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9/14/2001

1/44



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SEP 14 2001

Dr. W.A. Hawkins, Jr.
Griffin LLC
P.O. Box 1847
Valdosta, Georgia 231603-1847

Subject: Kocide® 2000
EPA Registration No. 1812-358
Your label amendment application dated May 25, 2001,
incorporating the revised page 1 dated August 17, 2001

Dear Dr. Hawkins,

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

1. Make the following changes to the label:

a. Immediately after the subheading "PERSONAL PROTECTIVE EQUIPMENT (PPE)" insert the following text:

"Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection sheet."

b. In the "PERSONAL PROTECTIVE EQUIPMENT (PPE)" subsection and the "AGRICULTURAL USE REQUIREMENTS" section, change "waterproof gloves" to "chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber, or butyl rubber."

2. Submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration may be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

2/44

If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,



Cynthia L. Giles-Parker
Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Attachment: Label stamped "ACCEPTED with COMMENTS"

3/44

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KOCIDE® 2000

g358s01b

DRY FLOWABLE

FUNGICIDE/BACTERICIDE

| | |
|-------------------|--------|
| Active Ingredient | |
| Copper Hydroxide* | 53.8% |
| Inert Ingredients | 46.2% |
| Total | 100.0% |

(* Metallic Copper Equivalent 35%)

KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle
(If you do not understand the label, find someone to explain it to you in detail).

ACCEPTED
 with COMMENTS
 In EPA Letter Dated:
 SEP 14 2001
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under EPA Reg. No.
 1812-358

| FIRST AID | |
|--|--|
| IF IN EYES: | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| IF SWALLOWED: | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-888-324-7598. | |
| NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage. | |
| See Label for Additional Precautions and Directions for use. | |

Griffin L.L.C.
Valdosta, GA 31601

EPA Reg. No. 1812-358
EPA Est. No.

Net Contents _____



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
WARNING - AVISO**

Causes substantial but temporary eye injury. Harmful if swallowed, absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water by disposal of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours without required PPE.

The following equipment and precautions must be followed for 7 days following the application of this product:

- An eye-flush container, designed specifically for flushing eyes, must be available at the WPS decontamination site for workers entering the area treated with copper hydroxide.
- Notify workers of the application by warning them orally that residues in the treated areas may be highly irritating to their eyes and to take precautions such as refraining from rubbing their eyes and if they get residues in their eyes they should immediately flush their eyes using the eye-flush container.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated area until sprays have dried.

6/44

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry place.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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.

GENERAL INSTRUCTIONS

Kocide 2000 may be applied as an aerial, ground dilute or ground concentrate spray unless specifically directed otherwise in the specific crop use directions.

The per acre use rate of Kocide 2000 is applicable for both dilute and concentrate spraying. Depending upon the equipment used and the specific crop, the spray volume applied per acre will differ. Refer to Minimum Recommended Spray Volume Table. Complete spray coverage is essential to assure optimum performance from Kocide 2000. When treating by aerial application or with low volume application equipment, unless you have had specific previous experience, it is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial utilization.

Consult the Kocide 2000 label for specific rates and timing of application by crop. ~~Do not apply less than the label recommended minimum amount when selecting a Kocide 2000 use rate.~~ Where application rates and intervals are provided in a range (e.g. 4 to 12 pounds and 7 to 10 days), ~~the~~ higher rates and shorter ~~spray~~ intervals are recommended when rainfall is heavy and/or disease pressure is high. Use the higher rates for large mature tree crops.

SPECIAL PRECAUTIONS

- * Kocide 2000 **should not be applied** in a spray solution having a pH of less than 6.5 as phytotoxicity may occur.
- * Do not tank mix Kocide 2000 with Aliette® fungicide for use on any registered crops or ornamentals unless appropriate precautions have been taken to buffer the spray solution because severe phytotoxicity may result. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such

7/44

mixing.

- * This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.
- * Environmental conditions such as extended periods of wet weather, acid rain, etc. which alter the pH of the leaf surface may affect the performance of Kocide 2000 resulting in possible phytotoxicity or loss of effectiveness.
- * Agricultural chemicals may perform in an unpredictable manner when tank mixed, especially where several products are involved. Reduced effect on pests or crop injury may occur. Unless recommended on this label or by a state/local expert, it is advisable to test for compatibility and potential crop injury prior to commercial use of a new tank mix; otherwise, tank mixing should not be undertaken.
- * It must be determined if proper application equipment is available and if waste associated with its use can be properly handled. Agricultural chemicals are often reactive with the materials used in the construction of application equipment, such as aluminum, rubber and ~~some~~ synthetic materials. This factor should be taken into consideration when selecting proper application equipment. It is necessary that all application equipment be thoroughly flushed with clean water after each day's use.
- * Do not apply this product through any irrigation (chemigation) system using aluminum parts or components as damage to the system may occur. Such application is prohibited regardless of whether the irrigation system is flushed with water after use of this product.
- * Apply this product only through one or more of the following types of systems: sprinkler, including center pivot, lateral move, traveler, big gun, or plastic pipe solid set system(s) which contain no aluminum parts or components. Do not apply this product through any other type of irrigation system.
- * While volume is important in obtaining full spray coverage, often factors such as foliage density, environmental conditions and sprayer calibration have a greater impact. Always be sure that sprayers are calibrated to spray equipment manufacturer's specifications and environmental conditions are within those recommended by State and local regulatory authorities.
- * When mixing, fill ~~the~~ spray tank one-half full with water. Add Kocide 2000 slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. **DO NOT PRE-MIX or SLURRY Kocide 2000.** Spreaders, stickers, insecticides, nutrients, etc. should be added last. If compatibility is in question, use the Compatibility Jar Test before mixing a whole tank or contact your chemical supplier. Observe all precautions and limitations on the labels of all products used in mixtures.

8/44

CROP CLASSIFICATION

CITRUS: Grapefruit, Kumquat, Lemon, Lime, Orange, Pummelo, Tangelo and Tangerine.

CONIFERS: Douglas Fir, Fir, Juniper, Leyland Cypress, Pine and Spruce.

FIELD CROPS: Alfalfa, Barley, Oats, Peanut, Potato, Sugar Beet and Wheat.

SMALL FRUITS: Blackberry, Blueberry, Cranberry, Currant, Gooseberry, Raspberry and Strawberry.

TREE CROPS: Almond, Apple, Apricot, Avocado, Banana, Cacao, Cherry, Coffee, Filbert, Mango, Nectarine, Olive, Peach, Pear, Pecan, Pistachio, Plum, Prune, Quince and Walnut.

VEGETABLES: Bean, Beet, Beet Greens, Broccoli, Brussels Sprout, Cabbage, Cantaloupe, Carrot, Cauliflower, Celery, Celery, Cucumber, Eggplant, Endive, Escarole, Greens (Collard, Mustard and Turnip), Honeydew, Lettuce, Muskmelon, Onion/Garlic, Pea, Pepper, Pumpkin, Spinach, Squash, Tomato, Watercress and Watermelon.

VINES: Grape, Hops and Kiwi.

MISCELLANEOUS: Atemoya, Carambola, Chives, Dill, ~~Douglas Fir~~, Ginseng, Guava, Litchi, ~~Live Oak~~, Macadamia, Mamey Sapote, Papaya, Parsley, Passion Fruit, Pecan, Sugar Apple and Sycamore.

GREENHOUSE AND SHADEHOUSE CROPS: Kocide 2000 may be used in greenhouses and shadehouses to control diseases on any crop on this label where physiology allows greenhouse or shadehouse culture. While specific directions are presented for Citrus, Cucumber, Eggplant, Pepper and Tomato; general use may occur for any crop on this label where physiology allows greenhouse or shadehouse culture.

