# 6/29/2010





## U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7504P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460

NOTICE OF PESTICIDE:

\_\_\_\_Registration
\_\_X\_Reregistration
(under FIFRA, as amended)

EPA	Reg.	Number

er: Date of Issuance:

19713-321

JUN 2 9 2010

Term of Issuance:

Name of Pesticide Product:

KOP-Hydroxide 50W

Name and Address of Registrant (include ZIP Code):

**Drexel Chemical Company** 

P.O. Box 13327

Memphis, TN 38113

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA provided that you:

1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.

Signature of Approving Official:

Date:

JUN 2 9 2010

Tony Kish

Product Manager 22 Fungicide Branch

Registration Division (7504P)

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- 2) Remove "rice" from the label.
- 3) Specify an area to treat corn or collar rot in apples and phytophthora foot rot in citrus.
- 4) Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

#### "DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust."

5) The Environmental Hazards text currently on the label must be revised to read:

"This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate."

- 6) The eyewash text appearing in the Agricultural Use Requirements box differs from the text appearing in the revised RED, this text must be revised to read:
- "For at least seven days following the application of copper-containing products in greenhouses: -at least one container or station designed specifically for flushing eyes is available in operating condition with the WPS-required decontamination supplies for workers entering the area treated

with copper-containing products,

- -workers are informed orally, in a manner they can understand:
- -that residues in the treated area may be highly irritating to their eyes,
- -that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes,
- -that if they do get residues in their eyes, they should immediately flush their eyes with the eye flush container that is located with the decontamination supplies and
- -how to operate the eye flush container or eye flush station."
- 7) Per the revised RED, the following spray drift text must be added to the label and must read:

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"Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and the method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluated all factors and make appropriate adjustments when applying this product.

### **Droplet Size**

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

### Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

#### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

#### Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

#### Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

#### For aerial application:

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

#### For groundboom application:

Do not apply with a nozzle height greater than 4 feet above the crop canopy."

8) To the Green Beets, change "7-day interval" to "10-day interval".

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To Walnuts, change "3-day interval" to "7-day interval".

On page 8 and 18, On All other Ornamentals, change "3-day interval" to "7-day interval".

## Apples and pears:

Add to the use restrictions section:

"The maximum application rate for use between silver-tip and green tip is 6.0 lbs Cu<sup>+2</sup> per acre. Only one application per season is permitted."

#### Apricots:

Since dormant/late dormant use does not appear on the label, the text "During the dormant or late dormant period, do not apply more than 18 pounds of copper (16 lbs of this product) per acre per application" or "During the dormant or late dormant period, do not apply more than 18 pounds of copper (16 lbs of this product) per acre [4 paks per 5 acres] per application" appearing in the master label and water-soluble packaging label, should be removed.

#### Beans:

The rate of 1 to 3 lbs of product (.5 to 1.5 lbs of  $Cu^{+2}$ ) per acre appearing on the label exceeds the allowable rate of 0.79 lbs  $Cu^{+2}$  per acre. The label must be revised.

#### Beets:

The text "Apply at 7-day intervals" conflicts with the required 10-day minimum retreatment interval. The label must be revised.

Broccoli, Brussels sprouts, cabbage, cauliflower, greens (collard, mustard, turnip): The rate of 1 to 2 lbs of product (.5 to 1 lbs of Cu<sup>+2</sup>) per acre appearing on the label exceeds the allowable rate of 0.53 lbs Cu<sup>+2</sup> per acre. The label must be revised.

#### Filberts:

Add "Permitted only in WA and Oregon."

#### Mamey Sapote:

The rate of 6 to 8 lbs of product (3 to 4 lbs of Cu<sup>+2</sup>) per acre appearing on the label exceeds the allowable rate of 2.1 lbs Cu<sup>+2</sup> per acre. The label must be revised.

#### Onions

The text "or as needed" must be deleted from the use directions for onions.

#### Walnuts:

The minimum retreatment interval must be revised from 3 to 7 days.

#### Citrus:

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Delete the text "continue as needed" under the use directions to control phytophthora brown rot and Septoria spot.

The directions to "apply 2 pounds of this product per 100 gallons of water (4 to 6.3 lbs per acre" to treat field nursery grown citrus conflicts with the citrus rate restriction of 3.15 lbs Cu<sup>+2</sup> per acre and the ornamental rate restriction of 2.0 lbs Cu<sup>+2</sup> per acre. The label must be revised.

Additionally, the text "or as needed" appearing in the section "Apply this product at 28-day intervals or as needed depending on disease severity" must be deleted from the label.

### Greenhouse and Shadehouse Crops:

The text "One level tablespoon of this product per 1,000 square feet is equivalent to 1 pound per acre" must be revised. One level tablespoon of this product per 1,000 square feet is equal to 0.259 lbs metallic copper per acre or .518 lbs of product per acre.

Peppers – The text "Do not apply more than 3.15 lbs of copper per acre per application" conflicts with the maximum allowable individual application rate of 0.79 lbs metallic copper per acre per application. The label must be revised.

Tomato – Rates in excess of 2 tablespoons per 1000 square feet (~.524 lbs metallic copper per acre) exceed the maximum allowable rate of 0.53 lbs copper per acre. The label must be revised.

- 9) On page 10 and 19, change "Our Recommendations for Use" to "Directions for Use".
- 10) To the Water Soluble Packaging label only.

#### Bananas:

The rate of up to 4 lbs product (2 lbs Cu+2) per acre to control black pitting exceeds the allowable rate of 1.05 lbs Cu+2 per acre. The label must be revised.

Raspberries (Santiams, Logans, Boysens, Marions, Auroas, Cascades, Chehalems, and Thornless Evergreens):

The rate of 1 pak per 4 acres (2.5 lbs metallic copper per acre) exceeds the maximum allowable application rate of 2.0 lbs metallic copper per acre. The label must be revised.

#### Blueberries:

If each water soluble pak contains 20 lbs of product (10 lbs Cu+2), then the rate of 3 paks (60 pounds of product or 30 lbs Cu+2) per 10 acres exceeds the allowable rate of 2.1 lbs Cu+2 per acre. The label must be revised.

#### Mamey Sapote:

As noted above, the rate of 6 to 8 lbs of product (3 to 4 lbs of Cu+2) per acre appearing on the

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label exceeds the allowable rate of 2.1 lbs Cu+2 per acre. In addition, if each water soluble pak contains 20 lbs of product (10 lbs Cu+2) the rate of 3 paks per 5 acres (60 pounds of product or 30 lbs Cu+2) or 6 lbs Cu+2 per acre also exceeds the allowable rate of 2.1 lbs Cu+2 per acre. The label must be revised.

A stamped copy of the label is enclosed for your records. You must submit one copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this letter or the next round of printing must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA. Your release for shipment of the product constitutes acceptance of these conditions. This label supersedes all other previously accepted labels. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.

MASTER LABEL CONSISTING OF SPLIT LABELS FOR REGULAR AND WATER-SOLUBLE PACKAGING



# KOP®-Hydroxide 50W

Agricultural Fungicide-Bactericide

#### **ACTIVE INGREDIENT:**

Copper Hydroxide*	 77.0%
OTHER INGREDIENTS:	 23.0%
TOTAL:	 100.0%

\*[CAS No. 20427-59-2] \*Metallic copper equivalent is 50%.

## KEEP OUT OF REACH OF CHILDREN **DANGER / PELIGRO**

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

#### See FIRST AID Below

EPA Reg. No. 19713-321 EPA Est. No. 19713-GA-001 **Net Content:** 20 Pounds

#### FIRST AID

- 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
- · 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
- Do not give anything by mouth to an unconscious or convutsing person.

#### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial spiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated 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 container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product, including health concerns, medical emergencies or pesticide incidents, call the National Pesticide Information Center at 1-800-858-7378.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of

#### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER. Corrosive. Causes irreversible eye damage. Do not get in eyes, Causes skin irritation, Harmful if swallowed, absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with the skin, eyes or clothing. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material such as polyethylene or polyvinyl chloride. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart.

(Continued)

#### PRECAUTIONARY STATEMENTS

Mixers, loaders, applicators, and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves such as polyethylene or polyvinyl chloride, shoes plus socks, and protective

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d) (4-8)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### **USER SAFETY RECOMMENDATIONS**

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZAROS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. This product may contaminate water through runoff. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

**USE INFORMATION** 

Use this product according to "DIRECTIONS FOR USE". This product can be applied from aircraft and ground spraying equipment. Depending upon equipment used and the specific crop, the volume applied per acre differs. Refer to the general \*MINIMUM RECOMMENDED SPRAY VOLUME" table.

> ACCEPTED with COMMENTS In EPA Letter Dated: JUN 2 9 2010

Manufactured By:

Drexel Chemical Contobarty deral Insecticide, P.O. BOX 13327, MEMPHIS, TI, 38F Inspiride, and Rodenticide Act SINCE 1992 as amended, for the pesticide

registered under EPA Reg. No.

9713.321



#### **MIXING INSTRUCTIONS**

This product may be applied as an aerial, ground dilute or ground concentrate spray unless specifically directed otherwise by crop. When selecting a use rate for this product, do not apply less than the label recommended minimum amount. Under heavy disease pressure or when conditions favor such, use the higher rate and shorter spray intervals specified for each crop. In addition, use the higher rates for larger mature tree crops.

The per acre use rate of this product is applicable for both dilute and concentrate spraying. Consult this product label for specific rates and timing of application by crop.

Complete spray coverage is essential to assure optimum performance from this product. When treating on a concentrate basis or by aerial application, unless you have had specific previous experience, it is advisable to test for compatibility and crop tolerance prior to full scale commercial utilization.

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 manufacturer's specifications and environmental conditions are within those recommended by state and local regulatory authorities. When mixing, fill spray tank one-half full with water. Add this product slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Spreaders, stickers, spray and crop oil (cleared for application to growing crops) should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank.

Note: THIS PRODUCT SHOULD NOT BE APPLIED IN A SPRAY SOLUTION HAVING A pH LESS THAN 6.5 OR GREATER THAN 9.0 AS PHYTO-TOXICITY MAY OCCUR.

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 this product resulting in possible phytotoxicity or loss of effectiveness.

The materials used in the construction of application equipment should be identified before it is used to apply this product. Agricultural chemicals such as this product often react with soft metals such as aluminum and some synthetic materials such as plastics. After completing the application of this product with equipment containing these materials and before overnight storage, thoroughly flush the mixing and application system with clean water.

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

## sprays per season. 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 (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the

Do not enter or allow worker entry into treated areas during the REI of 48 hours. 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 wash.

PPE required for early entry to treated areas that is permitted under the WPS 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, shoes plus socks, and 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.

Do not enter or allow others to enter treated areas until sprays have dried.

#### Minimum Recommended Spray Volume

Given as Gallons per Acre (GPA) to be used when applying this product:

	1	G	round
	Aerial	Dilute	Concentrate
Vegetables and Field Crops	3	20	-
Small Fruits	5	150	50
Vines	5	150	50
Fruit and Nut Trees*	10	400	50
Citrus	10	800	100 (20 FLORIDA)*

\* On young fruit trees, use a minimum of 1 gallon spray per acre.

\*\* 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 of spray volume.

#### CHEMIGATION INSTRUCTIONS

Do not apply this product through any irrigation 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.

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, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems.

Do not apply this product through any other type of irrigation systems.

Crop Injury, lack 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 your State Extension Service Specialists, equipment manufacturers or other

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.

A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of Injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

#### SAFETY DEVICES

- The systems designated above 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.
- All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) 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.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.



- 5) 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.
- 6) 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.

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 a 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 system must contain functional intertocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is not a water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions refer to statements (2), (3), (4), (6), and (7) in the section on SAFETY DEVICES.

#### POSTING INSTRUCTIONS

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, inpatient clinics, nursing homes or any public areas such as schools, parks, playgrounds or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any location affording maximum visibility to the sensitive areas.

The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2.5 inches tall and all letters and the symbol shall be in a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTI-CIDES IN IRRIGATION WATER.

Note: This sign is in addition to any sign posted to comply with the Worker Protection Standard (WPS).

#### CROPS

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.

#### APPLICATION FOR FROST INJURY PROTECTION

Bacterial ice Nucleation inhibitor: Application of this product 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 thereby provide some protection against light frost. The degree of frost protection will vary with weather conditions and other factors. Not recommended for those geographical areas where weather conditions favor severe frost.

Crop	Disease	Rate per Acre	
Alfalfa	Cercospora, Leptosphaerulina leaf spots 1 fb.		
	USE INSTRUCTIONS: Apply before each har threatens. Note: Spray injury may occur with sensitive v. Lahontan.	*	

Use Restrictions: Do not apply more than 0.53 lbs. of copper (1 lb. of this product) per acre per application. Do not apply more than 1.12 lbs. of copper (2.2 lbs. of this product) per acre per year. Minimum retreatment interval is 30 days.

Almond

ds	Coryneum blight Blossom brown rot	8 to 12 lbs.	
	USE INSTRUCTIONS: Dormant application - Apply before foliage buds begin to swell. Use higher rates when rainfall is heavy and disease pressure is high.		
	Coryneum blight, Blossom brown rot	3 lbs.	
	USE INSTRUCTIONS: Early bloom (popcorn) application - Apply before full bloom. Use higher rates when rainfall is heavy and disease pressure is high. Note: To avoid plant injury, do not use above rate after full bloom.		
	Bacterial blast (Pseudomonas)	3 to 16 lbs.	
	USE INSTRUCTIONS: Apply at dormant to e Note: injury may occur from postbloom spra Neptus varieties.		
	Bacterial blast (Fseudomonas)	1 lb.	
	USE INSTRUCTIONS: For control in sprintle orchards or where disease is severe, apply bloom intervals or just before sprinkling.  Note: hjury may occur from postbloom spra Neptus varieties.	at 2-week post-	

Use Restrictions: During the dormant or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per application. Mirimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (3 lbs. of this product) per acre per application. Mirimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (36 lbs. of this product) per acre per year.

Apples	Anthracnose, European canker, Pseudomonas	12 to 16 lbs.	
USE INSTRUCTIONS: Apply before Fall (rates under severe disease conditions.) Nete: Use on yellow varieties may cause avoid, pick before spraying.	•		
	Fire blight	1 lb.	
	USE INSTRUCTIONS: Make application between silver tip and green tip. Apply as a full cover spray.  Note: Crop injury may occur from late application; discontinue use when green tip reaches one-half inch.		
	Crown or Collar rot	4 lbs.	
	USE INSTRUCTIONS: Mix in 100 gals, of w of suspension as a drench on the lower trunt Apply either in early Spring or late Fall after Note: Do not use if soil pH is below 5.5 sin	k area of each tree. harvest.	

Use Restrictions: During the Fall or late dormant period, do not apply more than 8 bs. of copper (16 bs. of this product) per acre per application. Only one application is permitted per season. During the bloom or growing period or not apply more than 0.5 b. of copper (1 b. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 16 bs. of copper (32 bs. of this product) per acre per year.

16 IDS. 01 C	opper (oz ibs. or tilis product) per acie per year	•
Apricots	Coryneum blight (Shot hole), Blossom brown rot	3 lbs.
	USE INSTRUCTIONS: Apply at popcom to f	uli bloom. result in crop injury.

Use Restrictions: During the dormant or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (3 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (36 lbs. of this product) per acre per year.

Atemoya	Anthracnose	3 lbs.
	Make initial application just before flowering weekly schedule until just before harvest. Ap water for thorough coverage.	and repeat on a ply in sufficient

Use Restrictions: Do not apply more than 3.15 lbs. of copper (6.3 lbs. of this product) per acre per application. Do not apply more than 12.5 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.

Avocados	Anthracnose, Blotch, Scab	6.3 lbs.
	USE INSTRUCTIONS: Apply when bloom but and continue application at monthly intervals applications.	ids being to swell for 5 to 6

Use Restrictions: Do not apply more than 3.15 lbs. of copper (6.3 lbs. of this product) per acre per application. Do not apply more than 18.9 lbs. of copper (37.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.



