# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460



OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OCT: 3 2002

Dr. W. A. Hawkins Griffin LLC P.O. Box 1847 Valdosta, GA 31603-1847

Subject: Kocide LF

EPA Reg. No.: 1812-338

Submission dated July 26, 2002

Dear Dr. Hawkins:

The revised product labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted.

Submit one copy of the final printed label before releasing the product for shipment. A stamped copy of the label is enclosed for your records. The Agency notes that this proposed label does not include any labeling to prevent spray drift. The Agency requests that you review the draft Pesticide Regulation Notice (enclosed) and include appropriate spray drift instructions/guidance in a revised label. If you have questions about this label review, please contact Dennis McNeilly at (703) 308-6742 or electronically at moneilly.dennis@epa.gov.

Sincerely.

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

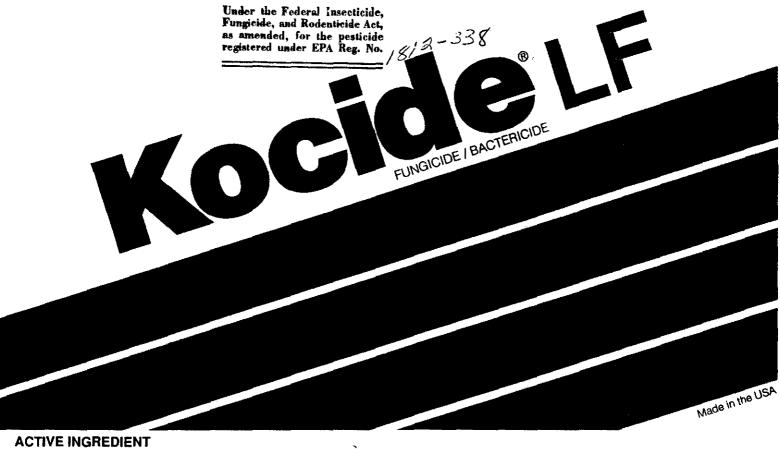
Enclosures: Stamped label

Draft PR Notice, Spray Drift



# ACCEPTED with COMMENTS In EPA Letter Dated:

OCT 32002



 Copper Hydroxide\*
 23%

 INERT INGREDIENTS
 77%

 TOTAL
 100%

(\*Metallic Copper Equivalent 15% or 1.6 Pounds Metallic Copper Per Gallon)
(2.4 Pounds Copper Hydroxide Per Gallon)

	KEEP OUT OF REACH OF CHILDREN
	CAUTION
	FIRST AID
IF IN EYES	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>
	Call a poison control center or doctor for treatment advice.
IF SWALLOWED	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	Move person to fresh air.
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferrably mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
IF ON SKIN	Take off contaminated clothing.
OR CLOTHING	Rinse skin immediately with plenty of water for 15 to 20 minutes.
	Call a poison control center or doctor for treatment advice.
Have the product co For medical emerg	ntainer or tabel with you when calling a poison control center or doctor, or going for treatment.  encies involving this product, call toll free 1-888-324-7598.
	AN: Probable mucosal damage may contraindicate use of gastric lavage.
See Label for Addition	onal Precautions and Directions for Use

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye injury. Avoid breathing vapor or spray mist. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

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 slection sheet.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- -- Chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Follow the 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 RECOMMENDATION**

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 when disposing 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 intervals. 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 eyeflush 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
- Chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber, or butyl rubber
- 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.

### 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of 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 LF 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 LF 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 LF. 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 LF label for specific rates and timing of application by crop. Where application rates and intervals are provided in a range (e.g. 6 to 16 pints 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 LF 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 LF 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 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 LF 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 LF slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. 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 label of all products used in mixtures.

## **CROP CLASSIFICATION**

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

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, Celeriac, Celery, Cucumber, Eggplant, Greens (Collard, Mustard and Turnip), Honeydew, Muskmelon, Onion/Garlic, Pea, Pepper, Pumpkin, Spinach, Squash, Tomato, Watercress and Watermelon.

VINES: Grape, Hops and Kiwl.

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

SEED DRESSING: Barley, Rice and Wheat.