TURFGRASS: Algae control.

ORNAMENTALS: Species as listed.

9/44

Minimum Recommended Spray Volume (Gallons Per Acre)
When Applying Kocide 2000

| | Aerial | Ground | |
|---------------|--------|--------|-------------------|
| | | Dilute | Concentrate |
| Citrus | 10 | 800 | 100* (Florida) |
| Conifers | 10 | 100 | 30 |
| Field Crops | 3 | 20 | --- |
| Ornamentals | 10 | 100 | 50 |
| Small Fruits | 5 | 150 | 50 |
| Tree Crops | 10 | 400 | 50 |
| Vegetables | 3 | 20 | --- |
| Vines | 5 | 150 | 50 |
| Miscellaneous | 10 | 150 | 50 |

*Pesticide application equipment such as Curtec® or other similar sprayers which are capable of obtaining thorough coverage at low volumes may be used at as low as 20 gpa gallons per acre of spray volume.

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

FROST INJURY PROTECTION

BACTERIAL ICE NUCLEATION INHIBITOR

Application of Kocide 2000 made to all crops listed on this label at rates and stages of growth indicated on this label, at least 24 hours prior to anticipated frost conditions, will afford control of ice nucleating bacteria (*Pseudomonas syringae*, *Erwinia herbicola*, and *Pseudomonas fluorescens*) and may therefore provide some protection against light frost. Not recommended for those geographical areas where weather conditions favor severe frost.

CITRUS

Kocide 2000 may be mixed with dry foliar nutritionals (micronutrients) to create "Shot Bag" mixes to meet the various nutritional requirements of citrus and provide disease protection as described on this label. Kocide 2000 per acre rates in these mixes must not exceed the maximum recommended labeled rates for disease control.

Adding foliar nutritionals or other products to spray mixtures containing Kocide 2000 and

10/44

applying to citrus during the post bloom period when young fruit are present may result in spray burn.

| <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
|--|------------------|---|
| Algal Spot, Melanose, Scab | 3-9 lbs. | Apply as pre-bloom and post-bloom sprays. Use the higher rates when conditions favor disease. |
| Greasy Spot, Pink Pitting | 1.5-4.5 lbs. | Apply in summer on expanded new flush. Repeat on subsequent flushes where disease pressure is severe. Use <u>the</u> higher rates when conditions favor disease. |
| Alternaria Brown Spot | 3-6 lbs. | On susceptible varieties apply when the first spring flush appears and each flush thereafter. Application to fruit should start after two thirds of the petals have fallen and be repeated on a 21 day schedule or as needed. Use <u>the</u> higher rates when conditions favor disease. |
| Phytophthora Brown Rot, Septoria Spot | 3-6 lbs. | Begin application in fall before or just after the first rain and continue as needed. For Brown Rot only, apply to skirts of trees to a height of at least 4 feet. For control of Septoria Spot or where fruit have already been infected with Brown Rot, apply to entire tree. Apply also to bare ground one foot beyond skirt. Use <u>the</u> higher rates when conditions favor disease. |
| Phytophthora Foot Rot | 0.75 lb. | Mix with 1 quart of water, Tre-Hold® or latex paint. Paint trunks of trees from the soil surface to the lowest scaffold limbs. Apply in May prior to summer rains and/or in the fall prior to wrapping trees for freeze protection. Treatment serves as protection for up to 1 year, but does not cure existing infections. |

NOTE: In California, in areas subject to copper injury, add 1/3 to 1 pound of high quality lime per pound of Kocide 2000 .

NOTE: Areas where microjet or low volume

11/44

irrigation hit the tree trunk may require retreatment due to wash off.

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| Citrus Canker (suppression) | 9 lbs. | Spray flushes 7 to 14 days after shoots begin to grow. Young fruit may require an additional application. Number and timing of applications will be dependent upon disease pressure. Under heavy pressure, each flush of new growth should be sprayed. |
|--------------------------------|--------|--|

NOTE: Phytotoxicity may occur on young tender flush when Kocide 2000 is applied to citrus seedlings grown in greenhouses or shadehouses.

CITRUS
Field Nursery Grown

To control Melanose, Scab, Pink Pitting, Greasy Spot, Brown Rot and for suppression of Citrus Canker, apply 3 to 6 pounds of Kocide 2000 per acre. Apply Kocide 2000 at 28 day intervals or as needed depending on disease severity.

FIELD CROPS

| <u>Crop</u> | <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
|-------------|---|------------------|---|
| Alfalfa | Cercospora Leaf Spot, Leptosphaerulina Leaf Spot | 1.5 lbs. | Apply 10 to 14 days before each harvest or earlier if disease threatens. NOTE: Spray injury may occur with sensitive varieties such as Lahontan. |
| Peanut | Cercospora Leaf Spot | 1-2.25 lbs. | Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat at 10 to 14 day intervals or as needed. Reduce sprays to 7 day intervals during humid weather. Use <u>the</u> higher rates when conditions favor disease. Flowable sulfur may be added. |
| Potato | Early Blight, Late Blight | 0.75-3 lbs. | Apply 0.75 to 1.25 lbs. at 7 to 10 day intervals or as needed starting when plants are 2 to 6 inches high in locations where disease is light. |

12/44

Apply up to 3 pounds per acre when disease is more severe. Under conditions of severe disease, control with Kocide 2000 will be improved by tank mixing with other compatible fungicides registered for use on potatoes. Read and follow all label instructions of tank mix partners.

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| Sugar Beet | Cercospora Leaf Spot | 1.5-3.75 lbs. | Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals or as needed. Use the higher rates when conditions favor disease. Addition of a spreader/sticker is recommended. |
| Wheat, Barley, Oats | Helminthosporium Spot Blotch, Septoria Leaf Blotch | 1-1.5 lbs. | Make first application at early heading and follow with second spray 10 days later. Use the higher rates when conditions favor disease. |

SMALL FRUITS

| <u>Crop</u> | <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
|--|---|------------------|---|
| Blackberry (Aurora, Boysen, Cascade, Chehalem, Logan, Marion, Santiam, Thornless Evergreen) | Anthracnose, Cane Spot, Leaf Spot, Pseudomonas Blight, Purple Blotch, Yellow Rust | 3 lbs. | Make fall application after harvest. Apply delayed dormant spray after pruning/training in the spring. If needed, agricultural-type spray oil may be added. |
| | Anthracnose, Cane Spot, Leaf Spot, Purple Blotch, Yellow Rust | 1.5 lbs. | Apply when leaf buds begin to open and repeat when flower buds show white. If needed, agricultural-type spray oil may be added. |

NOTE: Crop injury may occur if applied to foliage under certain environmental conditions such as hot

13/AA

or prolonged moist periods.
Discontinue applications if signs of
crop injury appear.