Сгор	Olsease	Rate per Acre	Crop	Disease	Rate per Acre
ananas	Sigatoka	2 lbs.	Cacao	Black pod	2 to 4.5 lbs.
	USE INSTRUCTIONS: Apply by air in 3 combining 0.5 gal. of a suitable agricultu on a 7-day schedule throughout the wet a 21-day intervals during dry periods.	ral spray oil. Apply		USE INSTRUCTIONS: Begin application rainy season and continue while infection Sprays should be made at 2 to 4.5 pours to 21 days in high rainfall areas at varying on the same seventy. For drier areas, whe applications are recommended during or	conditions persist ds as often as 14 grates depending ere 2 to 4
	Black pitting	2.1 lbs.		periods and at long intervals, use 4.5 lbs according to disease incidence and plan	, per acre ting density.
	USE INSTRUCTIONS: Apply in 100 gats to the fruit stem and include the basal pc crown. Apply during the first and second emergence.	ortion of the leaf	this product) pe	ns: Do not apply more than 2.25 lbs. of co ir acre per application. Do not apply more to s. of this product) per acre per year. Minim ays.	han 15.75 lbs, of
Use Restriction	ns: Do not apply more than 1.05 lbs. of co	opper (2.1 lbs. of	Cantaloupes,	Downy mildew	2 lbs.
this product) pe	r acre per application. Do not apply more s. of this product) per acre per year. Minim	than 18.9 lbs. of	Honeydews, Muskmelons	USE INSTRUCTIONS: Begin application are favorable for disease development a intervals as needed, depending on disease	nd repeat at 5-day
Beans	Bacterial blight (halo and common), Brown spot	1 to 3 lbs.	this product) pe	ns: Do not apply more than 1.05 lbs. of co er acre per application. Do not apply more s. of this product) per acre per year, Minim	than 5.25 lbs. of
	USE INSTRUCTIONS: Use the higher re disease. For protective sprays, make fir	st application when	interval is 5 day	/8.	·
	plants are 6 inches high. Repeat on a 7- depending upon local conditions	to 14-day schedule	Carambola	Anthracnose	4.2 lbs.
	ns: Do not apply more than 0.79 lbs. of co			USE INSTRUCTIONS: Make initial applifiowering and repeat on a weekly schedule.	de until just before
uns product) pe	r acre per application. Do not apply more of this product) per acre per year, Minimu	then 4.74 lbs. of	Han Product of	harvest. Apply in sufficient water for thore	
interval is 7 day Beets (Green)	Black rot (Xanthomonas), Black leaf	1 to 2 lbs.	product) per ac	ns: Do not apply more than 2.1 lbs. of cop re per application. Do not apply more than product) per acre per year. Minimum retrea	10.5 lbs, of coppe
	spot (Alternaria), Downy mildew (Peronospora)	<b>†</b>	Carrots	Alternaria, Cercospora leaf spot	2 lbs.
	USE INSTRUCTIONS: Apply at 7-day in of diseases of these crops, begin applic	ation after		USE INSTRUCTIONS: Begin application threatens and repeat at 7-day intervals a depending on disease.	
	transplants are set in the field or shortly field seaded crops or when conditions for development. Use higher rates when con disease.	avor disease	product) per an	ons: Do not apply more than 1 lb. of coppe e per application. Do not apply more than t luct) per acre per year. Minimum reatreams	ibs. of copper (16
this product) pe	ns; Do not apply more than 1.31 lbs. of co r acre per application. Do not apply more s. of this product) per acre per year. Minim	then 7.86 lbs. of	Celery, Celeriac	Cercospora early blight, Septoria late blight, Bacterial blight	2 lbs.
interval is 10 da Blackberries (Santlams,	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust,	4 lbs.	,	USE INSTRUCTIONS: Begin application established in the field, repeating at 7-du depending on disease seventy and envir conditions.	y Intervals
Logans, Boysens, Marions, Auroras,	Pseudomonas blight  USE INSTRUCTIONS: Apply as delayed after training in the Spring. Make Fall apharvest. Add 1 qt. of crop oil per acre.		product) per ac	ns: Do not apply more than 1 ib. of coppe re per application. Do not apply more than s product) per acre per year. Minimum reat	5.3 lbs. of copper
Cascades, Chehalems, and Thomless	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust,	2 lbs.	Cherries	Dead bud (Pseudomonas syringae), Coryneum blight	8 to 12 tos.
evergreens)	Pseudomonas blight  USE INSTRUCTIONS: Apply when leaf I and repeat when flower buds show white cop oil per acre.			USE INSTRUCTIONS: Make first application in Fall before heavy rains and a second at late dormant. In orchards where the disease is severe, a spray should also be applied shortly after harvest. Add 1 pt. of superior-type oil per 100 gals, of water as a dibute spray.	
	Note: Crop injury may occur if applied to			Brown rot, Biossom blight	3 lbs.
Uso Doctricto	certain conditions such as hot or prolong Discontinue application if signs of crop	injury appear.		USE INSTRUCTIONS: Apply a full cover stage and a second application at full bit	spray at popcom
product) per acı	ns: Do not apply more than 2 lbs. of copp re per application. Do not apply more than product) per acre per year. Minimum retres	10 lbs. of copper	more than 8 lbs	Note: To avoid injury, do not use after fu ons: During the cormant or late dormant pe s, of copper (16 lbs. of this product) per act	niod, do not apply re per application.
Bluebernes	Bacterial canker	4.2 lbs.	do not apply m	atment interval is 7 days. During the bloom ore than 1.5 lbs. of copper (3 lbs. of this pr	oduct) per acre pe
	USE INSTRUCTIONS: Make first applic		application, Mi	nimum retreatment interval is 5 days. Do no er (36 lbs. of this product) per acre per yea	t apply more than
	rains and a second application four wee		Chives	Downy mildew	1 lb.
product) per ac (16.8 lbs. of this	ns: Do not apply more than 2.1 lbs, of co re per application. Do not apply more than s product) per acre per year. Minimum retr	8/4 lbs. of copper		USE INSTRUCTIONS: Begin application established in the field. Repeat application as dictated by disease conditions.	ns when plants are
days.			Use Restriction	ons: Do not apply more than 0.53 lb. of cop	per (1 lb. of this
Broccoli, Brussels sprouts,	Black rot (Xanthomonas), Black leaf spot (Altemaria), Downy miklew (Peronospora)	1 to 2 lbs.	product) per acre per application. Do not apply more than 2.65 (5.3 lbs. of this product) per acre per year. Minimum reatream days.		eament interval is
Cabbage, Cauiflower, Greens	USE INSTRUCTIONS: Apply at 7-day intervals. For control of diseases of these crops, begin application after		Coffee	Coffee berry disease (Colletotrichum coffeanum)	4.2 lbs.
(Collard, Mustard,	transplants are set in the field or shortly field seeded crops or when conditions to development. Use higher rates when co	avor disease		USE INSTRUCTIONS: Apply first spray before onset of long rains and then at 1-picking.	
Turnip)	disease.  Note: Reddening of older leaves may cand flecking of wrapper leaves may occ	occur on Broccoli		Bacterial blight (Pseudomonas syringae)	4,2 lbs
product) per ac	and necking of wrapper leaves may occurs: Do not apply more than 0.53 lb. of coore per application. Do not apply more than product) per acre per year. Minimum retre	pper (1 lb. of this 1 2.65 lbs. of copper		USE INSTRUCTIONS: Begin spray progonset of the long rains and continue thro season at 14-day intervals. The critical trontrol this disease is just before, during	ughout the rainy ime of spraying to and after flowering
days.			(Continued)	especially when coinciding with wet wea	ther.



Disease	Rate per Acre	Crop	4
	<del></del>	Ginseng	Alb
<u> </u>			us
			Ro
	<del></del>		Ap
disease			ms
	or dikte eoren		the
Begin treatment at the start of wet seaso			N d
			Ça
re per application. Do not apply more than	12.6 lbs. of copper		tha tha fur
Fruit rot	4.2 lbs.	this product) p	er ac
One or two additional applications a 7-d	ay intervals may be	interval is 7 da Grapes	
Rose bloom	4.2 lbs.		U:
			to
			88 N
			VE E
Spring before bud burst. One or two add	litional applications		Pe
at 7-day intervals may be required depe severity.	nging upon disease	Use Restricti	
Tip blight (Monolinia), Stem and Leaf blight, Red leaf spot	4.2 lbs.	(40 lbs. of this days.	prod
		Guava	A
prebloom.	rueu ពងលពិប្រ		fic
			he
		this product) p copper (9.8 ib	er ac
Angular leaf spot, Downy mildew	1.5 to 2 lbs.		7 D
			U
			bi
s. of this product) per acre per year. Minim		Use Restrict	N
Leaf spot, Anthracnose	5 lbs.	product) per a	cre p
		days.	s proc
during wet conditions in the Spring. Mak		Kiwi	P
rappiication after harvest.		1	
no. Da salanati mam that 0 f the -f	nor/5 lbs of this	.	_
ns: Do not apply more than 2.5 lbs. of co re per application. Do not apply more than product) per acre per year. Minimum retres	10 lbs. of copper		U: ac 3
re per application. Do not apply more than roduct) per acre per year. Micimum retres Phoma leaf spot, <i>Rhizoctonia</i> , Follage blight	10 lbs. of copper atment interval is 10	Use Restricti producti per a (12.6 fbs. of th 30 days.	ac 3 lons:
re per application. Do not apply more than product) per acre per year. Minimum retres  Phoma leaf spot. Rhizoctonia, Foliage bilght  USE INSTRUCTIONS: Begin application	10 lbs. of copper atment interval is 10 lbs. 1.5 lbs.	product) per a (12.6 fbs. of the 30 days. Lettuce,	ac 3 ons: cre p
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re per application. Do not apply more than broduct) per acre per year. Micimum retreat product) per acre per year. Micimum retreat product) per acre per year. Micimum retreat product) per acre per year. Micimum retreat depending upon disease severity and econditions.  In the per application. Do not apply more than product) per acre per year. Minimum retreat product) per acre per year. Minimum retreated phomopsis  USE INSTRUCTIONS: Begin application development of disease symptoms. Rejintervals or as needed, depending on disease product) per acre per year. Minimum retreated per application. Do not apply more than sproduct) per acre per year. Minimum retreated per application. Do not apply more than sproduct) per acre per year. Minimum retreated per acre per year. Minimum retreated blight  USE INSTRUCTIONS: Apply as a post August or early September. In seasons apply a second spray when three-fourth dropped. Add 1 pt. of superior-type oil water.  Eastern filbert blight  USE INSTRUCTIONS: Apply as a dilute water for thorough coverage. Make intil harvest in October before heavy Winter next application should be made in late	10 lbs. of copper atment interval is 10  1.5 lbs.  1.5 lbs.  1.5 lbs.  Ins when plants are at 7-day intervals nwironmental  Insper (1.5 lbs. of this a 3.95 lbs. of copper atment interval is 7  1.5 lbs.  In prior to be at spray at 7-day sease sevenity.  In prior to be at spray at 7-day sease sevenity.  In prior to be at spray at 7-day sease sevenity.  In prior to be at spray at 7-day sease sevenity.  In prior to be at spray at 7-day sease sevenity.  In prior to to this of this of the seavenity is 7.9 lbs. of copper seatment interval is 7  12 lbs.  In prior to the seave share at the seave share sease share at the seave share at the se	product) per a (12.6 fbs. of tr 30 days.  Lettuce, Endive, Escarole  Use Restrict product) per a (16 lbs. of this days.  Litchi  Use Restrict this product) (copper (9.8 lb interval is 7 d. Macadamia	Do Usapa di
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re per application. Do not apply more than broduct) per acre per year. Micimum retreat product) per acre per year. Micimum retreat product) per acre per year. Micimum retreat product) per acre per year. Micimum retreat depending upon disease severity and econditions.  In the per application. Do not apply more than product) per acre per year. Minimum retreat product) per acre per year. Minimum retreated phomopsis  USE INSTRUCTIONS: Begin application development of disease symptoms. Rejintervals or as needed, depending on disease product) per acre per year. Minimum retreated per application. Do not apply more than sproduct) per acre per year. Minimum retreated per application. Do not apply more than sproduct) per acre per year. Minimum retreated per acre per year. Minimum retreated blight  USE INSTRUCTIONS: Apply as a post August or early September. In seasons apply a second spray when three-fourth dropped. Add 1 pt. of superior-type oil water.  Eastern filbert blight  USE INSTRUCTIONS: Apply as a dilute water for thorough coverage. Make intil harvest in October before heavy Winter next application should be made in late	10 lbs. of copper atment interval is 10  1.5 lbs.  1.5 lbs.  1.5 lbs.  1.5 lbs. of this as 3.95 lbs. of copper atment interval is 7  1.5 lbs.  1.6 lbs. of this are at 7-day lsease sevenity.  1.7 lbs. of this are at 7-day lsease sevenity.  1.8 lbs.  1.9 lbs. of copper seatment interval is 7  1.5 lbs.  1.5 lbs.  1.5 lbs.  1.5 lbs.  1.6 lbs.  1.7 lbs.  1.7 lbs.  1.8 lbs.  1.9	product) per a (12.6 fbs. of tr 30 days.  Lettuce, Endive, Escarole  Use Restrict product) per a (16 lbs. of this days.  Litchi  Use Restrict this product) (copper (9.8 lb interval is 7 d. Macadamia	Uuaaa 3 ons: cre p prod Uuasi sis pro Cool in N Cool in
re per application. Do not apply more than broduct) per acre per year. Minimum retreated bright water.  Phoma leaf spot. Rhizoctonia, Foliage blight  USE INSTRUCTIONS: Begin application first established in the field and repeat a depending upon disease severity and e conditions.  Inst. Do not apply more than 0.79 th. of core per application. Do not apply more than product) per acre per year. Minimum retree the light and the light an	10 lbs. of copper atment interval is 10  1.5 lbs.  1.5 lbs.  1.5 lbs.  1.5 lbs. of this a 3.55 lbs. of copper atment interval is 7  1.5 lbs.  1.5 lbs.  1.5 lbs.  1.5 lbs.  1.5 lbs. of this a 3.95 lbs. of copper atment interval is 7  1.5 lbs.  1.5 lbs.  1.5 lbs. of this a 7.9 lbs. of this a 7.9 lbs. of copper satment interval is 7  12 lbs.  12 lbs.  12 lbs.  12 lbs.  12 lbs.  12 lbs.  15 of the leaves have been 100 gals. of  12 lbs.  15 spray in adequate all application after rains begin. The February to early one month later. If or superior-type oil lbs. of this	product) per a (12.6 fbs. of tr 30 days.  Lettuce, Endive, Escarole  Use Restrict product) per a (16 lbs. of this days.  Litchi  Use Restrict this product) (copper (9.8 lb interval is 7 d. Macadamia	U aaa aa a
	Leaf rust (Hemileis vastatrix)  USE INSTRUCTIONS: Apply before the then at 21-day intervals while rains continuous when rainfall is heavy and disease iron spot (Cercospora coffeicola), Pink disease (Corticium salmonicolor)  USE INSTRUCTIONS: Use concentrate Begin treatment at the start of wet seast monthly intervals for three applications.  Ins: Do not apply more than 2.1 lbs. of cope per application. Do not apply more than product) per acre per year. Minimum retroped to the common service of the comm	Leaf rust (Hemileia vastatrix)  USE INSTRUCTIONS: Apply before the onset of rain and then at 21-day intervals while rains continue. Use higher rates when rainfall is heavy and disease pressure is high.  Iron spot (Cercospora coffeicola), Pink disease (Corticium salmonicolor)  USE INSTRUCTIONS: Use concentrate or dikte spray.  Begin treatment at the start of wet season and continue at monthly intervals for three applications.  Ins: Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this re per application. Do not apply more than 12.6 lbs. of copper sproduct) per acre per year. Minimum retreatment interval is  Fruit rot  Fruit rot  4.2 lbs.  USE INSTRUCTIONS: Make first application in late bloom. One or two additional applications a 7-day intervals may be required, depending upon disease severity.  Rose bloom  4.2 lbs.  USE INSTRUCTIONS: Apply phree sprays on 7-day schedule as soon as symptoms are observed.  Bacterial stem canker  4.2 lbs.  USE INSTRUCTIONS: Apply postharvest and again in Spring before bud burst. One or two additional applications at 7-day intervals may be required depending upon disease severity.  Tip blight (Monolinia), Stem and Leaf  blight, Red leaf spot  USE INSTRUCTIONS: Apply delayed dormant spray in the Spring. Repeat at 7-day intervals as needed through prebloom.  Ins: Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this re per application. Do not apply more than 6.3 lbs. of copper s product) per acre per year. Minimum retreatment interval is 7 and the producty per acre per year. Minimum retreatment interval is 7 and the producty per acre per year. Minimum retreatment interval is 7 and the producty per acre per year. Minimum retreatment interval is 5 and 1.5 to 2 lbs. of the producty per acre per year. Minimum retreatment interval is 5. of this producty per acre per year. Minimum retreatment interval is 7 and 1.5 be of copper (2.1 lbs. of the producty per acre per year. Minimum retreatment interval is 7 and 1.5 be of copper (2.1 lbs. of the producty per acre per year. Minimum	Leaf rust (Hemileia vastatrix)  USE INSTRUCTIONS: Apply before the onset of rain and then at 21-day intervals while rains continue. Use higher rates when rainfati is heavy and disease pressure is high. Iron spot (Cercospora coffeicola), Pink 2 lbs. (Icorticium salmonicolor)  USE INSTRUCTIONS: Use concentrate or dikite spray. Begin treatment at the start of wet season and continue at monthly intervals for three applications.  Ins: Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this re per application. Do not apply more than 12.6 lbs. of copper sproduct) per acre per year. Minimum retreatment interval is  Fruit rot  USE INSTRUCTIONS: Make first application in late bloom. One or two additional applications a 7-day intervals may be required, depending upon disease severity.  Rose bloom  USE INSTRUCTIONS: Apply three sprays on 7-day schedule as soon as symptoms are observed.  Bacterial stem canker  USE INSTRUCTIONS: Apply postharvest and again in Spring before bud burst. One or two additional applications at 7-day intervals may be required depending upon disease severity.  Tip blight (Monolinia), Stem and Leaf  USE INSTRUCTIONS: Apply delayed dormant spray in the Spring. Repeat at 7-day intervals as needed through prebloom.  Ins: Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this re per application. Do not apply more than 6.3 lbs. of copper (4.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 department and the product of the product) per acre per sprilication. Do not apply more than 5.5 lbs. of so of this product) per acre per year. Minimum retreatment interval is 7 department in

