). Use 1.2 to 1.6 quarts per 100 gallons of water beginning when plants emerge in plant beds and repeat at 3.1 of day intervals. When plants are set in field apply at 7 to 10 day intervals. Remove excess residue by stripping trimming and washing. Do not apply within 14 days of harvest.

CORN (Sweet: Helminthosporium Blight: Use 1.2 quarts per 100 gallons of water starting when plants are six inches high. Repeat applications at 4 to 7 day intervals until harvest. Do not feed treated forage to tivestock.

CRANBERRIES, Fruit Ruts (Guignardia, Sporonema & G'omeretta). (NEW JERSEY AND WISCONSIN) Use 1.6 quarts per 100 gallons of water starting after mid Exom Repeat after 10 to 14 days, again 28 days after mid bloom and again after 14 to 21 days, (MASSACHUSETTS) Use 1.6 to 2.4 quarts per 100 gallons of water starting at mid bloom Repeat at 10 to 14 day intervals for three applications. Twill Both COREGON AND WASHINGTON: Use 1.6 quarts per 100 gallons of water Apply 350 gallons of spray per acre. Make Instruptication after bloom and repeat between July 10 and 29. August 1 and 10, and August 10 and 25.

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CUCUMBERS, Alternaria (Macrosporium) Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildow, Pythium Fruit Rot. Use 1 2 to 1 6 quarts per 100 gallons of water starting when disease threatens or plants begin to run. Repeal at 7 to 10 day intervals or, under severe conditions, at 3 to 5 day intervals. Do not apply within 5 days of hervest.

EGGPLANT, Anthracnose, Early Blight (Alternaria), Phomopsis Blight or Fruit Rot use 1.2 to 1.6 quarts per 100 gallons of water. Start application when fruit starts to form and repeat at 7 to 10 day intervals.

FIGS (Kadota), Surface Molds and Rot (Alternana, Cladosporium Species) Use 0.6 quarts per 100 gallons of water. Make single application 10 to 20 days prior to harvest. Do not apply within 10 days of harvest.

GRAPES, Black Rot (GREAT LAKES AREAS) Use 1 2 to 1 6 quarts per 100 gallons of water Apply just prior to bloom and again 10 days later Do not apply later than 10 days after bloom. Alternatively, 1 4 quarts in sufficient water to cover one acre can be used as needed but do not apply within 7 days of hervest.

**LETTUCE, ENDIVE,** *Downy Mildew.* Use 1.2 to 1.6 quarts per 100 gallons of water starting with appearance of disease. Repeat at 7 to 10 day intervals but do not apply within 7 days of harvest. Remove residue from head lettuce by stripping and trimming and from leaf lettuce and endive by washing or other effective means.

NECTARINES. Brown Rot & Shot Hole. Use 1 2 to 1 6 quarts in 100 gations of water starting at red bud stage. Repeat in early bloom, full bloom, petal fail and at 7 to 14 day intervals up to 2 weeks prior to harvest. Do not apply within 14 days of harvest.

ONIONS, Botrytis Leaf Blight (Blast), Downy Mildew, Purple Blotch. Use 1.2 to 1.6 quarts per 100 gallions of water starting at first sign of disease. Repeat at 7 to 10 day intervals.

PAPAYAS, Anthracnose (Colletotricum) & Black Spot (Cercospora). Use 1.6 to 2.4 quarts in sufficient water (not less than 50 gallons) to cover per acre. Add 4.0 ounces of a suitable sticker spreader per 100 gallons of spray suspension Start applications when fruit is set repeating 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 in order to treat developing fruit.

PEACHES, Brown Rot, Scab & Shot Hole. Use 1 2 to 1 6 quarts in 100 gallons of water starting at red bud stage. Repeat in early bloom, full bloom, petal fall and at 7 to 14 day intervals up to 2 weeks prior to harvest. Do not apply within 14 days of harvest. Leaf Curl. Use 1 2 to 1 6 quarts per 100 gallons of water and apply in spring dormant period. Do not apply within 2 days of harvest and Wapplied within 14 days of harvest, remove residue by brushing.

PEPPERS, Anthrachose, Cercospora Leaf Spot (Frogeye Spot) & Ripe Rot Use 1.2 to 1.6 quarts in 100 gallons of water starting when disease threatens Repeat at 7 to 10 day in invals

**POTATOES**, Early & Late Blights. Use 1.2 to 1.6 quarts per 100 gallons of water Start applications when plants are 2 to 6 inches high. Repeat at 5 to 10 day intervals and more often under severe late blight conditions.

POTATOES (Seed Pieces). Fusarium Decay: Use 1.0 quart per 100 gations of water as dip for whole or cut tubers. Spread in cool place if held before planting. Use as seed piece treatment only. Do not use excess pieces for food or feed.

PUMPKINS, Angular Leaf Spot, Downy Mildew. Use 2.4 quarts per acre in sufficient water for good coverage or 1.2 to 1.6 quarts per 100 gallons of water. Begin when disease threatens and repeat at 7 to 10 day intervals.

RHUBARB (Greenhouse) (MiCHIGAN) Botrytis Leaf Rot. Use 1.6 quarts in 100 gallons of water. Starting four weeks before harvest, make 4 applications at 7 day intervals.

SPINACH, Downy Mildew (Blue Mold) & White Rust. Use 1.2 to 1.6 quarts per 100 gallons of water. Begin applications when disease appears and repeat at 7 to 10 day intervals. Do not apply within 7 days of harvest. Remove excess residue by washing.