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|------------------------|--|----------|--|
| Blueberry | Bacterial Canker | 3-6 lbs. | Make first application before fall rains and a second application 4 weeks later. Use the higher rates when conditions favor disease. |
| | Fruit Rot, Phomopsis Twig Blight | 2-4 lbs. | Dormant Application: Begin applications when bloom buds begin to swell. Make additional applications at 10 to 14 day intervals or as needed before blooms open. |
| Cranberry | Fruit Rot | 6 lbs. | Make first application in late bloom. Apply one or two additional applications at 10 to 14 day intervals or as needed depending on disease severity. |
| | Rose Bloom | 6 lbs. | Apply three sprays on 10 to 14 day schedule or as needed as soon as symptoms are observed. |
| | Bacterial Stem Canker | 6 lbs. | Apply post harvest and again in spring at bud swell. Apply one or two additional applications at 10 to 14 day intervals or as needed depending on disease severity. |
| | Leaf Blight, Red Leaf Spot, Stem Blight, Tip Blight (<i>Monilinia</i>) | 6 lbs. | Apply delayed dormant spray in the spring. Repeat at 10 to 14 day intervals or as needed through pre-bloom. |
| Currant, Gooseberry | Anthraco-nose, Leaf Spot | 7.5 lbs. | Make initial application after first leaves have expanded. Continue on a 10 to 14 day schedule or as needed during wet conditions in the spring. Make an additional application after harvest. |

| | | | |
|-----------|---|--------|---|
| Raspberry | Anthracnose, Cane Spot, Leaf Spot, Pseudomonas Blight, Purple Blotch, Yellow Rust | 3 lbs. | Make fall application after harvest. Apply delayed dormant spray after training in the spring. If needed, agricultural-type spray oil may be added. |
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|--|---|----------|---|
| | Anthracnose, Cane Spot, Leaf Spot, Purple Blotch, Yellow Rust | 1.5 lbs. | Apply when leaf buds begin to open and repeat when flower buds show white. If needed, agricultural-type spray oil may be added. |
|--|---|----------|---|

NOTE: Crop injury may occur if applied to foliage under certain environmental conditions such as hot or prolonged moist periods. Discontinue applications if signs of crop injury appear.

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|------------|---|---------------|---|
| Strawberry | Angular Leaf Spot (<i>Xanthomonas</i>), Leaf Blight, Leaf Scorch, Leaf Spot | 1.5-2.25 lbs. | Begin application when plants are established and continue on a weekly schedule throughout the season. Apply in at least 20 gallons of water. Use the higher rates when conditions favor disease. |
|------------|---|---------------|---|

NOTE: Discontinue applications if signs of crop injury appear.

TREE CROPS

| <u>Crop</u> | <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
|--|---|------------------|---|
| Almond, Apricot, Cherry, Plum, Prune | Bacterial Blast (<i>Pseudomonas</i>), Bacterial Canker, Coryneum Blight (Shot Hole) | 6-12 lbs. | Make first application before fall rains and a second at late dormant. Use the higher rates when conditions favor disease. If needed, agricultural-type spray oil may be added. |

For Cherries: Where disease is severe, an additional application

shortly after harvest may be required.

Almond Only: For Bacterial Blast control in sprinkler irrigated orchards or where disease is severe, apply 0.75 pounds per acre post-bloom at 2 week intervals or as needed or just before sprinkling.

NOTE: Foliar injury may occur from post-bloom sprays on almonds, especially on NePlus varieties.

Blossom Brown Rot, Coryneum Blight (Shot Hole) 4.5-6 lbs. (Almond) 6-9 lbs. (All Others)

Apply during early bloom. Do not apply after full bloom or injury may result. Use ~~the~~ higher rates when rainfall is heavy and disease pressure is high.

Black Knot (Plum) 3-6 lbs

Make an application at bud swell up to early bloom for early season disease suppression. Apply before full bloom. Use ~~the~~ higher rates when rainfall is heavy and disease pressure is high.

NOTE: To avoid plant injury, do not use after full bloom.

Cherry Leaf Spot (Sour Cherries Only) 4-6 lbs.

Apply at petal fall as well as 1 to 2 times after petal fall. Use ~~the~~ lower rates where disease infection is light and use ~~the~~ higher rates for a dormant application or where disease infection is moderate to heavy. Do not apply to sweet cherry or the English Morello variety as severe injury will result. The addition of 1 to 3 pounds of hydrated lime per pound of Kocide 2000 may reduce crop injury.

16/44

Apple

Anthracnose,
Blossom Blast,
European Canker
(*Nectria*),
Shoot Blast
(*Pseudomonas*)

9-12 lbs.

NOTE: Moderate to severe injury such as leaf spotting and defoliation may occur from post-bloom applications.

Apply before fall rains. Use the higher rates when conditions favor disease.

NOTE: Use on yellow varieties may cause discoloration. To avoid discoloration, pick before spraying.

Apple Scab,
Fire Blight

6-12 lbs.

Make application between silver-tip and green-tip. Apply as a full cover spray for early season disease suppression.

NOTE: Moderate to severe crop injury may occur from late application; discontinue use when green-tip reaches 1/2 inch.

Extended spray schedule where fruit finish is not a concern:

Apple Scab

1.5-3 lbs.

Continued applications may be made at 5 to 7 day intervals or as needed between 1/2 inch green-tip and first cover spray.

Fire Blight

0.75-1.5 lbs.

NOTE: Moderate to severe crop injury may result from this extended spray schedule. It is not intended for fresh market apples or for apples where fruit finish is a concern as it is likely to cause fruit russetting. The addition of 1 to 3 pounds of hydrated lime per pound of Kocide 2000 may reduce crop injury.

| | | | |
|---------|-----------------------------------|--------------|---|
| | Collar Rot, Crown Rot | 3 lbs. | Mix in 100 gallons of water. Apply 4 gallons of suspension as a drench on the lower trunk area of each tree. Apply in early spring or in fall after harvest for best results. Do not apply to foliage or fruit. |
| | | | NOTE: Do not use if soil pH is below 5.5 since copper toxicity may result. |
| Avocado | Anthracoese, Blotch, Scab | 6-9 lbs. | Apply when bloom buds begin to swell and continue application at monthly intervals for five to six applications. Use the higher rates when conditions favor disease. |
| Banana | Sigatoka (Black and Yellow) | 1.5 lbs. | Apply by air in 3 gallons of water. If needed, agricultural-type spray oil may be added. Apply on a 14 day schedule or as needed throughout the wet season. Apply at 21 day intervals or as needed during dry periods. |
| | Black Pitting | 3 lbs. | Mix in 100 gallons of water. Apply to the fruit stem and the basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence. |
| Cacao | Black Pod | 1.5-6.5 lbs. | Begin applications at the start of the rainy season and continue while infection conditions persist. Apply 1.5 to 3.5 lbs. at 14 to 21 day intervals or as needed depending on disease severity. For drier areas, make two to four applications using 4.5 to 6.5 pounds per acre according to disease incidence and planting density. |
| Coffee | Coffee Berry | 4.5-6 lbs. | Apply first spray after flowering and |

18/44

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|---------|---|------------|---|
| | Disease (<i>Colletotrichum coffeanum</i>) | | before onset of long rains and then at 21 to 28 day intervals or as needed until picking. Use the higher rates when conditions favor disease. |
| | Bacterial Blight (<i>Pseudomonas syringae</i>) | 4.5-6 lbs. | Begin spray program before the onset of long rainy periods and continue throughout the rainy season at 14 to 21 day intervals or as needed. The critical time for spraying to control this disease is just before, during and after flowering(s), especially when coinciding with wet weather. Use the higher rates when rainfall is heavy and disease pressure is high. |
| | Leaf Rust (<i>Hemileia vastatrix</i>) | 1.5-3 lbs. | Apply before the onset of rain and then at 21 day intervals or as needed while the rains continue. Use the higher rates when rainfall is heavy and disease pressure is high. |
| | Iron Spot (<i>Cercospora coffeicola</i>), Pink Disease (<i>Corticium salmonicolor</i>) | 1.5 lbs. | Use concentrate or dilute spray. Begin treatment at the start of wet season and continue at monthly intervals for three applications. |
| Filbert | Bacterial Blight | 12-18 lbs. | Apply as a post harvest spray. In seasons of heavy rainfall, apply a second spray when three-fourths of the leaves have dropped. Use the higher rates when rainfall is heavy and disease pressure is high. If needed, agricultural-type spray oil may be added. |
| | Eastern Filbert Blight | 12-18 lbs. | Apply as a dilute spray in adequate water for thorough coverage. Make applications starting at bud swell to bud break and continue at 2-week |

19/44

intervals or as needed until early May. Thorough coverage is essential. Use the higher rates when rainfall is heavy and disease pressure is high. If needed, agricultural-type spray oil or sticking agent may be added.