Crop	Disease	Rate per Acre
Ginseng	Alternaria leaf and stem blight	2.1 lbs.
	USE INSTRUCTIONS: Use as a tank mix Rowal 50W used in 100 gallons of water. applications as soon as plants emerge in Applications should be repeated every 7 become dormant in Fall. If scheduled app made before a rain shower, apply fungicle hours before the rain, giving the fungicide	Begin Spring. days until plants lication is to be des at least 8
	the plants. Use of a spreader-sticker or s Note: Atlemania leaf and stem blight are humid conditions such as those found in canopies of 2 to 4 years old Ginseng. It that the stems be thoroughly covered with therefore, use a spray apparatus which d fungicide throughout the canopy.	ticker is advised, most severe in the dense s very important n fungicide;
this product) per	a: Do not apply more than 1.05 lbs. of co acre per application. Do not apply more to of this product) per acre per year. Minimu	han 5.25 lbs. of
Grapes	Black rot, Powdery mildew, Downy mildew, Phomopsis, Leaf blight	2 lbs.
	USE INSTRUCTIONS: Begin application to bud break with subsequent application season, depending upon disease severit Note: Follaga injury may occur on coppe varieties such as Concord, Delaware, Nie Either test for sensitivity or add 1 to 3 ibs per pound of this product.	is throughout the y. If sensitive agra and Rosette.
product) per acre	s: Do not apply more than 3 lbs. of coppe per application. Do not apply more than oduct) per acre per year. Minimum retreat	20 ibs. of copper
Guava	Anthracnose, Red elgas USE INSTRUCTIONS: Make initial applic	
	flowering and repeat on a weekly schedu harvest. Apply in sufficient water for thoro a: Do not apply more than 1.23 lbs. of co	ugh coverage. pper (2.5 lbs. of
	acre per application. Do not apply more to of this product) per acre per year. Minimur.	
Hops	Downy mildew USE INSTRUCTIONS: Make crown treat	1 lb.
	but before training. After training, addition needed at 10-day intervals. Note: Discontinue use 2 weeks before h	nal treatments are
product) per acri	s: Do not apply more than 0.53 lb. of cop a per application. Do not apply more than roduct) per acre per year. Minimum retrea	2.85 lbs. of copper
Kiwi	Pseudomones syringae, Erwinia herbicola, Pseudomones fluorescens	4.2 lbs.
•	USE INSTRUCTIONS: Apply in 200 gallo acre. Make applications on a monthly ba 3 applications may be made.	sis. A maximum of
product) per acre	ns: Do not apply more than 2.1 lbs. of cope e per application. Do not apply more than product) per acre per year. Minimum retre	6.3 lbs. of copper
Lettuce, Endive, Escarole	Downy mildew  USE INSTRUCTIONS: Begin treatment vappears and repeat every 5 days as nee disease.  Note: Flecking and/or yellowing of leave certain environmental conditions such as of moist weather, acid rains, or other cor	ded to suppress s will occur under extended periods
	reduced pH on leaf surfaces. Injury may be to reduce crop value. Increasing the volumil frequently decrease phytotoxicity potentials.	ne severe enough me of spray water
product) per acr	te: Do not apply more than 1 lb. of coppet e per application. Do not apply more than roduct) per acre per year. Minimum retreat	8 lbs. of copper
Litchi	Anthracnose USE INSTRUCTIONS: Make initial applificular and repeat on a weekly scheduler.	ule until just before
this product) per	harvest. Apply in sufficient water for thore is: Do not apply more than 1.23 lbs. of coracre per application. Do not apply more to this product) per acre per year. Minimus.	pper (2.5 lbs. of than 4.92 lbs. of
Macadamia nuts	Anthracnose  USE INSTRUCTIONS: initiate sprays at flowering and repeat on a weekly sched harvest. Apply in sufficient water for thom:  Phytopthora bight (P. capsici), Raceme	ule until just before ough coverage.
	blight (Botrytis cinerea)  USE INSTRUCTIONS: Apply during race and bloom periods. Apply in sufficient w coverage.	eme development
this product) pe	ne: Do not apply more than 2.36 lbs. of cor racre per application. Do not apply more s. of this product) per acre per year. Minim	than 9.44 lbs. of
		DE 50W Page 5 of



Crop	Disease	Rate per Acre	Crop	Disease	Rate per Acre
damey sapote	Anthracnose, Algal leaf spot	6 to 8 ibs.	Peanuts	Cercospora leaf spot	1.5 lbs.
·	USE INSTRUCTIONS: Apply when cond development. Repeat on a 14-day sched severity and environmental conditions dis	lule as disease ctate.		USE INSTRUCTIONS: Begin spraying a after planting or when disease symptom repeat at 7-day intervals as needed N 2 quarts of Sulfur 6L per acre may be a	s first appear and ote: The use of 1 to
product) per acri	as: Do not apply more than 2.1 lbs. of cope per application. Do not apply more than product) per acre per year. Minimum retre	8.4 lbs. of copper	product) per ac	ons: Do not apply more than 0.79 lb. of copere per application. Do not apply more than product) per acre per year. Minimum retre	oper (1.5 lbs. of this 4.74 lbs. of copper
Mangoes	Anthracnose USE INSTRUCTIONS: Apply monthly aft	5.2 lbs. er fruit set until	Pears	Fire blight · USE INSTRUCTIONS: Apply at 5-day in	1 lb.
<del> </del>	hervest		-	the bloom period.	
product) per acr [36.4 lbs. of this 30 days.	ns: Do not apply more than 2.6 lbs, of cope per application. Do not apply more than product) per acre per year. Minimum retre	18.2 lbs. of copper eatment interval is		Biossom blast (Pseudomonas blight) USE INSTRUCTIONS: Apply before Fal during domancy before Spring growths higher rates when disease pressure is it	starts. Use the nigh or when
Olives	Peacock spot, Olive knot USE INSTRUCTIONS: Make first applic		Una Bastrada	conditions favor the development of suc Note: May cause Fruit russet on coppe	r sensitive varieties
Iton Beatweller	rain fall. A second application in early Si made if disease is severe.		than 8 lbs. of c	ons: During the Fall or late dormant period opper (16 lbs. of this product) per acre per is permitted per season. Ouring the bloom	application. Only n or growing period
this product) per	ns: Do not apply more than 3.15 lbs. of co r acre per application. Do not apply more s. of this product) per acre per year, Minim ys.	than 6,3 lbs. of	application, Mil 18 lbs. of copp	ore than 0.5 lb. of copper (1 lb. of this prod nimum retreatment interval is 5 days. Do no er (32 lbs. of this product) per acre per yea	ot apply more hten. ar.
Onlons	Purple blotch, Downy mildew	2 lbs.	Peas	Powdery mildew USE INSTRUCTIONS: Begin applicatio	n when disease
	USE INSTRUCTIONS: Begin when plan high and repeat at 7-day intervals or as an dispass saverily. Can cause obvious	needed, depending		symptoms first appear and repeat at we needed.	ekly intervals as
	on disease severity. Can cause phytoto: Bacterial blight	1 to 1.5 lbs.	product) per ac (7.9 ibs. of this	ons: Do not apply more than 0.79 ib. of co cre per application. Do not apply more than product) per acre per year. Minimum retre	3.95 lbs. of coppe
line Personal	USE INSTRUCTIONS: Begin when plan righ and repeat at 7-day intervals or as on disease severity. Can cause physioto-	needed, depending doity on leaves.	days. Pecans	Shuck and Kernel rol (Phytophthora cactorum). Zonate leaf spot	2 to 4 lbs.
product) per scr	ns: Do not apply more than 1 b. of coppe e per application. Do not apply more than roduct) per acre per year. Minimum retres	6 lbs. of copper		(Cristularielle pyremidalis) USE INSTRUCTIONS: For suppression water to ensure complete spray covera intervals starting at kernel growth and co	ge at 2- to 4-week ontinuing until shuck
Papaya	Anthrecnose	4 to 5.2 lbs.		open. Use the higher rate and shorter in rainfall occurs.	ntervals if frequent
	USE INSTRUCTIONS: Apply before disease appears, Apply at 14-day intervals. The addition of any approved			Mosses, Alga, Lichen	4.2 lbs.
	spreader is desirable.  ns: Do not apply more than 2.63 lbs. of core acre per application. On not apply more			USE INSTRUCTIONS: Mix with spread- spray basis and apply in dormant seas- swell, thoroughly waiting limbs and mos	on before buds
	s, of this product) per acre per year, Minim		product) per ac	ons: Do not apply more than 2.1 lbs. of co cre per application. Do not apply more that is product) per acre per year. Minimum retr	18.4 lbs. of copper
•	(Pseudomonas sp.)		Pecans	Ball Moss	4.2 lbs.
	USE INSTRUCTIONS: Begin application first established in the field and repeat a depending upon disease severity and e conditions.	it 10-day intervals	(FL and TX)	USE INSTRUCTIONS: Apply 4.2 pound water, in the Spring, when Ball moss is using 1.5 gallons of spray per foot of tre to wet Ball moss tufts thoroughly. A sec	actively growing, re height. Make sur
product) per acr	ns: Do not apply more than 1 lb. of coppe a per application. Do not apply more than uct) per acre per year. Minimum retreatme	2 lbs. of copper (4		be required after 12 months.  Note: This product may be injurious to under Live Oaks. This product may be and masonary surfaces. Do not spray of furniture, etc.	reactive on metal
Passion fruit	Anthracnose USE INSTRUCTIONS: Make initial appl			Shuck and Kernel rot (Phytophthora cactorum), Zonate leaf spot (Cristulariella pyramidalis)	2 to 4 lbs.
this product) pe copper (18.8 lb:	flowering and repeat on a weekly sched harvest. Apply in sufficient water for their hs: Do not apply more than 2.36 lbs. of cir r acre per application. Do not apply more s. of this product) per acre per year. Minim	ough coverage. opper (4.7 lbs. of than 9.44 lbs. of		USE INSTRUCTIONS: For suppression water to ensure complete spray covers intervals starting at kernel growth and copen. Use the higher rate and shorter in rainfall occurs.	ge at 2- to 4-week ontinuing until shuck
interval is 7 day Peaches,	s. Leaf curl. Coryneum blight (shot hole).	8 to 16 lbs.		Mosses, Alga, Lichen	4.2 lbs.
Nectarines	Bacterial canker and Black (Pseudomonas), Bacterial spot (Xanthomonas)	15 15 15		USE INSTRUCTIONS: Mix with spread spray besis and apply in dormant seas swell, thoroughly waiting limbs and mos	on before buds ses.
	USE INSTRUCTIONS: Apply at leaf fall, rate when rainfall is very heavy and dise high. May be used with agricultural spra	ase pressure is	product) per a	ons: Do not apply more than 2.1 lbs. of co cre per application. Do not apply more tha is product) per acre per year. Minimum ret	n 8.4 lbs. of copper
	Brown rot blossom blight	3 ibs.	Peppers	Bacterial spot	1.5 lbs.
	USE INSTRUCTIONS: Apply as full cov Application at this time affords some co and Coryneum blight			USE INSTRUCTIONS: Begin application first favor disease development and reintervals as needed depending on dise	peat at 3-day ase severity.
	Bacterial spot USE INSTRUCTIONS: Make post-bloor and second cover sprays.	1 lb. n application at first	product) per a copper (23.7 i	Use Restrictions: Do not apply more than 0.79 lbs. of coppe product) per acre per application. Do not apply more than 11. copper (23.7 lbs. of this product) per acre per year. Minimum interval is 3 days.	
	Bacterial spot USE INSTRUCTIONS: Apply as a dom	8 lbs. ant spray.	Pistachios	Botrytis blight (Botryosphaeria), Panicle and Shoot blight, Septoria leaf blight, Late blight (Alternaria alternata)	
			1		
more than 8 lbs Minimum retrea do not apply mo	ns: During the dormant or late dormant p . of copper (16 lbs. of this product) per actiment interval is 7 days. During the bloom then 1.5 lbs. of copper (3 lbs. of this p timum retreatment interval is 5 days. Do no	re per application. or growing period, roduct) per acre per		USE INSTRUCTIONS: Make initial app and repeat on a 14-day schedule as di conditions. If disease conditions are se rate.	ctated by disease



Crop	Disease	Rate per Acre	Стор	Disease	Rate per Acre
Plums, Prones	Coryneum blight (shot hole)	n blight (shot hole) 8 to 16 lbs. Sugar apple		Anthracnose	6.3 lbs.
	USE INSTRUCTIONS: Apply as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high.		(Annona)	USE INSTRUCTIONS: Make initial ap flowering and repeat on a weekly sch harvest Apply in sufficient water for th	edule until just before
	Brown rot, Blossom blight	3 lbs.	lies Pastriction	is: Do not apply more than 3.15 lbs. of	<del></del>
	USE INSTRUCTIONS: Apply full cover red or early white stage.		this product) per copper (25.2 lbs	acre per application. Do not apply mon of this product) per acre per year, Min	e than 12.6 lbs. of
nore than 8 lbs. Vinimum retreat to not apply mo	ns: During the dormant or late dormant; of copper (16 lbs. of this product) per a ment interval is 7 days. During the bloor re than 1.5 lbs. of copper (3 lbs. of this	cre per application. n or growing period, product) per acre per	interval is 7 days Sugar beets, Table beets	Cercospora leaf spot USE INSTRUCTIONS: Begin applicat	2 to 2.6 lbs.
oppiication, Mini 18 lbs. of coppe Potatoes	mum retreatment interval is 5 days. Do r (36 lbs. of this product) per acre per y Early blight, Late blight	not apply more than ear. 1 to 4 lbs.		first favor disease development and n intervals as needed. Use the higher ra severe. Addition of Surf-Ac 9820 or a	ite when disease is
	USE INSTRUCTIONS: Apply at 1 to 1 intervals starting when plants are 6 inc weeks before harvest in locations whe Use 3 to 4 lbs. per acre where diseas	.5 lbs. at 5- to 10-day thes high until 2 are disease is light. e is more severe.	this product) per	joil is recommended.  as: Do not apply more than 1.31 lbs. of acre per application. Do not apply more than the product of this product) per acre per year. Min	e than 7.86 lbs. of
	Under conditions of severe disease, o product will be improved by tank mixin compatible fungicides registered for u and follow all label instructions of tank	g with other se on Potetoes. Read	interval is 10 da Tomatoes		1 b.
product) per acr (50 lbs. of this p	ns: Do not apply more than 2.5 lbs. of c e per application. Do not apply more his roduct) per acre per year. Minimum retr	opper (5 lbs. of this an 25 lbs. of copper		Gray leaf mold, Septoria leaf spot USE INSTRUCTIONS: Begin when di and repeat at 3-day intervals or as ne	
days. Pumpkin,	Powdery mildew	1.5 to 2.1 lbs.	III - Bassadada	disease severity.	
Squash	USE INSTRUCTIONS: Begin applicativeeks old or when disease symptoms repeat at 5-day intervals as needed to	ion when plants are 3 s first appear and maintain control. Use	product) per acr	ns: Do not apply more than 0.53 fb. of o e per application. Do not apply more th product) per acre per year. Minimum re	an 17.4 lbs. of coppe
Use Restriction	the higher rates if disease is heavy or se: Do not apply more than 1.05 lbs. of	<del></del>	Walnuts	Walnut biight	6.3 lbs.
this product) per	r acre per application. Do not apply more s. of this product) per acre per year. Min	e than 5.25 lbs. of		USE INSTRUCTIONS: Apply first app prebloom prior to when calkins are pa Make additional applications during b	irtially expended.
Quince	Fire blight USE INSTRUCTIONS: Apply at 5-day	1 lb.		stage or as needed when free moistu coverage of catkins, leaves and nutlet	
Use Restriction	bloom period.  18: Do not apply more than 0.5 lb. of co	pper (1 lb. of this		effective control. When applied as a d Summer oil emulsion may be added a spray.	
	e per application. Do not apply more the roduct) per acre per year. Minimum retr			Note: Adequate control may not be o tolerant species of Xanthomonas bac	
Raspberries	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	4 lbs.	this product) per copper (50.4 lbs	ns: Do not apply more than 3.15 lbs. of r acre per application. Do not apply mo s, of this product) per acre per year. Mir	re than 25.2 lbs. of
	USE INSTRUCTIONS: Apply as delay after training in the Spring. Make Fall harvest. Add 1 qt. of crop oil per acre	application after	interval is 3 days Watercress	Cercospora leaf spot	1 lb.
	Leaf spot, Cane spot, Purple blotch, Anthracnosa, Yellow rust	2 ibs.		USE INSTRUCTIONS: Begin applications when plants at first established in the field, repeating at 7-day intervals depending on disease severity and environmental conditions. Do not exceed 4 applications per crop. Apply using ground spray equipment at no less than 50 gallons spray solution per acre.	
	USE INSTRUCTIONS: Apply when lead and repeat when flower buds show who crop oil per acre.  Note: Crop injury may occur if applied.	nite. Add one quart of	ļ		
Use Restriction	certain conditions such as hot or proto Discontinue application if signs of cro ns: Do not apply more than 2 fbs. of co	nged moist periods. p injury appear.	product) per acr	ns: Do not apply more than 0.53 lbs. of e per application. Do not apply more the product) per acre per year. Minimum ret	an 2.12 lbs. of copp
product) per acr	e per application. Do not apply more the roduct) per acre per year. Minimum retr	an 10 lbs. of copper	days. Watermelon	Anthracnose, Sacterial fruit blotch	1.5 to 2 lbs.
Rice (Except CA)	False smut and Panicle blight	1 to 3 lbs.		(suppression), Downy mildew USE INSTRUCTIONS: Apply as soon	as plants become
,2,	USE INSTRUCTIONS: Begin applicat and repeat at 7- to 10-day intervals or 100% heading. Use higher rate and si when disease pressure is high or env	as needed until horter spray interval Ironmental conditions		established in the field and repeat at 5-day intervals as needed, depending upon disease severity. Use higher when conditions favor disease.	
Spinach	are favorable for disease developmer field for at least 14 days after last app Anthracnose, Blue mold, Cercospora		Use Restrictions: Do not apply more than 1.05 lbs. of coppe this product) per acre per application. Do not apply more than copper (10.5 lbs. of this product) per acre per year. Minimum		re than 5.25 lbs. of
	leaf spot, White rust  USE INSTRUCTIONS: Begin applicat first appears or conditions favor disea		Interval is 5 day Wheat, Barley,	Septona leaf blotch, Helminthosporius	n 1 ib.
lisa Rastelation	Repeat at 7-day intervals as needed. Note: Flecking may occur on Spinact ns: Do not apply more than 0.79 lb. of o	leaves.	Oats	spot blotch  USE INSTRUCTIONS: Make first app heading and follow with a second spr	
product) per acr	re per application. Do not apply more the product) per acre per year, Minimum ret	an 3.95 lbs. of copper		the higher rates when conditions favous: Do not apply more than 0.53 lbs. of	r disease. copper (1 lb. of this
Strawberries	Leaf spot, Leaf blight	2 to 3 lbs.	(2.1 lbs. of this	re per application. Do not apply more the product) per acre per year. Minimum re	ran 1.00 los. of copp treatment interval is
			days.		