GREENHOUSE AND SHADEHOUSE CROPS: Kocide LF 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.

ORNAMENTALS: Species as listed.

\*Except California

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

	Aeria <del>l</del>	Gro	und
		Dilute	Concentrate
Citrus	10	800	100*
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 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 LF 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**

Adding foliar nutritionals or other products to spray mixtures containing Kocide LF and applying to citrus during the post-bloom period when young fruit are present may result in spray burn.

Disease	Rate/Acre	Use Instructions
Algal Spot, Melanose, Scab	51/ <sub>2</sub> -16 pts.	Apply as pre-bloom and post-bloom sprays. Use the higher rates when conditions favor disease.
Greasy Spot, Pink Pitting	2¾-8 pts.	Apply in summer on expanded new flush. Repeat on subsequent flushes where disease pressure is severe. Use the higher rates when conditions favor disease.
Alternaria Brown Spot	5⅓-10⅔ pts.	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 the higher rates when conditions favor disease.
Phytophthora Brown Rot, Septoria Spot	5%-10% pts.	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 1 foot beyond skirt. Use the higher rates when conditions favor disease.
		NOTE: In California, in areas subject to copper injury, add ½ to 1 pound of high quality lime per quart of Kocide LF.
Phytophthora Foot Rot	11/3 pts.	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: Areas where microjet or low volume irrigation hit the tree trunk may require retreatment due to wash off.
Citrus Canker (Suppression)	16 pts.	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 LF 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 5½ to 10% pints of Kocide LF per acre. Apply Kocide LF at 28 day intervals or as needed depending on disease severity.

# FIELD CROPS

Crop	Disease	Rate/Acre	Use Instructions
Alfalfa	Cercospora Leaf Spot, Leptosphaerulina	2% pts.	Apply 10 to 14 days before each harvest or earlier if disease threatens.  NOTE: Spray injury may occur with sensitive varieties such as Lahontan.
	Leaf Spot		11012. Spray injury may occur with sensitive varieties such as Earlottan.
Peanut	Cercospora Leaf Spot	2-4 pts.	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 the higher rates when conditions favor disease. Flowable sulfur may be added.
Potato	Early Blight, Late Blight	11/3-51/3 pts.	Apply 1½ to 2½ pints at 7 to 10 day intervals or as needed starting when plants are 2 to 6 inches high in locations where disease is light. Apply up to 5½ pints per acre when disease is more severe. Under conditions of severe disease, control with Kocide LF 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.
Sugar Beet	Cercospora Leaf Spot	2%-6% pts.	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	2-23/3 pts.	Make first application at early heading and follow with second spray 10 days later. Use the higher rates when conditions favor disease.

# **SMALL FRUITS**

Стор	Disease	Rate/Acre	Use Instructions
Blackberry (Aurora, Boysen, Cascade, Chehalem, Logan, Marion,	Anthracnose, Cane Spot, Leaf Spot, Pseudomonas Blight, Purple Blotch, Yellow Rust	51/3 pts.	Make fall application after harvest. Apply delayed dormant spray after pruning/training in the spring. If needed, agricultural-type spray oil may be added.
Santiam, Thomless Evergreen)	Anthracnose, Cane Spot, Leaf Spot, Purple Blotch, Yellow Rust	2% pts.	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.
Blueberry*	Bacterial Canker	51/3-10% pts.	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	8 pts.	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	10% pts.	Make first application in late bloom. Make one or two additional applications at 10 to 14 day intervals or as needed depending upon disease severity.
	Rose Bloom	10% pts.	Apply three sprays on 10 to 14 day schedule or as needed as soon as symptoms are observed.
	Bacterial Stem Canker	10% pts.	Apply postharvest 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 (Monilinia)	10% pts.	Apply delayed dormant spray in the spring. Repeat at 10 to 14 day intervals or as needed through pre-bloom.
Current, Gooseberry	Anthracnose, Leaf Spot	131/3 pts.	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 Ru:	51/3 pts.	Make fall application after harvest. Apply delayed dormant spray after training in the spring. If needed agricultural-type spray oil may be added.
	Anthracnose, Cane Spot, Leaf Spot, Purple Blotch, Yellow Rust	23/5 pts.	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.
Strawberry	Angular Leaf Spot (Xanthomonas), Leaf Blight, Leaf Scorch, Leaf Spot	2%-4 pts.	Begin application when plants are established and continue on a weekly schedule throughout 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.
*Except California			TREE CROPS
Crop	Disease	Rate/Acre	Use Instructions
Almond, Apricot, Cherry, Plum, Prune	Bacteriał Blast (Pseudomonas), Bacterial Canker, Coryneum Blight (Shot Hole)	10%-21% pts.	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 1½ pints 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)	8-10% pts. (Almond) 10%-16 pts. (All others)	Apply during early bloom. Do not apply after full bloom or crop injury may result. Use the higher rates when rainfall is heavy and disease pressure is high.
	Black Knot (Plum)*	5½-10% pts.	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)	8-10¾ pts.	Apply at petal fall as well as one to two 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 2% pints of Kocide LF may reduce crop injury.
			NOTE: Moderate to severe injury such as leaf spotting and defoliation may occur from post-bloom applications.
Apple	Anthracnose, Blossom Blast, European Canker (Nectric Shoot Blast (Pseudomonic		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.