SQUASH (Summer & Winter). Anthracnose & Downy Mildow. Use 1.2 to 1.6 quarts in 100 gailons of water beginning when plants start to run. Repeat applications on a 7 to 10 day schedule.

SUGAR BEETS. Cercospora Leaf Spot. Use 1.2 to 2.4 quarts in similar crent water per acre to cover. Start applications when disease threatens repeating on 7 to 10 day schedule for 3 to 5 applications. Do not apply within 14 days of harvest. Do not feed treated tops to fivestock.

**TOBACCO**, *Billio Mold*. Use 0.4 to 3.2 quarts in 100 gallons of water Apply 2.5 to 5.0 gallons of diluted suspension per 100 square yards of plantibled. Begin applications when disease threatens or when plantileazes are about 14 in in size. Repeat twice each week until plants are set in field. Use low rate in early applications and increase to 3.2 quarts as plant size increases.

(continued on back)

### **DIRECTIONS FOR USE (CONTINUED)**

TOMATOES (Greenhouse & Field). Cladosporium Leaf Mold. Early & Late Bights. Gray Leaf Spot (Sternphylium) & Septoria Leaf Spot Use 1.2 to 1.6 quarts in 100 gallons of water Begin applications at first fruit cluster and repeat on 7 to 10 day schedule. Anthracnose Use 2.4 quarts per 100 gallons of water starting with first fruit formation. Repeat on 7 to 10 day schedule. Do not apply within 5 days of harvest.

WATERMELONS, Anthracriose. Cercospora. Leaf Spot. Downy Mildew & Gummy Stem Blight. Use 1 2 to 1 6 quarts per 100 gallons of water beginning at late bunching when vines start to run or when disease first threatens. Repeat at 7 to 10 day intervals. Do not apply within 5 days of hervest.

#### ORNAMENTAL USES

CARNATIONS AND DAHLIAS, Alternana Leaf Spot. Anthracnose, Botrytis Blight Use 0 8 to 1 2 quarts per 100 gallons of water Begin when new growth starts. Repeat weekly

**DOGWOOD.** Anthracnose: Use 0.8 to 1.2 quarts per 100 gallons of water starting when buds open. Repeat application when bracts fall 4 weeks later and in late summer.

**GLADIOLUS**, Botrytis Blight, Curvulana and Stemphylium Leaf Spots. Use 1.2 quarts in 100 gallons of water Begin when flower spikes are developing. Repeat 2 or 3 times at weekly intervals.

GRASSES (Nongrazed Areas). Brown Patch: Use 4.8 fluid ounces in sufficient water to cover 1000 square feet. Begin at first sign of disease and repeat on 7 to

14 day schedule. Dollar Spot. Use 9.6 to 12.8 fluid ounces in sufficient water to cover 100 square feet. Begin applications at first sign of disease and repeation 7 to 14 day schedule. Melting: Dut. Use 4.8 to 6.4 fluid ounces in sufficient water to cover 1000 square feet. Start applications at first sign of disease and repeation 7 to 14 day schedule. Leaf. Stein and Stripe Rusts. Use 2.4 quarts in 100 gallons of water per acre. Start applications when rust pustules are first observed. Repeat at 7 to 14 day intervals. Do not graze treated area and do not feed of prings to fivestock.

LILIES, Botrytis Blight. Use 0.8 to 1.2 quarts per 100 gallons of water. Start application when new growth appears and repeat weekly.

PANSIES, Anthracriose: Use 0.8 to 1.2 quarts per 100 gallions of water. Start application when new growth appears and repeat weekly.

PEONIES, Alternaria Leaf Spot, Botrytis Blight and Phytophthora Blight. Use 0 8 to 1 2 quarts per 100 gallions of water Apply to foliage and soil in early spring and early fall.

ROSES, Black Spot, Cercospora Leaf Spot (TEXAS), Rust (CALIFORNIA) Use 0 8 to 1 2 quarts per 100 gallons of water beginning when first leaves unfold Repeat at 7 to 10 day intervals

SNAPDRAGONS, Rust. Use 0.8 to 1.2 quarts per 100 gallons of water. Begin applications with emergence and repeat weekly.

ZIMMAS, Alternaria Leaf Spot, Leaf Blights Use 0.8 to 1.2 quarts per 100 gallons of water Begin applications at emergence and continue on weekly schodule

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KOCIDE CHEMICAL CORPORATION
HOUSTON TEXAS 77045

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Griffin Corporation P.O. Box 1847 Valdosta, GA 31601

Attention: L. C. Plliott

Gentlemen:

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Subject: Kocide Maneb
EPA Registration No. 8901-26
Your Letter Dated May 14, 1984

The alternate formulation submitted on the above date is acceptable. The formulation as shown on the Confidential Statement of Formula dated May 14, 1984, nullifies all other formulations for the product registration and only the May 14, 1984, formulation can be marketed. Also, find enclosed a stamped copy of the label. The 28.75% active ingredient label is the only percent active ingredient product that can be sold under EPA Registration Number 8901-26.

Submit five (5) copies of the final printed label before shipment. Include the following on the final label:

1. In the Environmental Hazard Statement add "on wetlands" to "Do not apply directly to water or wetlands."

Sincerely yours,

BEST DOCUMENT AVAILABLE

Henry M. Jacoby Product Manager (21) Fungicide-Herbicide Branch Registration Division (TS-767)

Enclosure

RD-FHR: DCR-17089: Jacoby: mar: Raven: 557-2226: PD-38:6/12/84: Del.6/29/84

CONCURRENCES

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OFFICIAL FILE