Mango Anthracnose 6-7.5 lbs. Apply monthly after fruit set until harvest. Use the higher rates when rainfall is heavy and disease pressure is high.

Olive Olive Knot, Peacock Spot 6-9 lbs. Make first application before winter rains begin. A second application in early spring should be made if disease is severe. Apply the higher rates for heavy disease pressure or when conditions favor disease development.

Peach, Nectarine Bacterial Blast (*Pseudomonas*), Bacterial Canker, Bacterial Spot (*Xanthomonas*), Coryneum Blight (Shot Hole), Leaf Curl 6-12 lbs. Make first application before fall rains and a second at late dormant. For peach leaf curl, late dormant application must be made before leaf buds swell. Use the higher rates when rainfall is heavy and disease pressure is high. If needed, agricultural-type spray oil may be added.

Blossom Brown Rot, Coryneum Blight (Shot Hole), Leaf Curl 6-9 lbs. Full cover spray at pink bud. Use the higher rates when conditions favor disease.

Bacterial Spot 0.75 lb. Post-bloom application applied at first and second cover sprays.

NOTE: Do not spray 3 weeks prior to harvest. Use only recommended rates. Spotting of leaves and

defoliation may occur from use in cover sprays.

Pear Fire Blight 0.75 lb. Apply at 5 day intervals or as needed throughout the bloom period.

NOTE: Russetting may occur in copper sensitive varieties. Excessive dosages may cause fruit russet on any variety.

Blossom Blast (Pseudomonas) 9-12 lbs. Apply before fall rains and again during dormancy before spring growth starts. Use the higher rates when disease pressure is high or when conditions favor disease development.

Pecan Kernel Rot, Shuck Rot (Phytophthora cactorum), Zonate Leaf Spot (Cristulariella pyramidalis) 1.5-3 lbs. For suppression, apply in sufficient water to ensure complete spray coverage at 2 to 4 week intervals or as needed, starting at kernel growth and continue until shucks open. Use the higher rates and shorter spray intervals if frequent rainfall occurs.

Ball Moss, Spanish Moss 4.5-6 lbs. Apply in 100 gallons of water in the spring when ball moss is actively growing, using 1 1/2 gallons of spray per foot of tree height. Make sure to wet ball moss tufts thoroughly. The addition of a non-toxic surfactant will improve control. A second application may be required after 12 months.

Pistachio Botryosphaeria Panicle and Shoot Blight, Botrytis Blight, Late Blight (Alternaria alternata), 3-6 lbs. Make initial application at bud swell and repeat on a 14 to 28 day schedule or as needed. If disease conditions are severe, use the higher rates and shorter spray intervals.

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| | Septoria Leaf Blight | | |
| Quince | Fire Blight | 0.75 lb. | Apply at 5 day intervals or as needed throughout the bloom period. Apply in adequate water for thorough coverage. |
| Walnut | Walnut Blight | 6-9 lbs. | Apply first spray at early pre-bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage or as needed when frequent rainfall or extended periods of moisture occur. Thorough coverage of catkins, leaves and nutlets is essential for effective control. |
| <p>NOTE: Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present.</p> | | | |

VEGETABLES

| <u>Crop</u> | <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
|--------------------------------------|--|------------------|---|
| Bean (Dry, Green) | Brown Spot, Common Blight, Halo Blight | 0.75-2.25 lbs. | For protective sprays, make first application when plants are 6 inches high; repeat on a 7 to 14 day schedule or as needed depending on environmental conditions. Use the higher rates for more severe disease. |
| Beet (Table Beet, Beet Greens) | Cercospora Leaf Spot | 1.5-3.75 lbs. | Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals or as needed. Use the higher rates when conditions favor disease. |
| Carrot | Alternaria Leaf Spot, | 1.5 lbs. | Begin applications when disease first threatens and repeat at 7 to 14 day |

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| | Cercospora Leaf Spot | | intervals or as needed depending on disease severity. |
| Celery, Celeriac | Bacterial Blight, Cercospora Early Blight, Septoria Late Blight | 1.5 lbs. | Begin applications as soon as plants are first established in the field, repeating at 5 to 7 day intervals or as needed depending on disease severity and environmental conditions. |
| Crucifers (Broccoli, Brussels Sprout, Cabbage, Cauliflower, Collard Greens, Mustard Greens, Turnip Greens) | Black Leaf Spot (<i>Alternaria</i>), Black Rot (<i>Xanthomonas</i>), Downy Mildew | 0.75-1.5 lbs. | Begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development. Apply at 7 to 10 day intervals or as needed. Use the higher rates when conditions favor disease. |
| | | | NOTE: Reddening of older leaves may occur on broccoli and a flecking of wrapper leaves may occur on cabbage. |
| Cucurbits (Cantaloupe, Cucumber, Honeydew, Muskmelon, Pumpkin, Squash, Watermelon) | Alternaria Leaf Spot, Angular Leaf Spot, Anthracnose, Downy Mildew, Gummy Stem Blight, Powdery Mildew, Watermelon Bacterial Fruit Blotch (suppression) | 1-2.25 lbs. | Begin applications prior to disease development and continue while conditions are favorable for disease development. Repeat at 5 to 7 day intervals or as needed. Use the higher rates when conditions favor disease. |
| | | | NOTE: Crop injury may occur from application at higher rates and shorter intervals. Discontinue use if injury occurs. |
| Eggplant | Alternaria Blight, Anthracnose, Phomopsis | 1.5 lbs. | Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity. |

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| Endive, Escarole, Lettuce | Downy Mildew | 0.75-1.5 lbs. | Begin treatment when disease first appears and repeat every 7 to 10 days or as needed to suppress disease. Use the higher rates and shorter spray intervals when conditions favor disease. |
| | | | NOTE: Flecking and/or yellowing of leaves may occur under certain environmental conditions such as extended periods of moist weather, acid rains, or other conditions favoring reduced pH on leaf surfaces. Injury may be severe enough to reduce crop value. |
| Onion, Garlic | Bacterial Blight, Downy Mildew, Purple Blotch | 1.5 lbs. | Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals or as needed depending on disease severity. Can cause phytotoxicity to leaves. |
| Pea | Powdery Mildew | 1-2.25 lbs. | Begin applications when disease symptoms first appear and repeat at weekly intervals or as needed. Use the higher rates when conditions favor disease. |
| Pepper | Anthracnose, Bacterial Spot, Cercospora Leaf Spot | 1.5-2.25 lbs. | Begin applications when conditions first favor disease development and repeat at 7 to 10 day intervals or as needed depending on disease severity. Use the higher rates when conditions favor disease. |
| Spinach | Anthracnose, Blue Mold, Cercospora Leaf Spot, White Rust | 1.5-2.25 lbs. | Begin application when disease first appears or when conditions favor disease development. Repeat at 7 to 10 day intervals or as needed. Use the higher rates when conditions favor disease. |

NOTE: Flecking may occur on

24/44

Spinach leaves.