TREE CROPS Cont'd.

	TRE	E CROPS Cont'd.
Disease	Rate/Acre_	Use Instructions
Apple Scab*, Fire Blight	10%-21% pts.	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 ½ inch.
Apple Scab* Fire Blight*	2¾-5½ pts. 1½-2¾ pts.	Extended spray schedule where fruit finish is not a concern: Continued applications may be made at 5 to 7 day intervals or as needed between ½ inch green-tip and first cover spray.
		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 time per 2% pints of Kocide L'F may reduce crop injury.
Crown Rot, Collar Rot	51/a pts.	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.
Anthracnose, Blotch, Scab	10%-16 pts.	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.
Sigafoka (Black and Yellow)	23/3 pts.	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	51/3 pts.	Mix in 100 gallons of water. Apply to the fruit stem and basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence.
Black Pod	2%-11% pts.	Begin applications at the start of the rainy season and continue while infection conditions persist. Apply 2% to 5½ pints at 14 to 21 day intervals or as needed depending on disease severity. For drier areas, make two to four applications using 5½ to 11½ pints per acre according to disease incidence and planting density.
Coffee Berry Disease (Colletotrichum coffeanum)	8-10 <del>%</del> pts.	Apply first spray after flowering and 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 (Pseudomonas syringae)	8-10% pts.	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 of 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 (Hemileia vastatrix)	23/3-51/3 pts.	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 (Cercospora coffeicola), Pink Disease (Corticium salmonicolor)	2% pts.	Use concentrate or dilute spray. Begin treatment at the start of wet season and continue at monthly intervals for three applications.
Bacterial Blight	211/3-32 pts.	Apply as a postharvest 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	211/3-32 pts.	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 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.
Anthracnose	10%-13½ pts.	Apply monthly after fruit set until harvest. Use the higher rates when rainfall is heavy and disease pressure is high.
Olive Knot, Peacock Spot	10%-16 pts.	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.
Spot <i>(Xanthomonas)</i> , Coryneum Blight (Shot Ho		Make first application before fall rains and a second at late dormant. For peach leaf curt, 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	10%-16 pts.	Full cover spray at pink bud. Use the higher rates when conditions favor disease.
Bacterial Spot	11/3 pts.	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.
Fire Blight	1½ ots	Apply at 5 day intervals or as needed throughout the bloom period.
was	a rui passes	NOTE: Russetting may occur in copper sensitive varieties. Excessive dosages may cause fruit russet on any variety.
Blossom Blast (Pseudomonas)	16-211/3 pts.	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.
	Apple Scab* Fire Blight*  Apple Scab* Fire Blight*  Crown Rot, Collar Rot  Anthracnose, Blotch, Scab Sigafoka (Black and Yellow)  Black Pitting  Black Pod  Coffee Berry Disease (Colletotrichum coffeanum) Bacterial Blight (Pseudomonas syringae)  Leaf Rust (Hemileia vastatrix) Iron Spot (Cercospora coffeicola), Pink Disease (Corticium salmonicolor)  Bacterial Blight  Eastern Filbert Blight  Anthracnose  Olive Knot, Peacock Spot  Bacterial Canker, Bacteria Spot (Xanthomonas), Coryneum Blight (Shot Hotel) Leaf Curl Blossom Brown Rot, Coryneum Blight (Shot Hole), Leaf Curl Bacterial Spot	Apple Scab*, Fire Blight 10%-21½ pts.  Apple Scab* 24%-5½ pts.  Fire Blight* 1½-27½ pts.  Crown Rot, Collar Rot 5½ pts.  Crown Rot, Collar Rot 5½ pts.  Anthracnose, Blotch, Scab 2½ pts.  Black Pod 2½-11½ pts.  Coffee Berry Disease (Colletotrichum coffeanum)  Bacterial Blight (Pseudomonas syringae)  Leaf Rust (Hemileia 2½-5½ pts.  Leaf Rust (Hemileia 2½-5½ pts.  Coffeicola), Pink Disease (Corticium salmonicolor)  Bacterial Blight 21½-32 pts.  Eastern Filbert Blight 21½-32 pts.  Anthracnose 10¾-13½ pts.  Coryneum Blight (Shot Hole), Leaf Curl Blossom Brown Rot, Coryneum Blight (Shot Hole), Leaf Curl Bacterial Spot 1½ pts.  Fire Blight 1½ pts.  Fire Blight 1½ pts.