Use Restrictions: Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. For severe disease infection, do not apply more than 1.5 lbs. of copper (3 lbs. of this product) per acre per application. Do not apply more than 8.19 lbs. of copper (16.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.



## CITRUS (Grapefruit, Kumquat, Lemon, Lime, Orange, Pummelo, Tangelo, Tangerine)

Disease	Rate per Acre
Melanose, Scab,	4 to 6.3 lbs.
Algal spot	USE INSTRUCTIONS: Apply as prebloom and post- bloom sprays.
Greasy spot,	2 to 6 lbs.
Pink pitting	USE INSTRUCTIONS: Apply In Summer on expanded new flush. Repeat on subsequent flushes where disease pressure is severe. Use higher rates when conditions favor disease.
Altemaria	6.3 lbs.
	USE INSTRUCTIONS: On susceptible varieties apply when the first Spring flush appears and each flush thereafter. Application to the fruit should start after two-thirds of the petals have fallen and be repeated on a 7-day schedule.
Phytophthora	4 to 6.3 ibs.
brown rot, Septoria spot	USE INSTRUCTIONS: Begin application in Fall and continue as needed. Apply to entire tree. Apply also to bare ground 1 ft. beyond skirt. Make foliar applications to protect developing fruit in orchards with previous disease history or when conditions favor disease development. Use higher rates when conditions favor disease. Note: h CA, in areas subject to copper injury, add 0.33 to 1 fb. of high quality lime per lb. of this product.
Citrus canker	6.3 lbs.
(suppression only)	USE INSTRUCTIONS: Spray flushes 7 days after shoots begin to grow. Young that may require an additional application. Number and timing of applications will be dependent on disease pressure. Under heavy disease pressure, each flush of new growth should be sprayed.
Phytophthora foot	1 b.
rot	USE INSTRUCTIONS: Mix with 1 gal of water and paint trunks of trees from the soil surface to the lowest scaffold limbs. Apply in May prior to Summer rains and/or in the Fail prior to wrapping trees for freeze protection. Treatment serves for protection up to one year, but does not cure existing infections.

Use Restrictions: Do not apply more than 3.15 lbs. of copper per acre (6.3 Use Restrictions: Do not apply more than 3.15 ibs. of copper per acre (6.3 ibs. of this product) per acre per application. Do not apply more than 12.6 ibs. of copper per acre (25.2 ibs. of this product) per acre per year. Minimum retreatment interval is 7 days.

Note: Adding foliar multitionals to spray mixtures containing this product or other products and applying to Citrus during the post bloom period when young fruit is present may result in spray burn. Do not use this product on Citrus seedlings grown in greenhouses or shadehouses.

#### CITRUS (Field Nursery Grown)

To control Melanose, Scab, Pink pitting, Greasy spot, Brown rot and for Citrus canker (suppression), apply 2 pounds of this product per 100 gallons of water (4 to 6.3 lbs./acre). Apply this product at 28-day intervals or as needed depending on disease severity

#### **GREENHOUSE AND SHADEHOUSE CROPS**

Notice to User: This product may be used in greenhouses and shadehouse to control diseases on some crops which appear on this tabel. The grower should bear in mind that the sensitivity of crops grown in greenhouses and shadehouses differ greatly from crops grown under field conditions. Neither the manufacturer nor seller has determined whether or not this product can be used safely prior to commercial use. In a small area, apply the recommended rates to the plant in question, i.e. follage, fruit, etc. and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.

Apply this product according to specific rates given for these crops in pounds per acre or pounds per 100 gallons. One level tablespoon of this product per 1,000 square feet is equivalent to 1 pound per acre. One-half tablespoon of this product per gallon of water is equivalent to 1 pound per 100 gallons. This product 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 as needed; use shorter interval during periods when severe disease conditions persist.

0	REENHOUSE AND SHADEHOUS	SE CROPS		
Crop	Disease	Rate (TBSP / 1,000 SQ. FT.)		
Eggplant	Alternaria blight, Anthracnose, Phomopsis	2		
	development of disease sympto	INSTRUCTIONS: Begin applications prior to opment of disease symptoms. Repeat sprays at 7- day intervals or as needed depending on disease ure.		

Use Restrictions: Do not apply more than 0.79 lb, of copper per acre (0.5 ozs. of this product per 1000 sq. ft.) per application. Do not apply more than 7.9 lbs. of copper per acre (5.8 ozs. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 7 days.

(Continued)

GREENHOUSE AND SHADEHOUSE CROPS					
Crop	Disease	Rate (TBSP / 1,000 SQ. FT.)			
Papper	Bacterial spot	2 to 3			
	USE INSTRUCTIONS: Begin ap conditions first favor disease de 3-day internals as needed deper severity. Use higher rate for seve	velopment and repeal at			
ozs, of this product 11.85 lbs, of copper	Do not apply more than 3.15 lbs. per 1000 sq. ft.) per application. per acre (8.7 ozs. of this produc atment interval is 3 days.	Do not apply more than			
Cucumber	Angular leaf spot, Downy mildew	1.5 to 2			
	USE INSTRUCTIONS: Apply at 5-day intervals when plants begin to vine.				
oz. of this product p 5.25 lbs. of copper	Do not apply more than 1.05 lbs. er 1000 sq. ft.) per application, D per acre (3.6 ozs. of this product atment interval is 5 days.	o not apply more than			
Tomato	Early blight, Late blight	2 to 3			
	USE NSTRUCTIONS: Begin when disease first threatens and repeat at 3-day intervals or as needed depending on disease severity. Use higher rate for severe disease.				
	Bacterial speck	2			
USE INSTRUCTIONS: Begin applications when disea first threatens and repeat at 3-day intervals or as need depending on disease sevently.					
	Bacterial spot, Anthrachose, 2 to 4 Gray leaf mold, Septonia leaf spot				
USE INSTRUCTIONS: Begin when disease first threatens and repeat at 3-day intervals or as nee depending on disease severity. Use higher rate fasease.					
Use Restrictions:	Do not apply more than 0.53 lbs.	of copper per acre (0.3			

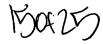
# oz. of this product per 1000 sq. %) per application. Do not apply more than 17.4 lbs. of copper per acre (12.7 ozs. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 3 days.

Notice to User: Plant sensitivities to copper hydroxide have been found to be acceptable in specific genera and species listed on this label; however, phytotoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for sensitivity to this product. Neither the manufacturer nor seller has determined whether or not this product can be safely used on ornamental or nursery plants not listed on this label. The user should determine if this product 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.

Use this product on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, for professional use on ornamentals grown for indoor and outdoor landscaping, and for control of bacterial and fungal diseases of foliage, flowers and stems.

Apply as a thorough coverage spray using 1 pound of this product per 100 gallons of water. Begin application at first sign of disease and repeat at 7- to 14-day intervals as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist. One level teaspoon of this product per gallon of water is equivalent to one pound per 100 gallons. This product may be used as a maintenance spray. This product may be used as a maintenance spray alone or in combination with other fungicides such as dithiocarbamates. LISE RESTRICTIONS:

On Easter Lilles: Do not apply more than 2.5 lbs. of copper (5 lbs. of this product) per acre per application. Do not apply more than 75 lbs. of copper (150 ibs. of this product) per acre per year. Retreatment interval is 7 days. Note: Do not apply any other pesticide containing copper to this land for 36 months. On All Other Ornamentals: Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per application. Do not apply more than 9 lbs. of copper per acre (6.6 ozs. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 3 days.



Ornamentals	Disease
Althea (Rose of Sharon)	Bacterial leaf spot
Aralia	Afternarie, Bacterial fruit blotch (suppresion), Cercospore leafspot, Downy mildew, Xanthomonas leafspot
Arbonitae	Alternaria twig blight, Cercospora leaf blight
Azalea*	Botrytis blight, Cercospora leaf spot, Phytophthora dieback, Powdery mildew
Begonia	Bacterial leaf spot (Xanthomones sp., Ervinia sp., Pseudomones sp.)
Bougainvillea	Anthracnose, Bacterial leaf spot
Bulbs, (Tulip, Gladiolus)	Antivacnose, Botrytis blight
Camellia	Anthracnose, Bacterial leaf spot
Camphor tree	Pseudomonas leaf spot
Canna	Pseudomonas leaf spot
Camation*	Alternaria blight, Botrytis blight, Pseudomonas leaf spot
Chinese tallow tree	Bacterial leaf spot (Xanthomonas sp., Pseudomonas sp.)
Chrysanthemum*	Botrytis blight, Septoria leaf spot
Cotoneaster	Botrytis blight
Dahlia	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Date palm	Pestatotia leaf spot
Dianthus	Bacterial spot, Bacterial soft rot
Dogwood	Anthracnose
Ousty miller	Bacterial teaf spot (Pseudomonas cichorii)
Easter lily**	Botrytis blight
Echinacea	Bacterial leaf spot (Pseudomonas cichorii)
Elm "Drake"	Xarthomonas leaf spot
Eucnymus	Anthracnose, Botrytis blight
European fan palm	Pestalotia leaf spot
Gardenia	Alternaria leaf spot, Botrytis bud rot, Cercospora leaf spot
Gerarium	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Gladiolus	Alternaria leaf spot, Botrytis gray mold, Bacterial leaf blight
Golden rain tree	Bacterial leaf spot
Hibiscus	Bacterial leaf spot
Holly fern	Pseudomonas leaf spot
Impatiens	Bacterial leaf spot
Indian hawthom***	Anthracnose, Entomosporium leaf spot
lvy (English, Algerian)*	Xanthomonas leaf spot
bora	Xanthomonas leaf spot
Juniper (Easter red cedar)	Anthracnose
Lantana	Bacterial leaf spot
Lilac	Cercospora leaf spot
Lobiolly bay	Anthracnose
Loquat	Entomosporium maculata, Colletotrichum sp.
Magnolia (Southern)	Algal leaf spot, Anthracnose, Bacterial leaf spot
Magnolia (Sweet bay)	Anthracnose
Magnolia	Bacterial leaf spot
Mandevillas	Anthracnose
Marigold	Alternaria leaf spot, Botrytis leaf and flower rot, Cercospora leaf spot
Mulberry, weeping	Bacterial leaf spot
Oak, laurel	Algal leaf spot (Cephaleuros virescens)
Oleander	Bacterial leaf spot, Fungal leaf spot
Pachysandra	Volutella leaf blight
Pansy	Downy mildew

Omamentals	Disease	
Pentas (Egyptian star)	Bacterial leaf spot (Xanthomonas sp.)	
Peony	Botrytis blight	
Periwinkle	Phomopsis stem blight	
Philodendron	Bacterial leaf spot	
Phlox	Alternaria leaf spot	
Photinia (Red top, Red leaf)	Anthracnose, Entomosporium	
Pistachio	Anthracnose	
Plantain lily	Bacterial leaf spot	
Powder pulf plant	Baczerial leaf spot	
Pyracantha '	Fireblight, Scab	
Queen palm	Exosporium leaf spot, Phytophthora bud rot	
Rhododendron	Alternaria flower spot	
Rose*	Black spot, Powdery mildew	
Verbena	Xanthomonas leaf spot	
Vibumum	Anthracnose	
Washingtonia palm	Pestalotta leaf spot	
Weeping willow	Anthracriose	
Yucca (Adam's needle)	Cercospora leafspot, Septoria leafspot	

Discoloration of foliage and/or blooms have been noted on some varieties. To prevent Disconsion of one league shurpers from its area been most of source valences. To prevent residues on commercial plants, co not spray just before selling season. Note: Phytotoxicity may depend on varietal differences. If unfamiliar with the use of this product, apply the recommended rate to a few plants and observe after 7 to 10 days for symptoms of phytotoxicity.

For Easter tily, use 3 to 5 lbs. per acre in 20 to 100 gallons water.

For indian hawthom, use 2 to 4 lbs. per 100 gallons.

ORNAMENTAL TREES				
Crop	Disease	Rate per Acre		
Douglas	Rhabdocline needlecast 2 lbs.			
<b>A</b> r	USE INSTRUCTIONS: Begin applications at bud break and repeat at 3- to 4-week Intervals. Apply in a tank mix another registered pesticide if moderate to severe disease pressure is present.			
lice Pasi	rictions: Do not apply more than	n 2 the of cooner (4 the of this		

Use Restrictions: Do not apply more than 2 ibs. of copper (4 ibs. of this product) per acre per application. Do not apply more than 20 ibs. of copper (40 lbs. of this product) per acre per year. Minimum retreatment interval is 7 large. days.

Ball moss 4 ibs. Live oak USE INSTRUCTIONS: Apply in 100 galons of water in the Spring when Ball moss is actively growing using 1.5 gals. of spray per ft. of tree height. Make sure to wet ball moss tufts thoroughly. A second application may be required after 12 months. Note: This product may be injurious to ornamentals grown under Live oaks. This procuct may be reactive on metal and masonry surfaces. Do not spray on cars, houses, lawn turnitures, etc.

Use Restrictions: Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per application. Do not apply more than 20 lbs. of copper (40 lbs. of this product) per acre per year. Minimum retreatment interval is 7 davs.

Sycamore Anthracnose

USE INSTRUCTIONS: Apply as a full spray coverage. Apply in 100 gals, of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7 to 10 days later at 10% expansion.

Use Restrictions: Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per application. Do not apply more than 20 lbs. of copper (40 lbs. of this product) per acre per year. Minimum retreatment interval is 7

#### **TURFGRASS**

Crop	Disease	Rate per Acre
Turfgrass	Algae see USE INSTRUCTION	
	feet in 5 gallons of water. M spray as needed. May be u with fungicides. Observe all on the label of each product Note: Phytotoxicity may oc differences. Apply the recor and observe 7 to 10 days for	t used in tank mixes.

Use Restrictions: Do not apply more than 3 lbs. of copper per acre (2.2 czs. of this product per 1000 sq. ft.) per application. Do not apply more than 9 lbs. of copper per acre (6.6 czs. of this product per 1000 sq. ft.) per year. Minimum retreatment Interval is 3 days.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. **PESTICIDE STORAGE:** 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. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: 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.

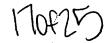
CONTAINER DISPOSAL: (For Residential/Household Uses): If empty: Do not reuse this container. Place in trash or offer for recycling if available

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### WARRANTY-CONDITIONS OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Selier. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.





# KOP®-Hydroxide 50

Agricultural Fungicide-Bactericide

## Water-Soluble Packaging

ACTIVE INGREDIENT:	
Copper Hydroxide*	77.0%
OTHER INGREDIENTS:	23.0%
TOTAL:	
*[CAS No. 20427-59-2]	
*Metallic copper equivalent is 50%.	