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| Tomato | Anthracnose, Bacterial Speck, Bacterial Spot, Early Blight, Gray Leaf Mold, Late Blight, Septoria Leaf Spot | 1.5-3 lbs. | Begin applications when disease first threatens and repeat at 5 to 10 day intervals or as needed depending on disease severity. Use the higher rates when conditions favor disease. |
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| Watercress | Cercospora Leaf spot | 1.5 lbs. | Begin applications when plants are first established in the field, repeating at 7 to 14 day intervals or as needed depending on disease severity. Do not exceed four applications per crop. Apply using ground spray equipment at no less than 50 gallons of spray solution per acre. |
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VINES

| <u>Crops</u> | <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
|--------------|---|------------------|--|
| Grape | Black Rot, Downy Mildew, Phomopsis, Powdery Mildew | 1.5 lbs. | Begin applications at bud break with subsequent applications throughout the season depending on disease severity. Use the higher rates when conditions favor disease. |

NOTE: Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagara and Rosette. Either test for sensitivity or add 1 to 3 pounds of hydrated lime per pound of Kocide 2000.

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| Hops | Downy Mildew | 1.5 lbs. | Make crown treatment after pruning, but before training. After training, additional treatments are needed at about 10 day intervals. |
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NOTE: Discontinue use two weeks

25/44

before harvest.

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| Kiwi | <i>Erwinia herbicola</i> , <i>Pseudomonas fluorescens</i> , <i>Pseudomonas syringae</i> | 6 lbs. | Apply in 200 gallons of water per acre. Make applications on a monthly basis. A maximum of three applications may be made. |
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MISCELLANEOUS

| <u>Crop</u> | <u>Disease</u> | <u>Rate/Acre</u> | <u>Use Instructions</u> |
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| Atemoya | Anthraxnose | 2.25-3.5 lbs. | Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease. |
| Carambola | Anthraxnose | 4.5-6 lbs. | Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease. |
| Chives | Downy Mildew | 1.5 lbs | Begin applications when plants are established in the field. Repeat applications every 7 to 10 days or as needed depending on disease conditions. |
| Dill | Phoma Leaf Spot, Rhizoctonia Foliage Blight | 1.5-2.25 lbs. | Begin applications when plants are first established in the field and repeat at 7 to 10 day intervals or as needed depending upon disease severity and environmental conditions. Use the higher rates when conditions favor disease. |
| Douglas Fir | Rhabdocline Needlecast | 1.5-2.25 lbs. | Begin applications at bud break and repeat at 3 to 4 week intervals or as needed. Use higher rates for severe |

disease:

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| Ginseng | Alternaria Leaf Blight, Stem Blight | 2-3 lbs. | Use as a tank mix with 2 pounds Rovral® 50W in 100 gallons of water. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Begin Kocide-Rovral applications as soon as plants have emerged in spring. Applications should be repeated every 7 days or as needed until plants become dormant in fall. Apply fungicides at least 8 hours before rain. Use of a spreader-sticker or sticker is advised. |
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NOTE: Alternaria Leaf and Stem Blight is most severe in humid conditions such as those found in the dense canopies of 2 to 4 year old Ginseng. It is very important that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.

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| Guava | Anthracnose, Red Algae | 2.25-3.5 lbs. | Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease. |
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| Litchi | Anthracnose | 2.25-3.5 lbs. | Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease. |
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| Live Oak, Pecan | Ball Moss | 4.5-6 lbs. | Apply in 100 gallons of water in the spring when ball moss is actively growing, using 1½ gallons of spray per foot of tree height. Make sure to wet ball moss tufts thoroughly. A second application may be required after 12 months. |
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NOTE: Kocide 2000 may be injurious to ornamentals grown under live oaks or pecans. This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

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| Macadamia | Anthracnose | 4.5-6.75 lbs. | Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease. |
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| Phytophthora Blight (<i>P. capsici</i>), Raceme Blight (<i>Botrytis cinerea</i>) | 3.5-4.5 lbs. | Apply during raceme development and bloom periods. Apply in sufficient water for thorough coverage. Use the higher rates when conditions favor disease. |
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| Mamey Sapote | Algal Leaf Spot, Anthracnose | 4.5-6 lbs. | Apply when conditions favor disease development. Repeat on 14 to 30 day schedule or as needed as disease severity and environmental conditions dictate. Use the higher rates when conditions favor disease. |
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| Papaya | Anthracnose | 3-7.5 lbs. | Apply before disease appears. Apply at 10 to 14 day intervals under light disease pressure and 5 to 7 day intervals or as needed under heavy disease pressure. The addition of an approved spreader is desirable. Use |
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the higher rates when conditions favor disease.

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| Parsley | Bacterial Blight (<i>Pseudomonas</i> sp.) | 2.25 lbs. | Begin applications when plants are first established in the field and repeat at 5 to 7 days intervals or as needed depending on disease severity and environmental conditions. |
| Passion Fruit | Anthracnose | 4.5-6.75 lbs. | Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates when conditions favor disease. |
| Sugar Apple (<i>Annona</i>) | Anthracnose | 9-13.5 lbs. | Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates when conditions favor disease. |
| Sycamore | Anthracnose | 1.5-2.25 lbs. | Apply as a full cover spray in 100 gallons of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7 to 10 days later at 10% leaf expansion. Use the higher rates when conditions favor disease. |

CONIFERS

For use on conifers, including Douglas fir, Pin, Juniper, Leyland Cypress, Pine and Spruce, in Christmas tree plantings, forest stands and silviculture nurseries.

For control of foliar diseases, apply Kocide 2000 as a thorough cover spray at rates ranging from 1.5 to 3 pounds per acre. Begin applications in the spring at the initiation of new growth and repeat at 2 to 4 week intervals as needed. Use the higher rates when disease pressure is severe or when environmental conditions favor disease development.

29/44

Kocide 2000 is recommended for use on the listed conifers for control of the following diseases:

| <u>Crop</u> | <u>Scientific Name</u> | <u>Disease</u> |
|-----------------|------------------------------------|--|
| Douglas Fir | <i>Pseudotsuga menziesii</i> | Rhabdocline Needlecast |
| Fir | <i>Abies</i> spp. | Needlecasts |
| Juniper | <i>Juniperus</i> spp. | Anthracnose, Phomopsis Twig Dieback |
| Leyland Cypress | <i>X Cupressocyparis leylandii</i> | Cercospora Needle Blight |
| Pine | <i>Pinus</i> spp. | Needlecasts |
| Spruce | <i>Picea</i> spp. | Needlecasts |

~~Lichens: To control lichens on any of the conifers above, apply 6 to 10 pounds of Kocide 2000 per acre as a dormant application before new growth emerges in the spring. The addition of a non-ionic surfactant will improve control. A second application may be required after 12 months.~~

~~NOTE: Do not buffer or combine with emulsifiable concentrate insecticides.~~

TURFGRASS

For use to control algae in turfgrass on sod farms, golf courses, cemeteries, home lawns and industrial or municipal turf areas, including parks, playgrounds and athletic fields. Apply 1 pound Kocide 2000 per 1,000 square feet in 5 gallons of water. Kocide 2000 may be used alone or in combination with other registered turf fungicides as a maintenance spray. Observe all precautions and limitations on the label of each product used in tank mixes.

~~NOTE: Phytotoxicity may occur depending on varietal differences. Apply the recommended rate to a small area and observe for 7 to 10 days for signs of injury. If phytotoxicity occurs, discontinue use. Do not apply in spray solutions with a pH of less than 6.5.~~

~~NOTE: This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.~~

GREENHOUSE AND SHADEHOUSE CROPS

Notice to User: Kocide 2000 may be used in greenhouses and shadehouses to control diseases on crops which appear on this label, and specific instructions have been developed for the crops

listed. The grower should bear in mind that the sensitivity of crops grown in greenhouses and shadehouses differs greatly from crops grown under field conditions. Neither the manufacturer nor seller has determined whether or not Kocide 2000 can be used safely on all greenhouse and shadehouse grown crops. The user should determine if Kocide 2000 can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e., foliage, fruit, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.