# TREE CROPS Cont'd.

Crop	Disease	Rate/Acre	Use Instructions
Pecan	Kemel Rot, Shuck Rot (Phytophthora cactorum), Zonate Leaf Spot (Cristulariella pyramidalis)	2%-5% pts.	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.
Pistachio	Botryosphaeria Panicle and Shoot Blight, Botrytis Blight, Late Blight (Alternaria alternata), Septoria Leaf Blight	51/2-10% pts.	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.
Quince	Fire Blight	11/3 pts.	Apply at 5 day intervals or as needed through bloom period. Apply in adequate water for thorough coverage.
Walnut	Wainut Blight	10%-16 pts.	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.
			NOTE: Adequate control may not be obtained when copper tolerant species of Xanthomonas bacteria are present.

#### \*Except California

			VEGETABLES
Crop	Disease	Rate/Acre	Use Instructions
Bean 'Dry, Green)	Brown Spot, Common Blight, Halo Blight	11/3-4 pts.	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	2%-6% pts.	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, Cercospora Leaf Spot	2% pts.	Begin application when disease first threatens and repeat at 7 to 14 day intervals or as needed depending on disease severity.
Celery, Celeriac	Bacterial Blight, Cercospora Early Blight, Septoria Late Blight	23/3 pts.	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 (Alternaria), Black Rot (Xanthomonas), Downy Mildew	11/5-23/5 pts.	Apply at 7 to 10 day intervals or as needed. Begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development. 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, Ioneydew, Muskmelon, Pumpkin, Squash, Watermelon)	Alternaria Leaf Spot, Angular Leaf Spot, Anthracriose, Downy Mildew, Gurmmy Stern Blight, Powdery Mildew, Watermelon Bacterial Fruit Blotch (Suppression)	2-4 pts.	Begin application 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	234 pts.	Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity.
Onion, Garlic	Bacterial Blight, Downy Mildew, Purple Blotch	2% pts.	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	2-4 pts.	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	23/3-4 pts.	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	2%-4 pts.	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 spinach leaves.
Tomato	Anthracnose, Bacterial Speck, Bacterial Spot, Early Blight, Gray Leaf Mold, Late Blight, Septoria Leaf Spot	2%-5% pts.	Begin when disease first threatens and repeat at 7 to 10 day intervals or as needed depending on disease severity. Use the higher rates when conditions favor disease.
Watercress	Cercospora Leaf Spot	2% pts.	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.