## KEEP OUT OF REACH OF CHILDREN **DANGER / PELIGRO**

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

#### See FIRST AID Below

EPA Reg. No. 19713-321 EPA Est. No. 19713-GA-001 **Net Contents:** 20 Pounds

#### FIRST AID

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
   Remove contact tenses, if present, after the first 5 minutes, then continue
- Call a poison control center or doctor for treatment advice

- 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
- Do not give anything by mouth to an unconscious or convulsing person.

#### IF INHALED:

- 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.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with planty of water for 15 to 20 minutes.
  Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product, including health concerns, medical emergencies or pesticide incidents, call the National Pesticide Information Center at 1-800-858-7378.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage.

#### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

DANGER. Corrosive. Causes irreversible eye damage. Do not get in eyes. Causes skin irritation. Harmful if swallowed, absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with the skin, eyes or clothing. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made

#### PRECAUTIONARY STATEMENTS

of any waterproof material such as polyethylene or polyvinyl chloride. If you want more options, follow the instructions for category A on an EPA chemical-resistance selection chart.

Mixers, loaders, applicators, and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves such as polyethylene or polyvinyl chloride, shoes plus socks, and protective eyewear.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Water-soluble packets when used correctly qualify as a closed loading system under the WPS. Handlers handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced

PPE of long-sleeved shirt, long pants, shoes, and socks. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them

#### USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the tollet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on dean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

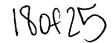
### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. This product may contaminate water through runoff. Poorly drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

#### USE INFORMATION

Use this product according to "DIRECTIONS FOR USE". This product can be applied from aircraft and ground spraying equipment. Depending upon equipment used and the specific crop, the volume applied per acre differs. Refer to the general "MINIMUM RECOMMENDED SPRAY VOLUME" table.





#### **MIXING INSTRUCTIONS**

This product may be applied as an aerial, ground dilute or ground concentrate spray unless specifically directed otherwise by crop. When selecting a use rate for this product, do not apply less than the label recommended minimum amount. Under heavy disease pressure or when conditions favor such, use the higher rate and shorter spray intervals specified for each crop. In addition, use the higher rates for larger mature tree crops.

The per acre use rate of this product is applicable for both dilute and concentrate spraying. Consult this product label for specific rates and timing of application by crop.

Complete spray coverage is essential to assure optimum performance from this product. When treating on a concentrate basis or by aerial application, unless you have had specific previous experience, it is advisable to test for compatibility and crop tolerance prior to full scale commercial utilization.

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 manufacturer's specifications and environmental conditions are within those recommended by state and local regulatory authorities. When mixing, fill spray tank one-half full with water. Add this product slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Spreaders, stickers, spray and crop oil (cleared for application to growing crops) should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank.

Note: THIS PRODUCT SHOULD NOT BE APPLIED IN A SPRAY SOLUTION HAVING A PH LESS THAN 6.5 OR GREATER THAN 9.0 AS PHYTO-TOXICITY MAY OCCUR.

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 this product resulting in possible phytotoxicity or loss of effectiveness.

The materials used in the construction of application equipment should be identified before it is used to apply this product. Agricultural chemicals such as this product often react with soft metals such as aluminum and some synthetic materials such as plastics. After completing the application of this product with equipment containing these materials and before overnight storage, thoroughly flush the mixing and application system with clean water.

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

#### 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 (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 tabel about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 48 hours. 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 wash.

PPE required for early entry to treated areas that is permitted under the WPS 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, shoes plus socks, and protective evewear.

#### **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.

Do not enter or allow others to enter treated areas until sprays have dried.

#### DIRECTIONS FOR WATER-SOLUBLE BAGS

Paks containing this product are water-soluble. Do not allow pak to become wet prior to adding to the spray tank. Do not handle paks with wet hands. To prepare the spray mixture, drop the required number of unopened paks into spray tank while filling with the appropriate amount of water. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the paks should be completely dissolved in approximately 5 minutes from the time they are added to the water. Use the specified dosage of this product in the amount of water necessary to give complete coverage. Determine the total amount to be added to the spray tank based on the rates in the "CROP" section.

Note: Products containing boron and/or fertilizers will prevent the water-soluble packet from dissolving. Boron and/or fertilizer products must only be added after packet(s) have completely dissolved.

#### Minimum Recommended Spray Volume

Given as Gallons per Acre (GPA) to be used when applying this product:

		Ground		
1	Aerial	Dilute	Concentrate	
Vegetables and Field Crops	3	20	-	
Small Fruits	5	150	50	
Vines	5	150	50	
Fruit and Nut Trees*	10	400	50	
Citrus	10	800	100 (20 FLORIDA)**	

\* On young fruit trees, use a minimum of 1 gallon spray per acre.

Pesticide application equipment such as Curted or other similar sprayers which are capable of obtaining thorough coverage at low volumes may be used at as low as 20 GPA of spray volume.

#### CHEMIGATION INSTRUCTIONS

Do not apply this product through any irrigation 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, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems. 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 non-uniform distribution of treated water.

If you have questions about calibration, you should contact your 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.

A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

#### SAFETY DEVICES

 The systems designated above 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.



- All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) 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.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) 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.
- 6) 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.

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 a 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 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 not a water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions refer to statements (2), (3), (4), (6), and (7) in the section on SAFETY DEVICES.

#### POSTING INSTRUCTIONS

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, inpatient clinics, nursing homes or any public areas such as schools, parks, playgrounds or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any location affording maximum visibility to the sensitive areas.

The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2.5 inches tall and all letters and the symbol shall be in a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTI-CIDES IN IRRIGATION WATER.

Note: This sign is in addition to any sign posted to comply with the Worker Protection Standard (WPS).

#### CROPS

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.

#### APPLICATION FOR FROST INJURY PROTECTION

Bacterial Ice Nucleation Inhibitor: Application of this product 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 thereby provide some protection against light frost. The degree of frost protection will vary with weather conditions and other factors. Not recommended for those geographical areas where weather conditions favor severe frost.

Crop	Disease	Rate per Acre	Number or Water-Soluble Paks		
A l'alfa	Cercospora, Leptosphaerulina leaf spots	1 lb.	1 pak per 20 acres		
	USE INSTRUCTIONS: Apply 10 to 14 days before each harvest or earlier if disease threatens.  Note: Spray injury may occur with sensitive varieties such as Lehontan.				
product) per than 1.12 lb	tions: Do not apply more than 0. acre [1 pak per 20 acres] per ap s. of copper (2.2 lbs. of this produ interval is 30 days.	plication. Do no	et apply more		
Almonds	Coryneum blight, Blossom 8 to 12 lbs. 2 to 3 paks brown rot per 5 acres				
	USE INSTRUCTIONS: Dorman foliage buds begin to swell. Use heavy and disease pressure is h	higher rates w	Apply before hen rainfall is		

\$ Coryneum blight, Blossom brown rot	3 to 12 lbs.	2 to 3 paks per 5 acres						
USE INSTRUCTICNS: Dormant application - Apply before foliage buds begin to swell. Use higher rates when rainfall is heavy and disease pressure is high.								
Coryneum blight, Blossom brown rot	3 lbs.	3 paks per 20 acres						
USE INSTRUCTIONS: Early bloom (pepcorn) application - Apply before full bloom. Use higher rates when rainfall is heavy and disease pressure is high. Note: To evoid plant injury, do not use above rate after full bloom.								
Bacterial blast (Pseudomonas)	3 to 16 lbs.	3 paks per 3.75 to 20 acres						
USE INSTRUCTIONS: Apply at domant to early pink bud. Note: Injury may occur from postbloom sprays, especially on Nephus varieties.								
Bacterial blast (Pseudomones)	1 lb.	1 pak per 20 acres						
 USE INSTRUCTIONS: For control in sprinkler irrigated orchards or where disease is severe, apply at 2-week post-bloom intervals or just before sprinkling.  Note: injury may occur from posibloom sprays, especially on Neplus varieties.								

Use Restrictions: During the dormant or late dormant period, do not apply more than 8 lbs. of copper (18 lbs. of this product) per acre (4 paks per 5 acres) per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 bs. of copper (3 bs. of this product) per acre (3 paks per 20 acres) per application. Minimum retreatment interval is 5 days. Do not apply more than 18 bs. of copper (38 bs. of this product) per acre per year.

Apples	Anthracnose, European canker, Pseudomonas	12 to 16 lbs.	3 to 4 paks per 5 acres					
	USE INSTRUCTIONS: Apply before Fall rains. Use higher rates under severe disease conditions.  Note: Use on yellow varieties may cause discoloration. To avoid, pick before spraying.							
	Fire blight 1 lb. 1 pak							
	USE INSTRUCTIONS: Make application between silver tip and green tip. Apply as a full cover spray.  Note: Crop injury may occur from late application; discontinue use when green tip reaches one-half inch.							
	Crown or Collar rot 4 lbs. 1 pak per 5 acres							
	USE INSTRUCTIONS: Mix in 100 gals, of water, Apply 4 gals, of suspension as a drench on the lower trunk area of each tree. Apply either in early Spring or late Fall after harvest. Note: Do not use if soil pH is below 5.5 since copper toxicity may result.							

Imay result.

Use Restrictions: During the Fall or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [4 paks per 5 acres] per application. Only one application per season. During the bloom or growing period, do not apply more than 0.5 lb. of copper (1 lb. of this product) per acre [1 pak per 20 acres] per application. Do not apply more than 16 lbs. of copper (32 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (36 lbs. of this product) per acre per year.

product/ por dero por your.							
Apricots	Coryneum blight (Shot hole), Blossom brown rot	3 lbs.	3 paks per 20 acres				
	USE INSTRUCTIONS: Apply at higher rates when conditions fav	or disease.					

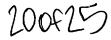
Use Restrictions: During the dormant or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [4 paks per 5 acres] per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (3 lbs. of this product) per acre [3 paks per 20 acres] per application. Minimum retreatment interval is 5 days.

Ate	moya	Anthracnose	3 lbs.	3 paks per 20 acres			
		Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.					

Use Restrictions: Do not apply more than 3.16 bs. of copper (6.3 bs. of this product) per acre [3 pake per 9.5 acres] per application. Do not apply more than 12.6 bs. of copper (25.2 bs. of this product) per acre per year. Minimum retreatment interval is 7 days.

	Avocados	Anthracnose, Blotch, Scab	6.3 lbs.	3 paks per 9.5 acres				
l			USE INSTRUCTIONS: Apply when bloom buds begin to swell and continue application at monthly intervals for 5 to 6					

Use Restrictions: Do not apply more than 3.15 lbs. of copper (6.3 lbs. of this product) per acre [3 paks per 9.5 acres] per application. Do not apply more than 18.9 lbs. of copper (37.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.



Crop	Disease	Rate per Acre	Number of Water-Soluble Paks	Crop	Disease	Rate per Acre	Number of Water-Solubic Paks
Bananas	Sigatoka	2 lbs.	1 pak per 10 acres	Сасво	Black pod	2 to 4.5 lbs.	1 pak per 4.4 to 10 acres
	USE INSTRUCTIONS: Apply by combining 0.5 gal. of a suitable a 7-day schedule throughout the intervals during dry periods.	agricultural spri	water ay oil. Apply on		USE INSTRUCTIONS: Begi rainy season and continue w Sprays should be made at 2 acres) as often as 14 to 21 varying rates depending on	rhile infection condi to 4.5 pounds (1 p days in high rainfal	e start of the tions persist ak per 4.4 to 10 areas at
	Black pitting	4 lbs.	1 pak per 5 acres		where 2 to 4 applications all infection periods and at long pak per 4.4 acres) according	re recommended di intervals, use 4.5 l	uring critical lbs. per acre (1
Use Res <del>tri</del> ci	USE INSTRUCTIONS: Apply in a acre) directly to the fruit stem and the leaf crown. Apply during the in fruit emergence.	include the bi	asal portion of d weeks after	product) per a than 15.75 ib:	density.  lens: Do not apply more that acres pak per 4.4 acres per 8. of copper (31.5 lbs. of this acres in the resident interval is 14 days.	n 2.25 lbs, of coppe rapplication. Do no	or (4.5 lbs. of thi
product) per a than 18.9 lbs.	acre [1 pak per 9.5 acres] per app . of copper (37.8 lbs. of this produ nterval is 7 days.	lication. Do no	nt apply more		Downy mildew	2 lbs.	1 pak per 10 acres
Beans	Bacterial blight (halo and common), Brown spot	1 to 3 lbs.	1 to 3 paks per 20 acres		USE INSTRUCTIONS: Begi favorable for disease devel intervals as needed, depend	opment and repeat ling on disease se	at 5-day verity.
	USE INSTRUCTIONS: Use the hidisease. For protective sprays, riplants are 6 inches high. Repeat depending upon local conditions	nake first appli on a 7-day so	ication when	product) per a than 5.25 lbs. retreatment in	ions: Do not apply more the acre [1 pak per 9.5 acres] pe of copper (10.5 lbs. of this p acreal is 15 days.	rapplication. Do no roduct) par acre pe	ot apply more or year, Minimum
product) per a	tions: Do not apply more than 0.7 acre [3 paks per 40 acres] per ap . of copper (9.5 lbs. of this produc	plication. Do n	ot apply more	Carambola	Anthracnose USE INSTRUCTIONS: Make		
	nterval is 7 days.				flowering and repeat on a w harvest. Apply in sufficient w	ater for thorough c	overage.
oeeis	Black rot (Xanthomonas), Black feaf spot (Alternaria), Downy mildew (Peronospora)	1 to 2 ibs.	1 to 2 paks per 20 acres	product) per a than 10.5 lbs.	tions: Do not apply more that acre [2 paks per 9.5 acres] p of copper (21 lbs. of this pro iterval is 7 days.	er application. Do i	not apply more
	USE INSTRUCTIONS: Apply at 7-day intervals, For control of diseases of these crops, begin application after transplants are set in the field or shortly after emergence of field seeded crops		Alternaria, Cercospora leaf spot	2 lbs.	1 pak per 10 acres		
	or when conditions favor disease rates when conditions favor dise	development.			USE INSTRUCTIONS: Beginners and repeat at 7-ding disease.		
product) per a than 7.86 lbs.	tions: Do not apply more than 1.3 acre [3 paks per 23 acres] per ap , of copper (15.7 lbs, of this produ nterval is 10 days.	plication. Do n	ot apply more	product) per a than 5 lbs. of	tions: Do not apply more that acre [1 pak per 10 acres] per copper (10 lbs. of this producteryal is 7 days.	application. Do no	t apply more
Blackberries (Santiams,		4 lbs.	1 pak per 5 acres	Celery, Celeriac	Cercospora early blight, Septoria late blight, Bacterio blight		1 pak per 10 acres
Boysens, Marions,	USE INSTRUCTIONS: Apply as delayed dormant spray after training in the Spring. Make Fall application after harvest. Add 1				USE INSTRUCTIONS: Beginstablished in the field, repe on disease severity and env	eating at 7-day inter dronmental condition	vals depending ns.
Cascades, Chehalems, and Thomless	qt. of crop oil per acre.  Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow	2 lbs.	1 pak per 10 acres	Use Restrictions: Do not apply more than 1 lb. of copper (2 lbs. product) per acre [1 pak per 10 acres] per application. Do not ap than 5.3 lbs. of copper (10.6 lbs. of this product) per acre per year retreatment interval is 7 days.			t apply more
evergreens)	rust, Pseudomonas blight USE INSTRUCTIONS: Apply when leaf buds begin to open and repeat when flower buds show white. Add one quart of crop oil			Cherries	Dead bud (Pseudomonas syringae), Coryneum blight	8 to 12 lbs.	2 to 3 paks per 5 acres
	per acre. Note: Crop injury may occur if a conditions such as hot or prolong application if signs of crop injury	pplied to foliag	e under certain		USE INSTRUCTIONS: Make first application in Fall before heavy rains and a second at late dormant, his orchands where the disease is severe, a spray should also be applied shortly after harvest. Add 1 pt. of superior-type oil per 100 gals. of water as a dilute spray.		
	tions: Do not apply more than 2 li	os. of copper (			Brown rot, Blossom blight	3 lbs.	3 paks per 20 acres
10 lbs. of cop	acre [1 pak per 4 acres] per appli per (20 lbs. of this product) per a nterval is 7 days.				USE INSTRUCTIONS: Applications and a second application to a second application to the second ap	tion at full bloom.	
Blueberries	Bacterial canker	4.2 lbs.	3 paks per 10 acres	more than 8 t	tions: During the dormant or bs. of copper (16 lbs. of this plication. Minimum retreatme	late dormant perio- product) per acre (- int interval is 7 days	d, do not apply paks per 5 c. During the
	USE INSTRUCTIONS: Make firs and a second application four w	eeks later.		this product)	wing period, do not apply mo per acre [3 paks per 20 acre sterval is 5 days.	re than 1.5 lbs. of c s] per application.	opper (3 lbs. of Minimum
product) per a than 8.4 lbs. o	tions: Do not apply more than 2.1 acre [2 paks per 9.5 acres] per a; of copper (16.8 lbs. of this produc nterval is 7 days.	plication. Do r	not apply more	Chives	Downy mildew	1 lb.	1 pak per 20 acres
Broccoli, Brussels sprouts,	Black rot (Xanthomonas), Black leaf spot (Alternaria), Downy mildew (Peronospora)	1 to 2 lbs.	1 to 2 paks per 20 acres	liga Dastrici	USE INSTRUCTIONS: Beginstablished in the fletd. Republished by disease conditions: Do not apply more than	eat applications ev	ery 7 days as
Cabbage, Cauliflower, Greens	USE INSTRUCTIONS: Apply at diseases of these crops, begin a	application after	er transplants are	product) per : then 2.65 lbs	acre [1 pak per 20 scres] per , of copper (5.3 lbs, of this pr nterval is 7 days.	r application. Do no	t apply more
(Collard, Mustard,	set in the field or shorty after emergence of field seeded crops or when conditions favor disease development. Use higher rates when conditions favor disease.			Coffee	Coffee berry disease (Colletotrichum coffeanum)		2 paks per 9.5 acre
Turnip)	Note: Reddening of older leave flecking of wrapper leaves may tions: Do not apply more than 0.5	occur on Cabb	age.		USE INSTRUCTIONS: App before onset of long rains a picking.	nd then at 21-day i	
product) per a than 2.65 lbs.	acre [1 pak per 20 acres] per app , of copper (5.3 lbs. of this produc nterval is 7 days.	lication. Do no	t apply more		Bacterial blight (Pseudomones syringae) USE INSTRUCTIONS: Beg	4.2 lbs	2 paks per 9.5 acres efore the onset
eneaunerii (f	ucivalis / uays.	<del>-</del>		(Continued)	of the long rains and contine 14-day intervals. The critical disease is just before, durin	ue throughout the ra I time of spraying to Ig and after floweri	iny season at control this