Apply Kocide 2000 according to specific rates given for those crops in pounds per acre. **One level tablespoon of Kocide 2000 per 1,000 square feet is equivalent to 1 pound per acre.** Kocide 2000 should be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat at 7 to 14 day intervals or as needed; use shorter ~~spray~~ intervals during periods when severe disease conditions persist.

NOTE: Phytotoxicity may occur on young tender flush when Kocide 2000 is applied to citrus seedlings grown in greenhouses or shadehouses.

| <u>Crop</u> | <u>Disease</u> | <u>Rate Per 1,000 Sq Ft</u> | <u>Use Instructions</u> |
|------------------------------|--|---------------------------------|--|
| Citrus (Non-Bearing Nursery) | Brown Rot, Citrus Canker, Greasy Spot, Melanose, Pink Pitting, Scab | 3 TBSP | Begin applications when disease first threatens. Repeat at 30 day intervals or as needed depending on disease severity. |
| Cucumber | Angular Leaf Spot, Downy Mildew | 1-2½ TBSP | Apply weekly when plants begin to vine. Use the higher rates when conditions favor disease. |
| Eggplant | Alternaria Blight, Anthracnose, Phomopsis | 1½ TBSP | Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity. Use higher rates when conditions favor disease. |
| Pepper | Bacterial Spot | 1½-2½ TBSP | Begin applications when conditions first favor disease development and repeat at 5 to 10 day intervals or as needed depending on disease severity. Use the higher rates when |

conditions favor disease.

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| Tomato | Anthracnose, Bacterial Speck, Bacterial Spot, Early Blight, Grey Leaf Mold, Late Blight, Septoria Leaf Spot | 1½-3 TBSP | Begin applications when disease first threatens and repeat at 5 to 10 day intervals or as needed depending on disease severity. Use the higher rates when conditions favor disease. |
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TURFGRASS

For use to control algae in turfgrass on sod farms, golf courses, cemeteries, home lawns and industrial or municipal turf areas, including parks, playgrounds and athletic fields. Apply 1 ~~ounce~~ ^{ounce} pound of Kocide 2000 per 1,000 square feet in 5 gallons of water. Kocide 2000 may be used alone or in combination with other registered turf fungicides as a maintenance spray. Observe all precautions and limitations on the label of each product used in tank mixes.

NOTE: Phytotoxicity may occur depending on varietal differences. Apply the recommended rate to a small area and observe for 7 to 10 days for signs of injury. If phytotoxicity occurs, discontinue use. Do not apply in spray solutions with a pH of less than 6.5.

NOTE: This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

ORNAMENTALS

Use Kocide 2000 for control of bacterial and fungal diseases of foliage, flowers and stems on ornamentals in greenhouses, shadehouses, outdoor nurseries and outdoor landscape plantings.

For ornamental crops in dormancy, apply as a thorough cover spray at rates ranging from 0.75 to 3 pounds per acre of Kocide 2000. When new growth is present, apply as a thorough cover spray at rates ranging from 0.75 to 2 pounds per acre of Kocide 2000. **One level tablespoon of Kocide 2000 per 1,000 square feet is equivalent to 1 pound per acre.** Begin application at first sign of disease and repeat at 7 to 14 day intervals or as needed; use ~~the higher rates and~~ shorter ~~spray~~ intervals during periods of frequent rains or when severe disease conditions persist.

Kocide 2000 may be used alone or in combination with other fungicides registered for use on ornamentals as a maintenance spray. Use in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Notice to User: Plant sensitivities to Kocide 2000 have been found to be acceptable for the

specific genera and species listed on this label under the conditions tested. However, phytotoxicity may occur. Due to the large number of species and varieties of ornamental and nursery plants, and the wide range of growing conditions, it is impossible to test every one for sensitivity to Kocide 2000. Neither the manufacturer nor seller has determined whether or not Kocide 2000 can be safely used on ornamental or nursery plants not listed on this label. The user should determine if Kocide 2000 can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e., bedding plants, foliage, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.

NOTE: This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

| <u>Crop</u> | <u>Scientific Name</u> | <u>Disease</u> |
|-------------------------|----------------------------------|---|
| Aglaonema | <i>Aglaonema</i> spp. | Bacterial Leaf Spot |
| Althea (Rose of Sharon) | <i>Hibiscus syriacus</i> | Bacterial Leaf Spot |
| Andromeda, Japanese | <i>Pieris japonica</i> | Leaf Spots, Twig Blight |
| Aralia | <i>Dizygotheca elegantissima</i> | Alternaria, Cercospora Leaf Spot, Xanthomonas Leaf Spot |
| Arborvitae | <i>Thuja</i> spp. | Alternaria Twig Blight, Cercospora Leaf Blight |
| Aster | <i>Aster</i> spp. | Downy Mildew, Leaf Spots |
| Azalea <u>1/</u> | <i>Rhododendron</i> spp. | Botrytis Blight, Cercospora Leaf Spot, Phytophthora Dieback, Powdery Mildew |
| Beech | <i>Fagus</i> spp. | Leaf Spots |
| Begonia | <i>Begonia semperflorens</i> | Bacterial Leaf Spot (<i>Erwinia</i> spp., <i>Pseudomonas</i> spp., <i>Xanthomonas</i> spp.) |

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| Boston Fern | <i>Nephrolepis exaltata</i> | Bacterial Leaf Spot |
| Bougainvillea | <i>Bougainvillea spectabilis</i> | Anthracnose, Bacterial Leaf Spot |
| Boxwood | <i>Buxus</i> spp. | Leaf Spots |
| Camellia | <i>Camellia japonica</i> , <i>C. sasanqua</i> | Anthracnose, Bacterial Leaf Spot |
| Camphor Tree | <i>Cinnamomum camphora</i> | Pseudomonas Leaf Spot |
| Canna | <i>Canna</i> spp. | Pseudomonas Leaf Spot |
| Carnation <u>1/</u> | <i>Dianthus</i> spp. | Alternaria Blight, Botrytis Blight, Pseudomonas Leaf Spot |
| Cedar | <i>Cedrus</i> spp. | Tip Blight |
| Cherry, Nanking | <i>Prunus namentosa</i> | Bacterial Leaf Spot |
| Chinese Tallow Tree | <i>Sapium sebiferum</i> | Bacterial Leaf Spot (<i>Pseudomonas</i> spp., <i>Xanthomonas</i> spp.) |
| Chrysanthemum <u>1/</u> | <i>Chrysanthemum morifolium</i> | Botrytis Blight, Pseudomonas Leaf Spot, Septoria Leaf Spot |
| Cotoneaster | <i>Cotoneaster</i> spp. | Botrytis Blight |
| Crabapple | <i>Malus</i> spp. | Fire Blight |
| Cypress | <i>Cupressus</i> spp. | Twig Blight |
| Dahlia | <i>Dahlia pinnata</i> | Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot |
| Date Palm | <i>Phoenix canariensis</i> | Pestalotia Leaf Spot |
| Delphinium | <i>Delphinium</i> spp. | Leaf Spots |