# **VINES**

Crop	Disease	Rate/Acre	Use Instructions
Grape	Black Rot, Downy Mildew, Phomopsis,	2⅓-5⅓ pts.	Begin applications at bud break with subsequent applications throughout the season depending on disease severity. Use the higher rates when conditions favor disease.
	Powdery Mildew		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 2% pints of Kocide LF.
Hops	Downy Mildew	2⅔ pts.	Make crown treatment after pruning, but before training. After training, additional treatments are needed at about 10 day intervals.
			NOTE: Discontinue use 2 weeks before harvest.
Kiwi	Erwinia herbicola, Pseudomonas fluorescens Pseudomonas syringae	10⅔ pts.	Apply in 200 gallons of water per acre. Make applications on a monthly basis. A maximum of three applications may be made.

# SEED DRESSING (Except California)

oil purposes.

Crop	Disease	Rate/Acre	Use Instructions
Barley, Wheat	Pseudomonas syringae, Tilletia caries, Xanthomonas translucens	4 fl. oz./ 100 lbs, of seed	When using a seed treating machine, dilute with sufficient water to assure uniform coverage. Consult State Agricultural Experiment Station regarding specific recommendations.
Rice	Achlya sp., Pythium sp.	4-8 fl. oz./ 100 lbs. of seed	When using a seed treating machine, dilute with sufficient water to assure uniform coverage. Consult State Agricultural Experiment Station regarding specific recommendations.

		M	ISCELLANEOUS
Crop	Disease	Rate/Acre	Use instructions
Atemoya	Anthracnose	4-6 pts.	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	Anthracnose	8-12 pts.	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	23/4 pts.	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	2%-4 pts.	Begin applications when plants are first established in the field and repeat at 7 to 10 day intervals or as needed depending on disease severity and environmental conditions. Use the higher rates when conditions favor disease.
Douglas Fir	Rhabdocline Needlecast	23/3-4 pts.	Begin applications at bud break and repeat at 3 to 4 week intervals as needed. Use the higher rates for severe disease.
Ginseng	Alternaria Leaf Blight, Stem Blight	31/3-51/3 pts.	Use as a tank mix with 2 pounds Rovra® 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.  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
Guava	Anthracnose, Red Algae	4-6 pts.	that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.  Make initial application just before flowering and repeat on a weekly schedule until
	Antinaciose, Neu Algae	4-0 pts.	just before harvest. Apply in sufficient water for thorough coverage. Use the higher rates for severe disease.
Litchi	Anthracnose	4-6 pts.	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.
Live Oak, Pecan	Ball Moss	8-12 pts.	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.
			NOTE: Koclde LF 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.
Macadamia	Anthracnose	8-12 pts.	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.
	Phytophthora Blight (P. capsici), Raceme Blight (Botrytis cinerea)	6-8 pts.	Apply during raceme development and bloom periods. Apply in sufficient water for thorough coverage. Use the higher rates when conditions favor disease.

# MISCELLANEOUS Cont'd.

Disease	Rate/Acre	Use Instructions
Algal Leaf Spot, Anthracnose	8-10% pts.	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.
Anthracnose	5%-13½ pts.	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 the higher rates when conditions favor disease.
Bacterial Blight (Pseudomonas sp.)	4 pts.	Begin applications when plants are first established in the field and repeat at 5 to 7 day intervals or as needed depending upon disease severity and environmental conditions.
Anthracnose	8-12 pts.	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.
Anthracnose	16-24 pts.	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.
Anthracnose	23/3-4 pts.	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.
	Algal Leaf Spot, Anthracnose  Anthracnose  Bacterial Blight (Pseudomonas sp.)  Anthracnose  Anthracnose	Algal Leaf Spot, Anthracnose  Anthracnose  Signature 13 bight (Pseudomonas sp.)  Anthracnose  8-10 pts.  4 pts.  4 pts.  4 pts.  16-24 pts.

<sup>\*</sup>Except California

# **GREENHOUSE AND SHADEHOUSE CROPS**

Notice to User: Kocide LF 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 LF can be used safely on all greenhouse and shadehouse grown crops. The user should determine if Kocide LF 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 LF according to specific rates given for those crops in pints per acre. One tablespoon of Kocide LF per 1000 square feet is equivalent to 1 pint per acre. Kocide LF 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 LF is applied to citrus seedlings grown in greenhouses or shadehouses.