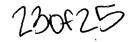


Сгор	Disease	Rate per Acre	Number of Water-Soluble Paks	Crop	Disease	Rate per Acre	Number of Water-Soluble Paks
Coffee	Leaf rust (Hemileia vastatrix)	2 to 4 lbs.	1 to 2 paks per 10 acres	Ginseng	Alternaria leaf and stem blight	2.1 lbs.	1 pak per 9.5 acres
	USE INSTRUCTIONS: Apply be 21-day intervals while rains contrainfall is heavy and disease pre	inue. Use high:	of rain and then at		USE INSTRUCTIONS: Use as a SOW used in 100 gallons of wat as plants emerge in Spring. App	er. Begin appli dications shoul	2 lbs. of Rovral cations as soon d be repeated
	ron spot (Cercospora coffeicola), Pink disease (Certicium salmonicolor)	2 lbs.	1 pak per 10 acres		every 7 days until plants become application is to be made before fungicides at least 8 hours before time to dry on the plants. Use of the state of the plants of the state of the stat	e a rain showe re the rain, givi	r, apply ng the fungicides
	USE INSTRUCTIONS: Use contreatment at the start of wet sea intervals for three applications.  ctions: Do not apply more than 2.	son and contin	r (4.2 lbs. of this		advised. Note: Alternaria leaf and stem to conditions such as those found years old Ginseng. It is very imperatoroughly covered with fungicial	in the dense ca ortant that the le; therefore, us	inopies of 2 to 4 stems be ie a spray
han 12.6 R	r acre [2 paks per 9.5 acres] per a ps. of copper (25.2 lbs. of this prod Linterval is 14 days.			product) per	apperatus which distributes the stiens: Do not apply more than 1. acre [1 pak per 9.5 acres] per ap	05 lbs. of copp pagation. Do n	er (2.1 lbs. of this of apply more
Cranberrie	Fruit rot	4.2 lbs.	2 paks per 9.5 acres	retreatment	s, of copper (10.5 lbs, of this prod interval is 7 days.		· · · · · · · · · · · · · · · · · · ·
	USE INSTRUCTIONS: Make fire or two additional applications a depending upon disease severi	7-day intervals		Grapes	Black rot, Powdery mildew, Downy mildew, Phomopsis, Leaf blight	2 lbs.	1 pak per 10 acres
	Rose bloom	4.2 lbs.	2 paks per 9.5 acres		USE INSTRUCTIONS: Begin as bud break with subsequent app depending upon cisease severi	lications throug ty.	houl the sesson,
	USE INSTRUCTIONS: Apply thr soon as symptoms are observed Bacterial stam canker				Note: Foliage injury may occur such as Concord, Delaware, Ni sensitivity or add 1 to 3 lbs. of h	agra and Rose	tte. Either test for
	USE INSTRUCTIONS: Apply po	<u> </u>	2 paks per 9.5 acres		product. stiens: Do not apply more than 3 acre [3 paks per 10 acres] per a		
	before bud burst. One or two ad intervals may be required deper	ditional applica	itions at 7-day	than 20 lbs. retreatment	of copper (40 lbs. of this product) interval is 3 days.	per acre per y	ear. Minimum
	Tip blight (Monolinia), Stem and Leaf blight, Red leaf spot	4.2 lbs.	2 paks per 9.5 acres	Guava	Anthracnose, Red algae	2.5 lbs.	1 pak per 8 acres
	USE INSTRUCTIONS: Apply de Spring. Repeat at 7-day interval	s as needed th	rough prebloom.		nowering and repeat on a week harvest. Apply in sufficient wate	ty schedule unt r for thorough c	ii just before overage.
product) pe than 6.3 fb:	ictions: Do not apply more than 2. Ir acre [2 paks per 9.5 acres] per 1 3. of copper (12.6 lbs. of this produ t interval is 7 days.	application. Do	not apply more	product) per 4.92 lbs. of	ctions: Do not apply more than 1, acre [1 pak per 8 acres] per app copper (9.8 lbs. of this product) pe interval is 7 days.	lication. Do not	apply more than
Cucum bers	Angular leaf spot, Downy mildew	1.5 to 2 lbs.	3 to 4 paks per 40 acres	Hops	Downy mildew	1 lbs.	1 pak per 20 acres
	USE INSTRUCTIONS: Apply will include: Do not apply more than 1	.05 lbs. of copp	er (2.1 lbs. of this		USE INSTRUCTIONS: Make or before training. After training, at at 10-day intervals. Note: Discontinue use 2 weeks	dditional treatm	enis are needed
than 5.25 li	or acre [1 pak per 9.5 acres] per a bs. of copper (10.5 lbs. of this prod t interval is 5 days.		er year. Minimum	product) per	stions: De not apply more than 0. racre [1 pak per 20 acres] per ap s, of copper (5.3 lbs of this produ	53 lb. of coppe plication. Do n	r (1 lb. of this ot apply more
Goose- beries	USE INSTRUCTIONS: Make ini	tial application		retreatment Kiwi	Pseudomonas syringae, Erwinia herbicola,	4.2 lbs.	2 paks per 9.5 acres
	have expanded. Continue on a conditions in the Spring. Make a harvest.				Pseudomonas fluorescens USE INSTRUCTIONS: Apply in Make applications on a monthly		
product) pe 10 (bs. of c	ictions: Oo not apply more than 2 ir acre [1 pak per 4 acres] per app opper (20 ibs. of this product) per I interval is 10 days.	lication. Do no	t apply more than	product) per	applications may be made. ctions: Do not apply more than 2. racre [2 paks per 9.5 acres] per a	1 lbs. of coppe application. Do	r (4.2 lbs. of this not apply more
Dill	Phoma leaf spot, (Rhizoclonia), Foliage blight	1.5 lbs.	3 paks per 40 acres		of copper (12.6 lbs. of this produ interval is 30 days.  Downy mildew	<del>,</del>	1 to 2 paks
	USE INSTRUCTIONS: Begin as established in the field and repe	at at 7-day into	n plants are first ervals depending	Endive, Escarole	USE INSTRUCTIONS: Begin tr	eatment when	per 20 acres disease first
product) pe than 3.95 ii	upon disease severity and envir fettons: Do not apply more than 0 or acre [3 paks per 40 acres] per a be, of copper (7.9 bs, of this produ t interval is 7 days.	.79 fb. of coppo pplication. Do	or (1.5 lbs. of this not apply more	:	appears and repeat every 5 da disease. Note: Flecking and/or yellowing certain environmental condition moist weather, acid rains, or other	g of leaves will s such as exter her conditions i	occur under ided periods of avoring reduced
Eggplant	Alternaria blight, Anthracnose, Phomopsis	1,5 lbs.	3 paks per 40 acres		pH on leaf surfaces, injury may crop value, increasing the volum decrease phytotoxicity potentia	te of spray wat l.	ler will frequently
	USE INSTRUCTIONS: Begin as disease symptoms. Repeat spr needed, depending on disease	ay at 7-day inte		product) par than 8 lbs. c	ctions: Do not apply more than 1 racre [1 pak per 10 acres] per ap of copper (15 tbs. of this product) interval is 5 days.	plication. Do n	ot apply more
product) pe than 7.9 lb:	ctions: Do not apply more than 0. er acre [3 paks per 40 acres] per a s. of copper (15.8 bs. of this produ	pplication. Do	not apply mora	Litchi	Anthracnose USE INSTRUCTIONS: Make in	2.5 lbs.	1 pak per 8 acres
retreatmen Filberts	t interval is 7 days.  Bacterial blight	12 lbs.	3 paks per 5 acres		nowering and repeat on a week harvest. Apply in sufficient wate	kly schedule un r før tharough	til just before coverage.
	USE INSTRUCTIONS: Apply as August or early September, in s second spray when three-fourth	easons of hear	sprey in late ry rainfall apply a	product) pe 4.92 lbs. of	ctions: Do not apply more than 1 racre [1 pak per 8 acres] per app copper (9.8 lbs. of this product) p interval is 7 days.	ilication. Do no	t apply more than
	Add 1 pt. of superior-type oil pe Eastern filbert blight		water. 3 paks	Macadamia nuts	<del></del>	4.7 ibs.	2 paks per 8.5 acres
	USE INSTRUCTIONS: Apply as water for thorough coverage. M	a dilute spray	per 5 acres in adequate		USE INSTRUCTIONS: Initiate and repeat on a weekly schedulin sufficient water for thorough	ıle until just bef	ign of flowering ore harvest. App
	harvest in October before heave application should be made in followed by another application 1 pint of a sticking agent or sup	Winter rains to ate February to one month late	egin. The next early March r. If desired, add		Phytopthora blight (P. capsici), Raceme blight (Botrytis cinerea) USE INSTRUCTIONS: Apply d	4.5 to 4.7 lbs	per 8.5 to 6.8 acres
product) pe	water. lictions: Do not apply more than 8 er acre (3 paks per 5 acres) per acre of connect (48 the of this armous	plication. Do n	ot apply more	an (tauboral	bloom periods. Apply in sufficientions: Do not apply more than 2	ani water for the .36 lbs. of copp application. Do	per (4.7 lbs. of the nat apply more
	s, of copper (48 lbs, of this product it interval is 14 days.	y per acre per	year, minimum	retreatment	s, of copper (18.8 lbs. of this pro- interval is 7 days. KOF		50W Page 15 o