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| Dianthus | <i>Dianthus</i> spp. | Bacterial Soft Rot, Bacterial Spot |
| Dogwood, Flowering | <i>Cornus florida</i> | Anthracnose |
| Dogwood, Kousa | <i>Cornus kousa</i> | Fungal Leaf Spots |
| Douglas Fir | <i>Pseudotsuga menziesii</i> | Rhabdocline Needlecast |
| Dracaena | <i>Dracaena marginata</i> | Bacterial Leaf Spot |
| Dumb Cane | <i>Dieffenbachia</i> spp. | Bacterial Leaf Spot |
| Dusty Miller | <i>Senecio cineraria</i> | Bacterial Leaf Spot (<i>Pseudomonas cichorii</i>) |
| Easter Lily 2/ | <i>Lilium longiflorum</i> | Botrytis Blight |
| Echinacea | <i>Echinacea</i> spp. | Bacterial Leaf Spot (<i>Pseudomonas cichorii</i>) |
| Elm, Chinese | <i>Ulmus parvifolia</i> | Xanthomonas Leaf Spot |
| Euonymus | <i>Euonymus</i> spp. | Anthracnose, Botrytis Blight |
| European Fan Palm | <i>Chamaerops humilis</i> | Pestalotia Leaf Spot |
| Fern, Boston | <i>Nephrolepis exaltata</i> | Bacterial Leaf Spot |
| Fern, Holly | <i>Cyrtomium falcatum</i> | <i>Pseudomonas</i> Leaf Spot |
| Fig, Weeping | <i>Ficus benjamina</i> | Bacterial Leaf Spot |
| Filbert (Ornamental) | <i>Corylus</i> spp. | Filbert Blight |
| Fir | <i>Abies</i> spp. | Needlecasts |
| Gardenia | <i>Gardenia jasminoides</i> | <i>Alternaria</i> Leaf Spot, Botrytis Bud Rot, <i>Cercospora</i> Leaf Spot |
| Geranium | <i>Pelargonium</i> spp. | <i>Alternaria</i> Leaf Spot, |

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| | | Botrytis Gray Mold, Cercospora Leaf Spot |
| Gladiola | <i>Gladiolus</i> spp. | Alternaria Leaf Spot, Anthracnose, Bacterial Leaf Blight, Botrytis Gray Mold |
| Golden Rain Tree | <i>Koelreuteria paniculata</i> | Bacterial Leaf Spot |
| Grape Ivy | <i>Cissus</i> spp. | Bacterial Leaf Spot |
| Hawthorn | <i>Crataegus</i> spp. | Fire Blight |
| Hibiscus <u>4/</u> | <i>Hibiscus</i> spp. | Bacterial Leaf Spot |
| Holly | <i>Ilex</i> spp. | Bacterial Blight, Leaf Spots |
| Holly Fern | <i>Cyrtomium falcatum</i> | Pseudomonas Leaf Spot |
| Honeylocust | <i>Gleditsia triacanthos</i> | Bacterial Leaf Spot |
| Honeysuckle, Tatarian | <i>Lonicera tatarica</i> | Bacterial Leaf Spot |
| Impatiens | <i>Impatiens sallerana</i> | Bacterial Leaf Spot |
| Indian Hawthorn <u>5/</u> | <i>Raphiolepis indica</i> | Anthracnose, Entomosporium Leaf Spot |
| Iris <u>6/</u> | <i>Iris</i> spp. | Bacterial Leaf Spot |
| Ivy (English, Algerian) <u>1/</u> | <i>Hedera helix, H. canariensis</i> | Xanthomonas Leaf Spot |
| Ixora | <i>Ixora coccinea</i> | Xanthomonas Leaf Spot |
| Juniper | <i>Juniperus</i> spp. | Anthracnose, Phomopsis Twig Blight Dieback |
| Lantana | <i>Lantana camera</i> | Bacterial Leaf Spot |
| Leyland Cypress | <i>X Cupressocypariss leylandii</i> | Cercospora Needle Blight |

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| Lilac | <i>Syringa</i> spp. | Cercospora Leaf Spot, Pseudomonas Blight |
| Lily, Easter <u>2/</u> | <i>Lilium longiflorum</i> | Botrytis Blight |
| Linden | <i>Tilia</i> spp. | Anthrachnose, Leaf Blight |
| Loblolly Bay | <i>Gordonia lasianthus</i> | Anthrachnose |
| Loquat | <i>Eriobotrya japonica</i> | <i>Colletotrichum</i> spp., <i>Entomosporium maculata</i> |
| Magnolia (Southern) | <i>Magnolia grandiflora</i> | Algal Leaf Spot, Anthrachnose, Bacterial Leaf Spot |
| Magnolia (Sweetbay) | <i>Magnolia virginiana</i> | Anthrachnose |
| Magnolia (Oriental) | <i>Magnolia soulangiana</i> | Bacterial Leaf Spot |
| Mandevilla | <i>Mandevilla</i> spp. | Anthrachnose |
| Maple | <i>Acer</i> spp. | Pseudomonas Leaf Blight |
| Marigold | <i>Tagetes</i> spp. | Alternaria Leaf Spot, Botrytis Leaf Rot, Cercospora Leaf Spot, Flower Rot |
| Mountain-Ash | <i>Sorbus</i> spp. | Fire Blight |
| Mulberry, Contorted | <i>Morus bombycis</i> | Bacterial Leaf Spot |
| Mulberry, Weeping | <i>Morus alba</i> | Bacterial Leaf Spot |
| Narcissus | <i>Narcissus</i> spp. | Leaf Blight |
| Nephthytis | <i>Syngonium podophyllum</i> | Bacterial Leaf Spot |
| Oak | <i>Quercus</i> spp. | Leaf Spots |

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| Oak, Laurel | <i>Quercus laurifolia</i> | Algal Leaf Spot (<i>Cephaleuros virescens</i>) |
| Oleander | <i>Nerium oleander</i> | Bacterial Leaf Spot, Fungal Leaf Spot |
| Oregon Grapeholly | <i>Mahonia aquifolium</i> | Leaf Spots |
| Pachysandra | <i>Pachysandra procumbens</i> | Volutella Leaf Blight |
| Palm, Date | <i>Phoenix canariensis</i> | Pestalotia Leaf Spot |
| Palm, European Fan | <i>Chamaerops humilis</i> | Pestalotia Leaf Spot |
| Palm, Parlor | <i>Chamaedorea elegans</i> | Bacterial Leaf Spot |
| Palm, Queen | <i>Arecastrum romanzoffianum</i> | Exosporium Leaf Spot, Phytophthora Bud Rot |
| Palm, Washingtonia | <i>Washingtonia robusta</i> | Pestalotia Leaf Spot |
| Peach (Flowering) 3/ | <i>Prunus</i> spp. | Bacterial Blast, Brown Rot, Fire Blight |
| Pear (Flowering) | <i>Pyrus calleryana,</i> | Fire Blight, Leaf Spots |
| Pentas (Egyptian Star) | <i>Pentas</i> spp. | Bacterial Leaf Spot (<i>Pseudomonas</i> spp. <i>Xanthomonas</i> spp.) |
| Peony | <i>Paeonia</i> spp. | Botrytis Blight |
| Periwinkle | <i>Catharanthus roseus,</i> <i>Vinca</i> spp. | Phomopsis Stem Blight |
| Philodendron | <i>Philodendron selloum</i> | Bacterial Leaf Spot |
| Phlox | <i>Phlox</i> spp. | Alternaria Leaf Spot |
| Photinia (Red Tip) | <i>Photinia x fraserii,</i> <i>P. glabra</i> | Anthracnose, Entomosporium Leaf Spot |