Crop	Disease	Rate Per 1000 Sq Ft	Use instructions
Citrus (Non-Bearing Nursery)	Brown Rot, Citrus Canker, Greasy Spot, Melanose, Pink Pitting, Scab	6 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	2-4 TBSP	Apply weekly when plants begin to vine. Use the higher rates when conditions favor disease.
Eggplant	Alternaria Blight, Anthracnose, Phomopsis	3 TBSP	Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity.
Pepper	Bacterial Spot	3-4 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.
Tomato	Anthracnose, Bacterial Speck, Bacterial Spot, Early Blight, Gray Leaf Mold, Late Blight, Septoria Leaf Spot	3-6 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.

### **ORNAMENTALS**

Use Kocide LF 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 1½ to 5 pints per acre of Kocide LF. When new growth is present, apply as a thorough cover spray at rates ranging from 1½ to 4 pints per acre of Kocide LF. One tablespoon of Kocide LF per 1,000 square feet is equivalent to 1 pint 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 LF 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 LF 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 ornamentals and nursery plants, and the wide range of growing conditions, it is impossible to test every one for sensitivity to Kocide LF. Neither the manufacturer nor seller has determined whether or not Kocide LF can be safely used on ornamental or nursery plants not listed on this label. The user should determine if Kocide LF 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.

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Dusty Miller  Senecio cineraria  Echinacea  Echinacea spp.  Bacterial Leaf Spot (Pseudomonas cichorii)  Elm, Chinese  Ulmus parvitolia  Euonymus  Euonymus  Euonymus spp.  Anthracnose, Botrytis Blight  Fem, Boston*  Nephrolepis exaltata  Bacterial Leaf Spot  Fem, Holly  Cyrtomium falcatum  Pseudomonas Leaf Spot  Fig. Weeping*  Ficus benjamina  Bacterial Leaf Spot  Filbert (Omamental)*  Conylus spp.  Filbert (Omamental)*  Fir Abies spp.  Gardenia  Gardenia jasminoides  Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Bernaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Gladiola  Gladiolus spp.  Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot  Gladiola  Gladiolus spp.  Alternaria Leaf Spot, Anthracnose, Bacterial Leaf Blight,  Botrytis Gray Mold  Golden Rain Tree  Koelreuteria paniculata  Bacterial Leaf Spot  Bacterial Leaf Spot  Hawthom*  Crataegus spp.  Bacterial Leaf Spot  Holly*  Hibiscus 4/  Hibiscus spp.  Bacterial Leaf Spot  Honeylocust*  Gleditisia triacanthos  Bacterial Leaf Spot  Honeysuckle, Tatarian*  Lonicera tatarica  Impatiens  Impatiens  Impatiens  Impatiens  Indian Hawthom 5/  Raphiolepis indica  Anthracnose, Entomosporium Leaf Spot	Dumb Cane*		Bacterial Leaf Spot
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Fem, Holly  Cyrtomium falcatum  Pseudomonas Leaf Spot  Fig. Weeping*  Ficus benjamina  Bacterial Leaf Spot  Filbert (Ornamental)*  Convius spp.  Filbert Blight  Fir'  Abias spp.  Gardenia Jasminoides  Gardenia Gardenia Jasminoides  Geranium  Pelargonium spp.  Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Gladiola  Gladiolus spp.  Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot  Botrytis Gray Mold  Golden Rain Tree  Koelreuteria paniculata  Grape Ivy*  Cissus spp.  Bacterial Leaf Spot  Hawthom*  Crataegus spp.  Bacterial Leaf Spot  Hibiscus 4/  Hibiscus spp.  Bacterial Leaf Spot  Honeylocus*  Honeylocus*  Gladiisia triacanthos  Bacterial Leaf Spot  Honeysuckle, Tatarian*  Lonicera tatarica  Impatiens  Impatiens  Impatiens  Indian Hawthom 5/  Raphiolepis indica  Bacterial Leaf Spot  Anthracnose, Entomosporium Leaf Spot			
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Fir*  Abies spp.  Gardenia  Gardenia jasminoides  Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Geranium  Pelargonium spp.  Gladiola  Gladiolus spp.  Gladiolus spp.  Golden Rain Tree  Koelreuteria paniculata  Grape Ivy*  Hawthorn*  Crataegus spp.  Hibiscus 4/  Hibiscus spp.  Honeylocust*  Gleditisia triacanthos  Honeysuckle, Tatarlan*  Impatiens  Impatiens  Impatiens  Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot  Alternaria Leaf Spot, Anthracnose, Bacterial Leaf Blight,  Botrytis Gray Mold  Bacterial Leaf Spot  Anthracnose, Entormosporium Leaf Spot			
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Grape Ivy* Cissus spp. Bacterial Leaf Spot  Hawthom* Crataegus spp. Fire Blight  Hibiscus 4/ Hibiscus spp. Bacterial Leaf Spot  Holly* Ilex spp. Bacterial Blight, Leaf Spots  Honeylocust* Gleditsia triacanthos Bacterial Leaf Spot  Honeysuckle, Tatarian* Lonicera tatarica Bacterial Leaf Spot  Impatiens Impatiens sallerana Bacterial Leaf Spot  Indian Hawthorn 5/ Raphiolepis indica Anthracnose, Entomosporium Leaf Spot	Golden Rain Tree	Koelreuteria paniculata	Rectarial Leaf Shot
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Honeysuckle, Tatarian* Lonicera tatarica Bacterial Leaf Spot Impatiens Impatiens Bacterial Leaf Spot Indian Hawthorn 5/ Raphiolepis indica Anthracnose, Entomosporium Leaf Spot			
Impatiens Impatiens salierana Bacterial Leaf Spot Indian Hawthorn 5/ Raphiolepis indica Anthracnose, Entomosporium Leaf Spot			
Indian Hawthorn 5/ Raphiolepis indica Anthracnose, Entomosporium Leaf Spot			
Iris 6/* Bacterial Leaf Spot			
	Iris 6/*	Irls spp.	Bacterial Leaf Spot