Mamey	Disease	Rate per Acre	Number of Water-Soluble Paks	Crop	_ DI
epote	Anthrecnose, Aiget leaf spot	6 to 8 ibs.	3 paks per 5 acres	Peanuts	Cercospora le
	USE INSTRUCTIONS: Apply white development, Repeat on 14-day and environmental conditions dis	schedule as d	avor disease		USE INSTRUCTION OF WHITE CONTROL OF THE CONTROL OF
product) per : than 8.4 lbs. (	ions; Do not apply more than 2.1 acre [2 paks per 9.5 acres] per ap of copper [16.8 lbs. of this produc	plication. Do	not apply more		Note: The use added. rictions: Do no er acre (3 paks
Mangoes	Anthracnosa	5.2 lbs.	3 paks	than 4.74	ibs. of copper ( nt interval is 7 d
	USE INSTRUCTIONS: Apply mo	nthly after fruit	per 11.5 acres set until hervest.	Pears	Fire blight USE INSTRU
product) per ( han 18.2 ibs.	ions: Do not apply more than 2.6 acre [3 paks per 11.5 acres] per i of copper (36.4 lbs. of this produ terval is 30 days.	ppäcation. Do	not apply more		bloom period. Blossom blas blight)
Dives	Pezcock spot, Olive knot	6.3 lbs.	3 paks per 9.5 acres		USE INSTRU
	USE INSTRUCTIONS: Make fire fall A second application in earl disease is severe. Apply the high	y Spring shoul	afore Winter rain d be made if		disease press of such. Note: May ca
ise Restrict	pressure or when conditions fav ions: Do not apply more than 3.1	or such.		than 8 lbs	rictions: Durin . of copper (16 n. Only one app
produci) per : than 6.3 lbs. :	icre [3 paks per 9.5 acres] per a of copper (12.6 lbs. of this produc	polication. Do	not apply more	period, do	not apply more 20 acres] per
otreetment ir Onions	Purple blatch, Downy mildew	2 lbs.	1 pak	Do not ap year.	ply more than 1
	USE INSTRUCTIONS: Begin wi	nen plants are	per 10 acres 4 to 8 inches high	Peas	Powdery mild
	and repeat at 7-day intervals or disease severity. Can cause phy	as needed, de	pending on		USE INSTRU
	Bacterial blight	1 to 1.5 lbs.	1 pak per 13.3 to 20 acres		rate for more brictions: Do no
	USE INSTRUCTIONS: Begin wi and repeat at 7-day intervals or disease severity. Can cause ph	as needed, de	pending on	than 3.95 retreatme	er acre [3 paks lbs. of copper i nt interval is 7 d
red (faubore	ions: Do not apply more than 1 i acre [1 pak per 10 acres] per app	dication. Do no	of apply more than	Pecans	Shuck and Ke (Phytophthon Zonate leaf s
etreatment in	er (12 lbs. of this product) per ac iterval is 7 days.				pyremidells) USE INSTRU
Papaya	Anthracnose	4 to 5.2 lbs.	3 paks per 11.5 to 15		ensure compl at kernel grov
	USE INSTRUCTIONS: Apply be 10 to 14 day intervals under ligh	it disease pres	sure and at 5- to		mete and shore Mosses, Alga
	7-day intervals under heavy disc any approved spreader is desir		ine acciuon o		USE INSTRU basis and ap
product) per then 21,2 lbs	tions: Do not apply more than 2.6 acre [3 paks per 11.5 acres] per : . of copper (42.4 lbs. of this productions) in the production of the productions.	application. Do	not apply more	product) p	wetting fimbs trictions: Do no per acre [2 paks
Parsley	Bacterial blight (Pseudomonas sp.)	2 lbs.	1 pak per 10 acres		bs. of copper (1 nt interval is 14 IBall Moss
	USE INSTRUCTIONS: Begin ap established in the field and repe depending upon disease severi	at at 10-day in	ntervals	(FL and TX)	USE INSTRU
oroduct) per 2 lbs. of copt	tions: Do not apply more than 1 acrs [1 pak per 10 acres] per app er (4 lbs. of this product) per acr	b. of copper (2 dication. Do no	bs. of this ot apply more than		the Spring, wispray per foo thoroughly. A Note: This pr Live Oaks. Th
nterval is 10 Passion fruit	Anthracnose	4.7 lbs.	2 paks per 8.5 acres		surfaces. Do
Passion fruit	USE INSTRUCTIONS: Make iniflowering and repeat on a week	tial application	just before		(Phytophther Zonate leaf s
	The common of th	ny achieuwie un	br just belole		pyramidalis)
Vse Restric	harvest. Apply in sufficient wate tions: Do not apply more than 2.	r for thorough t 36 lbs, of copp	er (4.7 lbs. of this		USE INSTRU
product) per than 9.44 fbs retreatment i	harvest. Apply in sufficient wate liens: Do not apply more than 2. acre [2 paks per 8.5 acres] per a of copper (18.8 lbs. of this produterval is 7 days.	r for therough to 36 lbs, of copp pplication. Do uct) per acre p	er (4.7 fbs. of this not apply more er year. Minimum		USE INSTRU ensure comp at kernel grow rate and shor
product) per than 9,44 fbs retreatment in Peaches,	harvest. Apply in sufficient wate tiens: Do not apply more than 2.: acre [2 paks per 8.5 acres] per a of copper (18.8 lbs. of this prod	r for thorough to 36 lbs, of copp pplication. Do	er (4.7 fbs. of this not apply more		USE INSTRU ensure complet kernel grov rate and shor Mosses, Alga USE INSTRU basis and ap
product) per than 9,44 fbs retreatment is Peaches,	harvest. Apply in sufficient wate liens: De not apply more than 2: acre [2 paks per 8.5 acres] per a. of copper (18.8 lbs. of this produterval is 7 days.  Leaf curl, Coryneum blight (shot hole), Bacterial cankor and Blast [Pseudomonas].  Bacterial spot (Xanthomonas)  USE INSTRUCTIONS: Apply at	r for therough to 38 lbs. of copp pplication. Do uct) per acre p	er (4.7 bs. of this not apply more er year. Minimum  1 to 2 paks per 2.5 scres he highest rate		USE INSTRU ensure complet kernel grov rate and shor Mosses, Alga USE INSTRU basis and ap wetting limbs trictions: Oon
product) per than 9.44 fbs retreatment in Peaches,	harvest. Apply in sufficient wate tiens: Do not apply more than 2: acre [2 paks per 8.5 acres] per a. of copper (18.8 lbs. of this produterval is 7 days.  Leaf curi, Coryneum blight (shot hole), Bacterial canker and Blast [Pseudomons), Bacterial spot (Xanthomones)	r for therough : 36 ibs. of copp pplication. Do uct) per scre p  8 to 18 ibs. leaf fall. Use ti disease press	er (4.7 bs. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres he highest rate ure is high. May  3 paks	product) than 8.4	USE INSTRU ensure comp at kernel grov rate and shor Mosses, Alga USE INSTRU basis and ap wetting limbs trictions: Do n bbs, of copper (1
product) per than 9,44 fbs retreatment is Peaches,	harvest. Apply in sufficient wate tilens: Do not apply more than 2. acre [2 paks per 8.5 acres] per a. of copper (18.8 lbs. of this proditorval is 7 days.  Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast [Paeudomonas], Bacterial spot (Xanthomones)  USE INSTRUCTIONS: Apply at when rainfall is very heavy and the used with agricultural spray.  Brown rot blossom blight  USE INSTRUCTIONS: Apply at Application at this time affords	for thorough it is to the control of	coverage. er (4.7 Ds. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres  he highest rate ure is high. May  3 paks per 20 acres sy at pink bud.	product) than 8.4	USE INSTRU ensure compiler at kemel grov rate and shor Mossos, Alga USE INSTRU basis and any wetting limbs trictions: Do n per acre [2 pek bs. of copper (1 int interval is 14 Bacterial spo
product) per than 9.44 fbs retreatment in Peaches,	harvest. Apply in sufficient wate liens: Do not apply more than 2. acre [2] paks per 8.5 acres] per a. of copper (18.8 lbs. of this product herval is 7 days.  Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast [Pseudomonas], Bacterial spot (Xanthomones)  USE INSTRUCTIONS: Apply at whear rainfall is very heavy and be used with agricultural spray of Brown rot blossom blight  USE INSTRUCTIONS: Apply at	for thorough it is to the control of	coverage. er (4.7 Ds. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres  he highest rate ure is high. May  3 paks per 20 acres ay at pink bud. f Leaf curl and	product) than 8.4 retreatme	USE INSTRU ensure complete statement grov rate and shor Mosses, Alga USE INSTRU basis and ap wetting limbs trictions: Do par acre [2 pak
product) per than 9,44 fbs retreatment is Peaches,	harvest. Apply in sufficient wate tiens: Do not apply more than 2. acre [2 paks per 8.5 acres] per a. of copper (18.8 lbs. of this productival is 7 days.  Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast (Pseudomonas), Bacterial spot (Xanthomones) USE INSTRUCTIONS: Apply at when rainfall is very heavy and be used with agricultural spray. Brown rot blossom blight  USE INSTRUCTIONS: Apply as Application at this time affords Coryneum blight.  Bacterial spot	for thorough it is to the form of the form	er (4.7 Ds. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres  he highest rate use is high. May  3 paks per 20 acres by at pink bud, f Leaf curl and  1 pak per 20 acres	product) than 8.4 retreatme Peppers Use Res	USE INSTRU ensure compile to the medigrov rate and shor Mosses, Alga USE INSTRU basis and ap- wetting limbs trictions: Do n per acre [2 pak- be, of copper (1) int interval is 14 Bacterial spo USE INSTRU favor disease depending of trictions: Do n
product) per than 9,44 fbs retreatment is Peaches,	harvest Apply in sufficient wate tiens: Do not apply more than 2. acre [2 paks per 8.5 acres] per a. of copper (18.8 lbs. of this proditerval is 7 days.  Leaf curi, Coryneum blight (shot hole), Bacterial canker and Blast [Paeudomonas], Bacterial spot (Xanthomonas) USE INSTRUCTIONS: Apply at when rainfall is very heavy and be used with agricultural spray. Brown rot blossom blight  USE INSTRUCTIONS: Apply at Application at this time affords Coryneum blight.  Bacterial spot  USE INSTRUCTIONS: Make posecond cover sprays.	for thorough to some control of the	per 20 acres  apply more er year. Minimum  1 to 2 paks per 2.5 acres  the highest rate ure is high. May  3 paks per 20 acres ay at pink bud. f Loaf curl and  1 pak per 20 acres cation at first and	product) than 8.4 retreatme Peppers Use Res product) than 11.8	USE INSTRU ensure compile at kemel grov rate and shor Mosses, Alga USE INSTRU basis and app wetting limbs trictions: Do n par acre [2 pak ba. of copper (1) nit interval is 14 Bacterial spo USE INSTRU favor disease depending of trictions: Do n per acre [3 pak 5 bs. of coppee
product) per than 9,44 fbs retreatment in Peaches,	harvest. Apply in sufficient wate tiens: Do not apply more than 2. acre [2 paks per 8.5 acres] per a. of copper (18.8 lbs. of this productival is 7 days.  Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast (Pseudomonas).  Bacterial spot (Xanthomones)  USE INSTRUCTIONS: Apply at when rainfall is very heavy and be used with agricultural spray.  Brown rot blossom blight  USE INSTRUCTIONS: Apply as Application at this time affords Coryneum blight.  Bacterial spot  USE INSTRUCTIONS: Make posecond cover sprays.	for thorough it is to the form of the form	er (4.7 Ds. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres  he highest rate use is high. May  3 paks per 20 acres ay at pink bud, f Leaf curl and  1 pak per 20 acres cation at first and  2 paks per 5 acres	product) than 8.4 retreatme Peppers Use Res product) than 11.8 retreatme	USE INSTRUENTS OF THE PROPERTY
product) per than 9.44 fbs retreatment is Peaches, Nectarines	Instruct Apply in sufficient wate tiens: Do not apply more than 2. acre [2] paks per 8.5 acres] per a. of copper (18.8 lbs. of this prodition there is a copper (18.8 lbs. of this prodition that is a copper (18.8 lbs. of this prodition that is a copper (18.6 lbs. of this prodition that is a copper (18.6 lbs. of this prodition and Blast [Pseudomonas]. Bacterial spot (Xanthomonas) USE INSTRUCTIONS: Apply at Application at this time affords Coryneum blight.  USE INSTRUCTIONS: Apply at second cover sprays.  Bacterial spot  USE INSTRUCTIONS: Make possessing the second cover sprays.  Bacterial spot  USE INSTRUCTIONS: Apply at tions: Ouring the dormant or late	for thorough it is to thorough the state of copp pplication. Do until per acre put the state of	per 20 acres  at 1 pak per 20 acres  at 1 pak per 20 acres  ay at pink bud. f Leaf curl and per 20 acres  ay at pink bud. f Leaf curl and  2 paks per 20 acres  ay at pink bud. f Leaf curl and  2 paks per 3 acres  cation at first and  2 paks per 5 acres  ray. d, de not apply	product) than 8.4 retreatme Peppers Use Res product) than 11.8 retreatme	USE INSTRU ensure compiler at kemel grov rate and shor Mosses, Alga USE INSTRU basis and ap wetting limbs trictions: Do n per acre [2 per (1) favor disease depending of trictions: Do n per acre [3 pak 5 bs. of copper int interval is 14  Bacterial spo USE INSTRU favor disease depending of trictions: Do n per acre [3 pak 5 bs. of copper int interval is 3 is s Botytis bligh (Botytesphai Shoot blight, Late b
product) per than 9.44 fbs retreatment is Peaches, Nectarines	Ingreest Apply in sufficient wate tiens: Do not apply more than 2: acre [2] paks per 8.5 acres] per a. of copper (18.8 lbs. of this prodition there is a second cover special per a. of copper (18.6 lbs. of this prodition to the second cover special special special canker and Blast [Pseudomonas]. Bacterial spec (Xanthomonas) USE INSTRUCTIONS: Apply at when rainfall is very heavy and be used with agricultural spray. Brown rot blossom blight  USE INSTRUCTIONS: Apply at Application at this time affords Coryneum blight.  Bacterial spot  USE INSTRUCTIONS: Make posecond cover sprays.  Bacterial spot  USE INSTRUCTIONS: Apply at tions: Ouring the dormant or late bs. of copper (16 lbs. of this progification. Minimum retreatment is	s to 16 ibs.  8 to 16 ibs.  8 to 16 ibs.  leaf fall. Use tidisease pressoil.  3 ibs.  1 lb.  still cover sprasome control of the second applies to the second applies the sec	er (4.7 Ds. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres  the highest rate ure is high. May  3 paks per 20 acres  by at pink bud. If Loaf curl and  1 pak per 20 acres  cation at first and  2 paks per 5 acres  cray.  d. do not apply 4 paks per 5 5. During the	product) than 8.4 retreatme Peppers Use Res product) than 11.8 retreatme	USE INSTRU ensure compiler at kemel grov rate and shor Mossos, Alga USE INSTRU basis and ap wetting limbs trictions: Do no per acre [2 pak bs. of copper (1 nt interval is 14 Bacterial spo USE INSTRU favor disease depending of trictions: Do no trictions: Do no so foopper nt interval is 3 of s Botytis bligh (Botyosphas Shoot blight, blight, Late b altemate) USE INSTRU
Use Restrictions of the street	Instruct Apply in sufficient wate tiens: Do not apply more than 2: acre [2] paks per 8.5 acres] per a. of copper (18.8 lbs. of this productival is 7 days.  Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast (Pseudomonas), Bacterial spot (Xanthomonas)  USE INSTRUCTIONS: Apply at when rainfall is very heavy and the used with agricultural spray of Brown rot blossom blight  USE INSTRUCTIONS: Apply as Application at this time affords Coryneum blight.  Bacterial spot  USE INSTRUCTIONS: Make posecond cover sprays.  Bacterial spot  USE INSTRUCTIONS: Apply as the spot apply as according to the sprays.  Bacterial spot  USE INSTRUCTIONS: Apply as the spot apply as according to the sprays.  Bacterial spot	s do thorough to so the	poverage.  er (4.7 Ds. of this not apply more er year. Minimum  1 to 2 paks per 2.5 acres  the highest rate ure is high. May  3 paks per 20 acres ay at pink bud. 1 pak per 20 acres cation at first and  2 paks per 5 acres  ray. d. do not apply (4 paks per 5 s. During the copper (3 lbs. of Minimum)	Product) than 8.4 retreatme Peppers  Use Res product) than 11.8 retreatme	USE INSTRUENSURE COMPILE TRANSPORTE AND

Crop	Disease	Rate per Acre	Number of Water-Soluble Paks				
eanuts	Cercospora leaf spot	1.5 lbs.	3 paks per 40 acres				
	USE INSTRUCTIONS: Begin applicating or when disease symptoday intervals as needed.  Note: The use of 1 to 2 quarts caded.	oms first appea	40 days after or and repeat at 7-				
than 4.74 il	ictions: Do not apply more than or acre [3 paks per 40 acres] per os, of copper (9.5 lbs of this pro- t interval is 7 days.	0.79 lb. of cop application, D duct) per acre	per (1.5 lbs, of this o not apply more per year. Minimum				
Pears	Fire blight USE INSTRUCTIONS: Apply at bloom period.	1 lb. 5-day intervals	1 pak per 20 scres throughout the				
	Blossom blast (Pseudomonas blight) USE INSTRUCTIONS: Apply be		3 to 4 paks per 5 acres				
	dormancy before Spring growth disease pressure is high or whe of such. Note: May cause Fruit russet or	starts. Use the n conditions fa	higher rates when ver the development				
than 8 lbs. application period, do [1 psk per	sctions: During the Fall or late d of copper (16 bs. of this produc). Only one application per seaso not apply more than 0.5 b. of co 20 acres] per application. Minim ly more than 16 bs. of copper (3	i) per acre (4 p n. Ouring the b pper (1 lb. of t um retreatmen	aks per 5 acres) per loom or growing nis product) per acre t interval is 5 days.				
Peas	Powdery mildew	1,5 lbs.	3 paks per 40 acres				
a (faubara	USE INSTRUCTIONS: Begin as first appear and repeat at week rate for more severe disease. Intitions: Do not apply more than a cre [3 paks per 40 acres] per 40 acres] per 40 acres]	ty intervals as a	per (1.5 lbs. of this o not apply more				
than 3.95 i retreatmen	bs. of copper (7.9 lbs. of this pro t interval is 7 days.	duct) per acre	per year. Minimum				
Pecans	Shuck and Kernel rot  (Phytophthora cactorum),  Zonate leaf spot (Cristulariella  pyramidalis)	2 to 4 lbs.	1 to 2 paks per 10 acres				
	USE INSTRUCTIONS: For suppression, apply in sufficient water to ensure complete spray coverage at 2- to 4-week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter intervals if frequent rainfall occurs.						
	Mosses, Alga, Lichen	4.2 lbs.	2 paks per 9.5 acres				
product) pe than 8.4 lb	wetting fimbs and mosses.  lettions: Do not apply more than  er acre [2 paks per 9.5 acres] pe  s. of copper (16.8 lbs. of this pro  it interval is 14 days.	r application, (	Do not apply more				
Pecans (FL and	Ball Moss	4.2 lbs.	2 paks per 9.5 acres				
TX)	USE INSTRUCTIONS: Apply 8 pounds per 100 gatons of water, in the Spring, when Ball moas is actively growing, using 1.5 gallons of spray per foot of free height. Make sure to wet Ball moas tufts thoroughly. A second application may be required after 12 months. Note: This product may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonary surfaces. Do not spray on care, houses, lawn furniture, etc.						
	Shuck and Kernel rot (Phytophthora cactorum), Zonate leaf spot (Cristulariella pyramidalis)	2 to 4 lbs.	1 to 2 paks per 10 acres				
	USE INSTRUCTIONS: For sup- ensure complete spray coverage at kernel growth and continuing rate and shorter intervals if freq	e at 2- to 4-we until shucks of uent rainfall oc	ek intervals starting en. Use the higher curs.				
	Mosses, Alga, Lichen USE INSTRUCTIONS: Mix with	4.2 lbs.	2 paks per 9.5 acres er on a dilute spray				
Use Rest	basis and apply in dormant sea wetting limbs and mosses. rictions: Do not apply more than						
product) p than 8.4 to retreatmen	er acre [2 paks per 9.5 acres] pe is, of copper (16.8 lbs. of this pro it interval is 14 days.	ar application. iduct) per acre	per year. Minimum				
Peppers	Bacterial spot USE INSTRUCTIONS: Begin a	1.5 lbs. pplications who	3 paks per 40 acres en conditions first				
Use Rest	favor disease development and depending on disease severity rictions: Do not apply more than	repeat # 3-da 0,79 lb. of co	y Intervals as neede				
retreatme	er acre [3 paks per 40 acres] pe i bs. of copper (23.7 bs. of this nt interval is 3 days.	4 to 4.2 lbs.	re per year, Minimu				
r 16組の1104	Botrytis blight (Botryosphaeris), Panicle and Shoot blight, Septoria leaf blight, Late blight (Alternaria alternata)		per 9.5 to 10 acre				
	USE INSTRUCTIONS: Make in repeat on a 14-day schedule audisease conditions are severe.	s dictated by d use the high r	isease conditions. If ate.				
product) p	rictions: Do not apply more than er acre [2 paks per 9.5 acres] po es, of copper (16.8 lbs, of this pro nt interval is 14 days.	n 2.1 IDS, Of CO er application, oduct) per acre	pper (4.2 ibs, of this Do not apply more per year. Minimum				
		OP-HYDROXI	DE 50W Page 16 of				