38/44

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| Pine | <i>Pinus</i> spp. | Needlecasts Blight |
| Pistachio | <i>Pistacia chinensis</i> | Anthracnose |
| Plantain Lily <u>6/</u> | <i>Hosta</i> spp. | Bacterial Leaf Spot |
| Plum (Flowering) <u>3/</u> | <i>Prunus</i> spp. | Bacterial Blast, Bacterial Leaf Spot , Brown Rot, Fire Blight |
| Pothos | <i>Scindapsus</i> spp. | Bacterial Leaf Spot |
| Powder Puff Plant | <i>Calliandra</i> spp. | Bacterial Leaf Spot |
| Pyracantha | <i>Pyracantha</i> spp. | Fire Blight, Scab |
| Queen Palm | <i>Arecastrum romanzoffianum</i> | Exosporium Leaf Spot , Phytophthora Bud Rot |
| Rhododendron | <i>Rhododendron</i> spp. | Alternaria Flower Spot |
| Rose <u>1/</u> | <i>Rosa</i> spp. | Black Spot, Powdery Mildew |
| Snapdragon | <i>Antirrhinum majus</i> | Anthracnose, Dieback, Downy Mildew |
| Spathe Flower | <i>Spathiphyllum</i> spp. | Bacterial Leaf Spot |
| Spirea | <i>Spiraea</i> spp. | Fire Blight |
| Spruce | <i>Picea</i> spp. | Needlecasts |
| Sycamore | <i>Platanus</i> spp. | Anthracnose , Leaf Spots |
| Tatarian Honeysuckle | <i>Lonicera tatarica</i> | Bacterial Leaf Spot |
| Tulip | <i>Tulipa</i> spp. | Anthracnose, Botrytis Blight |

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| Umbrella Tree | <i>Schefflera</i> spp. | Bacterial Leaf Spot |
| Verbena | <i>Verbena</i> spp. | Xanthomonas Leaf Spot |
| Viburnum | <i>Viburnum odoratissimum</i> , <i>V. plicatum</i> , <i>V. suspensum</i> | Anthracnose |
| Viola (Pansy, Violet) | <i>Viola</i> spp. | Downy Mildew |
| Washingtonia Palm | <i>Washingtonia robusta</i> | Pestalotia Leaf Spot |
| Weeping Fig | <i>Ficus benjamina</i> | Bacterial Leaf Spot |
| Willow | <i>Salix</i> spp. | Anthracnose |
| Yew | <i>Taxus</i> spp. | Needle Blight |
| Yucca (Adam's Needle) | <i>Yucca</i> spp. | Cercospora Leaf Spot, Septoria Leaf Spot |
| Zinnia | <i>Zinnia</i> spp. | Leaf Spots |

~~*Use in all states except California~~

- 1/ Discoloration of foliage and/or blooms has been noted on some varieties. To prevent residues on commercial plants, do not spray immediately before selling season.
- 2/ Apply Kocide 2000 at 2.25 to 3.75 pounds per acre.
- 3/ Apply dormant through bloom only.
- 4/ Hibiscus - Do not apply to plants in flower.
- 5/ For Indian Hawthorn use 1.5 to 3.0 pounds per acre.
- 6/ Some cultivars may be sensitive to Kocide 2000.

NOTE: Phytotoxicity may depend on varietal differences. If unfamiliar with the use of Kocide 2000, apply the recommended rate to a few plants and observe after 7 to 10 days for symptoms of phytotoxicity.

40/44

Control of Ball Moss, Spanish Moss and Lichens on Ornamental and Shade Trees: Apply Kocide 2000 in early spring when the trees are dormant. Apply 4.5 to 6 pounds of Kocide 2000 in 100 gallons of water, using 1½ gallons of spray per foot of tree height. Be sure to thoroughly wet ball moss tufts, Spanish moss or lichens. The addition of a non-ionic surfactant will improve control. A second application may be required after 12 months.

NOTE: Kocide 2000 may be injurious to some ornamental plants growing beneath the trees. This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

Cold Storage Protection for Dormant Rootstock: To protect bare-root nursery trees from *Phytophthora* Crown Rot and *Botrytis*, use 2 to 5 pounds of Kocide 2000 per 100 gallons of water. Apply as a dip or spray to the roots and lower stems of dormant rootstock prior to placing in cold storage. Do not apply to rootstock less than 2 years old.

GENERAL CHEMIGATION INSTRUCTIONS

Do not apply this product through any irrigation (chemigation) system using aluminum parts or components as damage to the system may occur. Such application is prohibited regardless of whether the irrigation system is flushed with water after use of this product.

Apply this product only through one or more of the following types of systems: sprinkler, including center pivot, lateral move, traveler, big gun, or plastic pipe solid set system(s) which contain no aluminum parts or components. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

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

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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.

Shut off injection equipment after treatment and continue to operate irrigation system until Kocide 2000 has been cleared from the last sprinkler head.

41/44

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into the reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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 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 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, or in cases where there is no water pump, 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.

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

NOTE: It must be determined in the selection process if proper application equipment is available and if the waste associated with its use can be properly handled. ~~Materials used in the construction of application equipment is also an important factor as~~ Agricultural chemicals are often reactive with soft metals ~~the materials used in the construction of application equipment,~~ such as aluminum, ~~and even some synthetic materials such as plastics, rubbers, etc. and some synthetic materials.~~ ~~This factor should be taken into consideration when selecting proper application equipment.~~ Therefore It is necessary when working with equipment containing these materials that they are ~~that all application equipment be~~ thoroughly flushed with clean water after each day's use.

When mixing, fill the nurse tank half full with water. Add Kocide 2000 slowly to tank while

42/44

hydraulic or mechanical agitation is operating and continue filling with water. **DO NOT PREMIX OR SLURRY** Kocide 2000. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use the Compatibility Jar Test before mixing a whole tank. Because of the wide variety of possible combinations which can be encountered, observe all precautions and limitations on the labels of all products used in mixtures. Agitation of the mixture in the nurse tank is recommended.

Kocide 2000 should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or ~~hand moved~~ irrigation systems. Shut off injection equipment after treatment and continue to operate irrigation system until Kocide 2000 has been cleared from the last sprinkler head.

SPRINKLER CHEMIGATION

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 also 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 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.

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

NOTE: It must be determined ~~in the selection process~~ if proper application equipment is available and if ~~the waste~~ associated with its use can be properly handled. ~~Materials used in the construction of application equipment is also an important factor as~~ Agricultural chemicals are often reactive with ~~soft metals~~ **the materials used in the construction of application equipment;**

43/44

such as aluminum, ~~and even some synthetic materials such as plastics, rubbers, etc.~~ and some synthetic materials. This factor should be taken into consideration when selecting proper application equipment. ~~Therefore~~ It is necessary when working with equipment containing these materials ~~that they are~~ that all application equipment be thoroughly flushed with clean water after each day's use.

When mixing, fill the nurse tank half full with water. Add Kocide 2000 slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. **DO NOT PRE-MIX OR SLURRY** Kocide 2000. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use the Compatibility Jar Test before mixing a whole tank. Because of the wide variety of possible combinations which can be encountered, observe all precautions and limitations on the labels of all products used in mixtures. Agitation of the mixture in the nurse tank is recommended.

Kocide 2000 should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set ~~or hand-moved~~ irrigation systems. Shut off injection equipment after treatment and continue to operate irrigation system until Kocide 2000 has been cleared from the last sprinkler head.

WARRANTY STATEMENT

GRIFFIN warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling or application of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid for this product or at GRIFFIN'S election, the replacement of this product. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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Curtec is a registered trademark of the Curtec Corporation.

Griffin and Design are a registered trademark of Griffin Corporation.

Kocide is a registered trademark of Griffin Corporation.

Rovral is a registered trademark of the Aventis Group.

Tre-Hold is a registered trademark of Amvac Chemical Corporation.

44/44

(Based on EPA stamped accepted labels dated April 27, 1999 and September 10, 1999 and a notification dated March 21, 2000)