Crop	Latin Name	Disease
lvy (English, Algerian) 1/	Hedera helix, H. canariensis	Xanthomonas Leaf Spot
Ixora	Ixora coccinea	Xanthomonas Leaf Spot
Juniper	Juniperus spp.	Anthracnose, Phomopsis Twig Dieback*
Lantana	Lantana camera	Bacterial Leaf Spot
Leyland Cypress*	X Cupressocyparis leylandii	Cercospora Needle Blight
Litac	Syringa spp.	Cercospora Leaf Spot, Pseudomonas Blight*
Lily, Easter 2/	Lilium longiflorum	Botrytis Blight
Linden*	Tilia spp.	Anthracnose, Leaf Blight
Lobiolly Bay	Gordonia lasianthus	Anthracnose
Loquat	Eriobotrya japonica	Colletotrichum spp., Entomosporium maculata
Magnolia (Southern)	Magnolia grandiflora	Algal Leaf Spot, Anthracnose, Bacterial Leaf Spot
Magnolia (Sweet Bay)	Magnolia virginiana	Anthracnose
Magnolia (Oriental)	Magnolia soulangiana	Bacterial Leaf Spot
Mandevilla	Mandevilla spp.	Anthracnose
Maple*	Acer spp.	Pseudomonas Leaf Blight
Marigold	Tagetes spp.	Alternaria Leaf Spot, Botrytis Leaf Rot, Cercospora Leaf Spot, Flower Rot
Mountain-Ash*	Sorbus spp.	Fire Blight
Mulberry, Contorted*	Morus bombycis	Bacterial Leaf Spot
Mulberry, Weeping	Morus alba	Bacterial Leaf Spot
Narcissus*	Narcissus spp.	Leaf Blight
Nephthytis*	Syngonium podophyllum	Bacterial Leaf Spot
Oak*	Quercus spp.	Leaf Spots
Oak, Laurei	Quercus laurifolia	Algal Leaf Spot (Cephaleuros virescens)
Oleander	Nerium oleander	Bacterial Leaf Spot, Fungal Leaf Spot
Oregon Grapeholly*	Mahonia acquifolium	Leaf Spots
Pachysandra	Pachysandra procumbens	Volutella Leaf Blight
Palm, Date	Phoenix canariensis	Pestalotia Leaf Spot
Pairn, European Fan	Chamaerops humilis ,	Pestalotia Leaf Spot
Palm, Parlor*	Chamaedorea elegans	Bacterial Leaf Spot
Palm, Queen	Arecastrum romanzoffianum	Exosporium Leaf Spot, Phytophthora Bud Rot
Palm, Washingtonia	Washingtonia robusta	Pestalotia Leaf Spot
Peach (Flowering) 3/*	Prunus spp.	Bacterial Blast, Brown Rot, Fire Blight
Pear (Flowering)	Pyrus calleryana	Fire Blight, Leaf Spot  Bacterial Leaf Spot (Pseudomonas spp.*, Xanthomonas spp.)
Pentas (Egyptian Star) Peony	Pentas spp. Paeonia spp.	Bacterial Lear Spot (Eseucomonas spp. , Aanthomonas spp.)  Botrytis Blight
Periwinkle	Catharanthus roseus, Vinca spp.	Phomopsis Stem Blight
Philodendron	Philodendron selloum	Bacterial Leaf Spot
Phlox	Phlox spp.	Alternaria Leaf Spot
Photinia (Red-tip)	Photinia x fraseri, P. glabra	Anthracnose, Entomosporium Leaf Spot
Pine*	Pinus spp.	Needlecasts
Pistachio	Pistacia chinensis	Anthracnose
Plantain Lily 6/	Hosta spp.	Bacterial Leaf Spot
Plum (Flowering) 3/*	Prunus spp.	Bacterial Blast, Bacteria Leaf Spot, Brown Rot, Fire Blight
