



KOCIDE CHEMICAL CORPORATION
HOUSTON, TEXAS 77041

Kocide[®] MANEB

ACTIVE INGREDIENT
MANEB (MANGANESE
ETHYLENEBISDITHIO
CARBAMATE)..... 71.25%
INERT INGREDIENTS

(METALLIC MANGANESE
EQUIVALENT..... 7.6%)5.9%

KEEP OUT OF REACH
OF CHILDREN
CAUTION
HARMFUL IF SWALLOWED.
KEEP AWAY FROM FIRE
AND SPARKS.

EPA REG. NO. 8901-26

FLOWABLE
AGRICULTURAL
FUNGICIDE
WITH ADDED ZINC

2½ GALLONS

SEE BACK PANEL FOR ADDITIONAL CAUTIONS

REGISTERED
with EPH-1000
in EPA Reg. 1000

APR 11 1984

U.S. DEPT. OF AGRICULTURE

BEST DC

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS

ALMONDS, Brown Rot Blight (Blossom to 16 quarts per 100 gallons of water. A fall stages or every 7 to 10 days during (Shot Hole). Use 1 2 to 16 quarts beginn 7 to 10 day intervals through petal fall. D petal fall.

APPLES. *Britter Rot, Black Rot (Fruit & Bullseye Rot, Cedar Apple Rust, Flyspeck)* 16 quarts per 100 gallons of water plus sprays at pre-bloom, calyx or first cover stage to 14 day intervals as needed.

APRICOTS, Brown Rot (Blossom, Twig) 100 gallons of water starting at red bud stage, petal fall and at 7 to 14 day intervals as **weeks of harvest.** **Jackel (Green) Rot** water at full bloom and petal fall. **Coryne** per 100 gallons of water from dormant till **Do not apply within 14 days of harvest.**

ASPARAGUS, Rust. Use 2-4 quarts in established fields, begin application immediately as long as rust persists. In start application when disease appears. harvest application to be made only on e

BANANAS, *Cercospora Musae* (Sigatoka) Sufficient volume of water to cover all plants, beginning at initial sign of disease. ***Croton* *Gleosporium* & *Thielaviopsis* Species)** 1:1 dilute suspension per 100 trays of fruit as following a water rinse spray or passage; be dropped in the dilute suspension.

BEANS, (Lima) Anthracnose & Downy
 cient water to obtain good coverage st
 applications at 4 to 7 day intervals. Do not

BEANS, (Snap or String) Anthracnose.
quarts in sufficient water for good coverage
small and repeat at 5 to 7 day intervals D

BROCCOLI, *Altemana* Leaf Spot & Downy Mildew Begin applications in plant bed, repeat at 7 to 14 day intervals. If a residue must be removed by thorough

BRUSSELS SPROUTS, CAULIFLOWER
& Downy Mildew Use 1.2 quarts per 10
signs of diseases. In plant beds, repeat
10 day intervals in field.

CABBAGE, Alternaria Leaf Spot & Downy Mildew: Apply sufficient water starting 7 to 10 days after planting and at 7 day intervals both in plant bed and field.

**CANTALOUPE, CASSABAS, CREW
HONEY BALLS, MUSKMELONS, PER**
spora Leaf Spot. Downy Mildew & Gum
per 100 gallons of water beginning at la
when disease first threatens. Repeat at 1

CARROTS. *Alternaria* & *Cercospora* Le galions of water starting when plants are intervals

CELERY, Early Blight (*Cercospora*) and quarts per 100 gallons of water beginning repeat at 3 to 5 day intervals. When plants are in full leaf, repeat at 7 to 10 day intervals. Remove excess residue by spraying with water within 14 days of harvest.

CORN (Sweet) *Helminthosporium* B'g
water starting when plants are six inches
intervals until harvest. Do not feed treated

CRANBERRIES. *Fruit Rots* (*Gignard*)
JERSEY AND WISCONSIN) Use 1 6 q
after mid-bloom Repeat after 10 to 14 da
again after 14 to 21 days (MASSACHU
gations of water starting at mid-bloom R
applications *Twig Blight* (*Lophodermium*
WASHINGTON) Use 1 6 quarts per 1000
spray per acre Make first application af
and 20 August 1 and 10 and August 10

DIRECTIONS FOR USE AS A SPRAY

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

1957 1000

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DIRECTIONS FOR USE (CONTINUED)

ALMONDS. *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, Black Rot (Fruit & Foliage), Botryosphaeria (White Rot), Bullseye 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, calyx or first cover stage followed by repeat applications at 7 to 14 day intervals as needed.