Crop	Disease	Rate per Acre	Number of Water-Soluble Paks	Стор	Disease	Rate per Acre	Number of Water-Soluble Paks
lums, runes	Coryneum blight (shot hole)	8 to 16 lbs.	1 to 2 paks per 2.5 acres	Sugar apple	Anthrecnose	6.3 lbs.	3 paks per 9.5
	USE INSTRUCTIONS: Apply as rate when rainfall is heavy and/or			(Annona)	USE INSTRUCTIONS: Make in	itial application	acres just before
	Brown rot, Blossom blight	3 lbs.	3 paks per 20 acres		flowering and repeat on a week harvest. Apply in sufficient wate	r for thorough c	overage.
	USE INSTRUCTIONS: Apply full early white stage. Use the higher heavy or conditions favor the dev	rate when disc elopment of su	ch.	product) per a than 12.6 lbs.	ions: Do not apply more than 3, acre [3 paks per 9,5 acres] per a of copper (25,2 lbs. of this prod iterval is 7 days;	pplication. Do a	not apply more
inan 8 ibs. of application. N period, do no	ions: During the dormant or tate of copper (15 bs. of this product) pe limimum retreatment interval is 7 of t apply more than 1.5 bs. of copp 0 acres) per application. Minimum 0 acres) per application. Minimum	ir acre (4 paks ays. During the er (3 lbs. of thi	per 5 acres) per bloom or growing product) per acre		Cercospora leaf spot	2 to 2.6 lbs.	3 paks per 23 to 30 acres
o not apply eac	more than 18 lbs. of copper (36 lb	s. of this produ	ct) per acre per		USE INSTRUCTIONS: Begin a favor disease development and needed. Use the higher rate wh	repeat at 10-d	ay intervals as
Potatoes	Early blight, Late blight USE INSTRUCTIONS: Apply at 1	1 to 4 lbs.	1 to 4 paks per 20 acres	lice Restrict	of Surf-Ac® 820 or a suitable ag	ricultural oil is r	ecommended.
	acres) at 7- to 10-day intervals at high until 2 weeks before harvest light. Use 3 to 4 lbs. per acre (3 disease is more severe. Under c	arting when plain locations with 4 paks per 2	ents are 6 inches here disease is 0 acres) where	product) per a than 7.86 lbs.	acre [3 paks per 23 acres] per a of copper (15.7 bs. of this prod sterval is 10 days.	pplication. Do r	ot apply more
lles Brasses	control with this product will be in compatible fungicides registered follow all label instructions of teni	proved by tani for use on Pol mbs partners.	k mixing with other stoes. Read and	Tomatoes	Early blight, Late blight, Bacterial speck, Bacterial spot Anthracnose, Gray leaf mold, Septonia leaf spot	1 B.	1 pak per 20 acres
product) per a bs. of coppea interval is 5 d		per year. Minin	apply more than 25 num retreatment		USE INSTRUCTIONS: Begin w repeat at 3-day intervals or as severity.		
Pumpkin, Squash	Powdery mildew USE INSTRUCTIONS: Begin ap	1.5 to 2.1 bs.	1 pak per 9.5 to 13.3 acres	product) per i than 17.4 lbs	tions: Do not apply more than 0. acre [1 pak per 20 acres] per ap of copper (34.8 lbs. of this prod	plication. Do no	t apply more
	old or when disease symptoms f intervals as needed to maintain o	irst appear and control. Use the	repeat at 7-day	Walnuts	merval is 3 days. Walnut blight	6.3 lbs.	3 paks per 9.5 acres
product) per a	disease is heavy or conditions fa tions: Do not apply more than 1.0 acre (1 pak per 9.5 acres) per app	5 lbs. of coppe lication. Do no	t apply more than		USE INSTRUCTIONS: Apply fit bloom prior to when catkins are		pray at early pre
5.25 lbs. of c	opper (10.5 lbs. of this product) po sterval is 5 days.	er acre per yea	r. Minimum		additional applications during b	loom and early	nutlet stage or
Juince Jse Restrici	Fire blight USE INSTRUCTIONS: Apply at 5 period. Lons: Do not apply more than 0.5				catkins, leaves and nutlets is en When applied as a dilute spray may be added per 100 gallons Note: Adequate control may no	t, 1 pint of Sumi of spray. of be obtained t	mer oil emulsion when copper
	ak per 20 acres) per application. I s. of this product) per acre per ye				tolerant species of Xanthomon tions: Do not apply more than 3	15 lbs. of copp	er (6.3 lbs. of th
	Leaf spot, Cane spot, Purple biolch, Anthracnose, Yellow rust, Pseudomonas blight	4 fbs.	1 pak per 5 acres	than 25.2 lbs retreatment in	acre [3 paks per 9.5 acres] per a , of copper (50.4 lbs, of this productional is 7 days.	uct) per acre p	er year, Minimur
	USE INSTRUCTIONS: Apply as training in the Spring. Make Fall of crop oil per acre.			Watercress	Cercospora leaf spot USE INSTRUCTIONS: Begin a	1 lb,	1 pak per 20 acres n plants are firs
	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust	2 fbs.	1 pak per 10 acres	1	established in the field, repeati depending on disease severity	ng at 7- to 14-d and environme	ay intervals ntal conditions.
	USE INSTRUCTIONS: Apply who repeat when flower buds show w acre. Note: Crop injury may occur if a	hite. Add one i	quart of crop oil per		Do not exceed 4 applications paper acre.	n 50 gallons of	spray solution
Use Restrict	conditions such as hot or prolong application if signs of crop injury tions: Do not apply more than 2 if	ed moist perions appear, os. of copper (4	ds. Discontinue	product) per than 2.12 lbs	tions: Do not apply more than 0 acre [1 pak per 20 acres] per ap , of copper (4,2 lbs, of this produ nterval is 7 days.	plication. Do n	ot apply more
	acre [1 pak per 4 acres] per appli r (20 lbs, of this product) per acre ays.  False smut and Panicke bight				Anthracnose, Baclerial fruit blotch (suppression), Downy mildew	1.5 to 2 lbs.	3 to 4 paks per 40 acres
(Except CA)	USE INSTRUCTIONS: Begin ap repeat at 7- to 10-day intervals of	plications at lat	per 20 acres le boot stage and		USE INSTRUCTIONS: Apply a established in the field and rep	eat at 5-day int	ervals as
	Use higher rate and shorter spra is high or environmental condition development, DO NOT drain the	y interval when ns are favorabl	disease pressure e for disease		needed, depending upon disea when conditions favor disease tions: Do not apply more than 1	.05 lbs. of copp	er (2.1 lbs. of th
Spinach	application. Anthracnose, Blue mold, Cercospora leaf spot, White rust		3 paks per 40 acres	than 5.25 lbs	acre [1 pak per 9.5 acres] per a . of copper (10.5 lbs., of this prod nterval is 5 days.	luct) per acre p	er year. Minimu
	USE INSTRUCTIONS: Begin ap appears or conditions favor dise intervals as needed. Note: Flecking may occur on Sp	ase developm		Wheat, Barley, Oats	Septoria leaf blotch, Helminthosporium spot blotch USE INSTRUCTIONS: Make fi	1 lb.	1 pak per 20 acres at early heading
product) per	tions: Do not apply more than 0.7 acre [3 paks per 40 acres] per ap opper (7.9 ibs. of this product) pe	9 b. of copper plication. Do n	ot apply more than	llee Bastis	and follow with a second spray rates when conditions favor dis tions: Do not apply more than 0	10 days later.	Use the higher
retreatment i	nterval is 7 days. Leaf spot, Leaf blight	2 to 3 lbs.	3 paks per 20 to 30 acres	product) per than 1.06 lbs	acre [1 pak per 20 acres] per a cof copper (2.1 lbs. of this production thereal is 10 days.	oplication. Do n	ot apply more
i	L		1 50. 20 20 20 20 20	I to a d d d a si o si i i	1100170110 14 4070.		_

Use Restrictions: Do not apply more than 1 ib. of copper (2 ibs. of this product) per acre (1 pak per 10 acres) per application. For severe disease infection, do not apply more than 1.5 ibs. of copper (3 ibs. of this product) per acre (3 paks per 20 acres) per application. Do not apply more than 8.19 ibs. of copper (18.3 ibs. of this product) per acre per year. Minimum retreatment interval is 7 days.

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#### CITRUS

Disease	Rate per Acre	Number of Water-Soluble Paks			
Melanose, Scab,	6.3 bs.	3 paks per 9.5 to 15 acres			
Algal spot	USE INSTRUCTIONS: Ap	ply as prebloom and post-			
Greasy spot,	2 to 6 ibs.	1 to 3 paks per 10 acres			
Pink pitting	new flush. Repeat on subs	ply in Summer on expanded sequent flushes where disease igher rates when conditions			
Altemaria	6.3 lbs.	3 paks per 9.5 acres			
	USE INSTRUCTIONS: On susceptible varieties apply when the first Spring flush appears and each flush thereafter. Application to the fluit should start after two-thirds of the petals have fallen and be repeated on a 21 day schedule.				
Phytophthora	4 to 6.3 lbs.	3 paks per 9.5 to 15 acres			
brown rot, Septoria spot	USE INSTRUCTIONS: Begin application in Fail and confinue as needed. Apply to entire tree, Apply also to bare ground 1 ft. beyond skirt. Make foilar applications to protect developing fruit in orchards with previous disease history or when conditions favor disease development. Use higher rates when conditions favor disease. Note: h CA, in areas subject to copper injury, add 0.33 to 1 b. of high quality time per ib. of this product.				
Citrus center	6.3 fbs.	3 paks per 9.5 acres			
(suppression only)	USE INSTRUCTIONS: Spray flushes 7 days after shoots begin to grow. Young fruit may require an additional application. Number and timing of applications will be dependent on disease pressure. Under heavy disease pressure, each flush of new growth should be sprayed.				
Phytophthora foot	1 b.	1 pak per 20 acres			
rol	USE INSTRUCTIONS: Mix with 1 gal. of water and 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 for protection up to one year, but does not cure avisting infections.				

product) per acre (s paks per 9.5 acres) per application. Do not apply more than 12.6 his, of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.

Note: Adding foliar nutritionals to spray mixtures containing this product or other products and applying to Citrus during the postbloom period when young trult is present may result in spray burn. Do not use this product on Citrus seedlings grown in greenhouses or shadehouses.

### CITRUS (Field Nursery Grown)

To control Melanose, Scab, Pink pitting, Greasy spot, Brown rot and for Citrus canker (suppression), apply 2.0 pounds of this product per 100 gallons of water (4 to 6.3 lbs./acre)(3 paks per 9.5 to 15 acres). Apply this product at 28-day intervals or as needed depending on disease severity.

#### **ORNAMENTALS**

Notice to User: Plant sensitivities to copper hydroxide have been found to be acceptable in specific genera and species listed on this label; however, phytotoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for sensitivity to this product. Neither the manufacturer nor seller has determined whether or not this product can be safely used on ornamental or nursery plants not listed on this label. The user should determine if this product 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.

Use this product on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, for professional use on ornamentals grown for indoor and outdoor landscaping, and for control of bacterial and fungal diseases of foliage,

Apply as a thorough coverage spray using 1 pound of this product per 100 gallons of water [1 pak per 20 acres]\*. Begin application at first sign of disease and repeat at 7- to 14-day intervals as needed; use shorter interval during

periods of frequent rains or when severe disease conditions persist.

\*Note: Based on the rate of 1 pound of this product in 100 gallons of water per acre. This product may be used as a maintenance spray. This product may be used as a maintenance spray alone or in combination with other fungicides such as dithiocarbarnates.

#### **USE RESTRICTIONS:**

On Easter Lilies: Do not apply more than 2.5 lbs. of copper (5 lbs. of this product) [1 pak per 4 acres] per acre per application. Do not apply more than 75 lbs. of copper (150 lbs. of this product) per acre per year. Retreatment interval is 7 days. Note: Do not apply any other pesticide containing copper to this land for 36 months.

On All Other Ornamentals: Do not apply more than 2 lbs. of copper (4 lbs. of this product) [1 pak per 5 acres] per acre per application. Do not apply more than 9 lbs. of copper per acre per year. Minimum retreatment interval is 3 days.

Ornamentals	Disease
Althea (Rose of	Bacterial leaf spot
Sharon)	
Aralia -	Alternarie, Bacterial fruit blotch (suppresion), Cercospora leafspot, Downy mildew, Xanthomonas leafspot
Arborvitae	Alternaria twig blight, Cercospora leaf blight
Azalea*	Botrytis blight, Cercospora leaf spot, Phytophthora dieback, Powdery mildew
Begonia	Bacterial leaf spot (Xanthomonas sp., Erwinia sp., Pseudomonas sp.)
Bougainvillea	Anthracnose, Bacterial leaf spot
Bulbs, (Tulip, Gladiolus)	Anthracnose, Botrytis blight
Camellia	Anthracnose, Bacterial leaf spot
Camphor tree	Pseudomonas leaf spot
Canna	Pseudomonas leaf spot
Camation*	Alternaria blight, Botrytis blight, Pseudomonas teaf spot
Chinese tallow tree	Bacterial leaf spot (Xanthomonas sp., Pseudomonas sp.)
Chrysanthemum*	Botrytis blight, Septona leaf spot
Cotoneaster	Sctrytis blight
Dahila	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Date palm	Pestalotia leaf spot
Dianthus	Sacterial spot, Bacterial soft rot
Dogwood	Anthrechose
Dusty miller	Bacterial leaf spot (Pseudomonas cichorii)
Easter fily**	Botrytis bright
Echinacea	Bacterial leaf spot (Pseudomonas cichorii)
Elm "Drake"	Xanthomonas leaf spot
Euonymus	Anthracnose, Botrytis blight
European fan palm	Pestalotia leaf spot
Gardenia	Atternaria leaf spot, Botrytis bud rot, Cercospora leaf spot
Geranium	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Gladiolus	Alternaria leaf spot, Botrytis gray mold, Bacterial leaf blight
Goiden rain tree	Bacterial leaf spot
Hibiscus	Bacterial leaf spot
Holly fem	Pseudomonas leaf spot
impatiens	Bacterial leaf spot
Indian hawthom***	Anthracnose, Entomosporlum leaf spot
lvy (English, Algerian)*	Xanthomonas leaf spot
brora	Xanthomonas leaf spot
Juniper (Easter red cedar)	Anthracnose
Lantana	Bacterial leaf spot
Lilac	Cercospora leaf spot
Lobiolly bay	Anthracnose
Loquat	Entomosporium maculata, Colletotrichum sp.
Magnolia (Southern)	Algal leaf spot, Anthracnose, Bacterial leaf spot
Magnolia (Sweet bay)	Anthracnose
Magnolia	Bacterial leaf spot
Mandevillas	Anthracnose
Marigold	Afternaria leaf spot, Botrytis leaf and flower rot, Cercospora leaf spot
Mulberry, weeping	Bacterial leaf spot
Oak, laurel	Algal leaf spot (Cephaleuros virescens)
Oleander	Bacterial leaf spot, Fungal leaf spot
Pachysandra	Volutelia leaf biight
Pansy	Downy mildew
Pear (Flowering)	Fireblight, Leaf spot
. ou ( overling)	KOP-HYDROXIDE 50W Page 18 of 19

Omamentals	Disease	
Pentas (Egyptian star)	Bacterial leaf spot (Xanthomonas sp.)	
Peony	Botrytis blight	
Periwinkle	Phomopsis stem blight	
Philodendron	Bacterial leaf spot	
Phiox	Alternaria leaf spot	
Photinia (Red top, Red leaf)	Anthracnose, Entomosporium	
Pistachio	Anthracnose	
Plantain fly	Bacterial leaf spot	
Powder pulf plant	Bacterial leaf spot	
Pyracantha	Fireblight, Scab	
Queen palm	Exosporium leaf spot, Phytophthora bud rot	
Rhododendron	Alternaria flower spot	
Rose*	Black spot, Powdery mildew	
Verbena	Xanthomonas leaf spot	
Vibunum	Anthracnose	
Washingtonia palm	Pestalotia leaf spot	
Weeping willow	Anthracnose	
Yucca (Adam's needle)	Cercospora leafspot, Septoria leafspot	

- Discoloration of foliage and/or blooms have been noted on some varieties. To prevent residues on commercial plants, do not spray just before setting season.

  Note: Phytotoxicity may depend on varietal differences. If unfamiliar with the use of this product, apply the recommended rate to a few plants and observe after 7 to 10 days for symptoms of phytotoxicity. For Easter By, use 3 to 5 bis, per acre in 20 to 100 gallons water. For Indian hawthorn, use 2 to 4 bis, per 100 gallons.

ORNAMENTAL TREES				
Crop	Disease	Rate per Acre	Number of Water-Soluble Paks	
Douglas	Rhabdocline needlecast	2 lbs.	1 pak per 10 acres	
fir	at 3- to 4-week intervals. A	RUCTIONS: Begin applications at bud break and repea seek intervals. Apply in a tank mix another registered moderate to severe disease pressure is present.		
Use Restrictions: Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre [1 pak per 5 acres] per application. Do not apply more than 20 lbs. of copper (40 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.				
Live oak	Bail moss	4 Ds.	1 pak per 5 acres	
USE INSTRUCTIONS: Apply in 100 gallons of water in the Spric when Ball moss is actively growing using 1.5 gals. of spray per of tree height. Make sure to wat ball moss turts thoroughly. A second application may be required after 12 months. Note: This product may be injurious to ornamentals grown under Live oaks. This product may be reactive on metal and masonny surfaces. Do not spray on cars, houses, lawn furnitures, atc.				
product) po 20 lbs. of a	rictions: Do not apply more er acre [1 pak per 5 acres] ; copper (40 lbs. of this produ nt interval is 7 days.	er applicat	ion. Do not apply more than	
Sycamore	Anthracnose	2 to 3 ths	2 to 3 paks per 20 acres	

Use Restrictions: Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre [1 pak per 5 acres] per application. Do not apply more than 20 lbs. of copper (40 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.

USE INSTRUCTIONS: Apply as a full spray coverage. Apply in 100 gals, of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7 to 10 days later at 10% expansion.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. PESTICIDE STORAGE: 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. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

WATER-SOLUBLE PAKS: Carefully open outer bag. Never open

the water-soluble pouch.

CONTAINER DISPOSAL: 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.

#### WARRANTY-CONDITIONS OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.