Pothos*	Scindapsus spp.	Bacterial Leaf Spot
Powder Puff Plant	Calliandra spp.	Bacterial Leaf Spot
Pyracantha	Pyracantha spp.	Fire Blight, Scab
Rhododendron	Rhododendron spp.	Alternaria Flower Spot
Rose 1/	Rosa spp.	Black Spot, Powdery Mildew
Snapdragon	Antirrhinum majus	Anthracnose, Dieback, Downy Mildew
Spathe Flower*	Spathiphyllum spp.	Bacterial Leaf Spot
Spirea*	Spiraea spp.	Fire Blight
Spruce*	Picea spp.	Needlecasts
Sycamore	Platanus spp.	Anthracnose, Leaf Spots*
Tulip	Tulipa spp.	Anthracnose, Botrytis Blight
Umbrella Tree*	Schefflera spp.	Bacterial Leaf Spot
Verbena Vibumum	Verbena spp.	Xanthomonas Leaf Spot Anthracnose
	Viburnum odoratissimum, V. suspensum, V. plicatum	
Viola (Pansy, Violet)	Viola spp.	Downy Mildew
Willow	Salix spp.	Anthracnose
Yew*	Taxus spp.	Needle Blight
Yucca (Adam's needle) Zinnia*	Yucca spp.' Zinnia spp.	Cercospora Leaf Spot, Septoria Leaf Spot Leaf Spots

<sup>\*</sup>Except California

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

<sup>1/</sup> 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.

<sup>2/</sup> Apply Kocide LF at 4 to 6% pints per acre.

<sup>3/</sup> Apply dormant through bloom only.

<sup>4/</sup> Hibiscus - Do not apply to plants in flower.

<sup>5/</sup> For Indian Hawthorn use 2% to 5% pints per acre.

<sup>6/</sup> Some cultivars may be sensitive to Kocide LF.

# **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, tack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform 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 LF has been cleared from the last sprinkler head.

# 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 it 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, quickclosing 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 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 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.

When mixing, fill the nurse tank half full with water. Add Kocide LF slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. 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 LF should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set irrigation systems. Shut off injection equipment after treatment and continue to operate irrigation system until Kocide LF 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 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.

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# **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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