APRICOTS. *Brown Rot (Blossom, Twig & Fruit).* Use 1.2 to 1.6 quarts per 100 gallons 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.** *Jackel (Green) Rot.* Apply 1.6 quarts per 100 gallons of water at full bloom and petal fall. *Coryneum Blight (Shot Hole).* Apply 1.6 quarts per 100 gallons of water from dormant 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 gallons 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 (Fusarium, Gloeosporium & Thielaviopsis Species).* Use 1.6 to 3.2 quarts. Use five gallons of dilute 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 dilute suspension.

BEANS. (Lima) *Anthrachnose & 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) *Anthrachnose, 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. *Alternaria 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 harvest, the residue must be removed by thorough washing or trimming.**

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

CABBAGE. *Alternaria Leaf Spot & Downy Mildew.* Use 1.2 to 1.6 quarts in sufficient water starting 7 to 10 days after planting. Repeat applications at 3 to 5 day intervals both in plant bed and field. **Do not apply within 7 days of harvest.**

CANTALOUPE, CASSABAS, CRENSHAW, HONEYDEW MELONS, HONEY BALLS, MUSKMELONS, PERSIAN MELONS. *Anthrachnose, 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.

CARROTS. *Alternaria & Cercospora Leaf Spots.* Use 1.2 to 1.6 quarts per 100 gallons of water starting when plants are six weeks old and repeat at 7 to 10 day intervals.

CELERY. *Early Blight (Cercospora) 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 to 5 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) *Helmintosporium 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 livestock.

CRANBERRIES. *Fruit Rots (Guignardia, Sporophoma & Glomerella) (NEW JERSEY AND WISCONSIN).* Use 1.6 quarts per 100 gallons of water starting after mid bloom. 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. *Twig Blight (Lophodermium).* *Fruit Rots (OREGON AND WASHINGTON).* Use 1.6 quarts per 100 gallons of water. Apply 350 gallons of spray per acre. Make first application after bloom and repeat between July 10 and 20, August 1 and 10, and August 10 and 25.

CUCUMBERS. *Alternaria (Macrosporium) Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildew, Pythium Fruit Rot.* Use 1.2 to 1.6 quarts per 100 gallons of water starting when disease threatens or plants begin to run. Repeat at 7 to 10 day intervals or, under severe conditions, at 3 to 5 day intervals. **Do not apply within 5 days of harvest.**

EGGPLANT. *Anthrachnose, 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 (Alternaria, 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 harvest.**

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 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.**

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

PAPAYAS. *Anthrachnose (Colletotrichum) & 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 if applied within 14 days of harvest, remove residue by brushing.**

PEPPERS. *Anthrachnose, Cercospora Leaf Spot (Frog-eye 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 intervals.

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 gallons 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) *Anthrachnose & Downy Mildew.* Use 1.2 to 1.6 quarts in 100 gallons 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 sufficient water per acre to cover. Start applications when disease threatens repeat 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 livestock.

TOBACCO. *Blue 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 plant bed. Begin applications when disease threatens or when plant leaves are about 1 1/2 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)

BACK LABEL—3

DIRECTIONS FOR USE (CONTINUED)

TOMATOES (Greenhouse & Field). *Cladosporium Leaf Mold*, *Early & Late Blights*, *Gray Leaf Spot (Stemphylium)* & *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. *Anthraco*se. 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, *Anthraco*se, *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 harvest.**

ORNAMENTAL USES

CARNATIONS AND DAHLIAS, *Alternaria Leaf Spot*, *Anthraco*se, *Botrytis Blight*. Use 0.8 to 1.2 quarts per 100 gallons of water. Begin when new growth starts. Repeat weekly.

DOGWOOD, *Anthraco*se. 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*, *Curvularia* 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 repeat on 7 to 14 day schedule. *Melting-Out*. Use 4.8 to 6.4 fluid ounces in sufficient water to cover 1000 square feet. Start applications at first sign of disease and repeat on 7 to 14 day schedule. *Leaf, Stem 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 clippings to livestock.

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, *Anthraco*se. Use 0.8 to 1.2 quarts per 100 gallons 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 gallons 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.

ZINNIAS, *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 schedule.

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KOCIDE CHEMICAL CORPORATION
HOUSTON TEXAS 77045

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JUL 11 1984

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

Attention: L. C. Elliott

Gentlemen:

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,

H. J.

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

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Enclosure

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

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

EPA Form 1320-1 4-81

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