

19713-321

8/10/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Luz Chan  
Drexel Chemical Company  
1700 Channel Avenue  
P.O. Box 13327  
Memphis, TN 38113-0327

AUG 10 2010

Subject: Label Amendment  
EPA Reg. No.: 19713-321 / KOP-Hydroxide 50W

Dear Ms. Chan:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

A stamped copy of the label is enclosed for your records. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Tony Kish".

Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division

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



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ACCEPTED

AUG 10 2010

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 19713-321

# KOP-Hydroxide™ 50W

Agricultural Fungicide-Bactericide

<b>ACTIVE INGREDIENT:</b>	
Copper Hydroxide*	77.0%
<b>OTHER INGREDIENTS:</b>	
	23.0%
<b>TOTAL:</b>	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 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	Net Content:
EPA Est. No. 19713-XX-XXX	20 Pounds

FIRST AID
<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious or convulsing person.</li> </ul>
<p><b>IF INHALED:</b></p> <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p><b>IF ON SKIN OR CLOTHING:</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>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.</p>
<p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate use of gastric lavage.</p>

**PRECAUTIONARY STATEMENTS**  
Hazards to Humans and Domestic Animals

**DANGER.** Corrosive. Causes irreversible eye damage. Harmful if swallowed, if absorbed through the skin or if inhaled. Do not get in eyes or clothing. Avoid contact with the skin. 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.

**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.

**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 HAZARDS**

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 waters 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.

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### 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 PHYTOTOXICITY 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 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 REI of 48 hours. For greenhouse uses, do not enter or allow worker entry into treated areas during the REI of 24 hours.

(Continued)

### AGRICULTURAL USE REQUIREMENTS (Cont.)

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 decontaminated supplies and
  - how to operate the eye flush container or eye flush station.

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:

	Aerial	Ground	
		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.

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.

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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 specified amount of this 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**

- 1) 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.
- 2) 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.
- 7) 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 PESTICIDES IN IRRIGATION WATER.

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

**SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate 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.

**Additional requirements for aerial applications:**

- 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.

**Additional requirements for ground boom application:**

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

**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.

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**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 of this Product per Acre
Alfalfa	<i>Cercospora</i> , <i>Leptosphaerulina</i> leaf spots	1 lb.
	<b>USE INSTRUCTIONS:</b> Apply before each harvest if disease threatens. <b>Note:</b> Spray injury may occur with sensitive varieties such as Lahontan.	
<b>Use Restrictions:</b> 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.		
Almonds	Coryneum blight, Blossom brown rot	8 to 12 lbs.
	<b>USE INSTRUCTIONS:</b> 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.
	<b>USE INSTRUCTIONS:</b> Early bloom (popcorn) application – Apply before full bloom. Use higher rates when rainfall is heavy and disease pressure is high. <b>Note:</b> To avoid plant injury, do not use above rate after full bloom.	
	Bacterial blast ( <i>Pseudomonas</i> )	12 to 16 lbs.
	<b>USE INSTRUCTIONS:</b> Apply at dormant to early pink bud. <b>Note:</b> Injury may occur from postbloom sprays, especially on Neplus varieties.	
	Bacterial blast ( <i>Pseudomonas</i> )	1 lb.
<b>USE INSTRUCTIONS:</b> For control in sprinkler irrigated orchards or where disease is severe, apply at 2-week post-bloom intervals or just before sprinkling. <b>Note:</b> Injury may occur from postbloom sprays, especially on Neplus varieties.		
<b>Use Restrictions:</b> 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.		
Apples	Anthracnose, European canker, <i>Pseudomonas</i>	12 to 16 lbs.
	<b>USE INSTRUCTIONS:</b> Apply before Fall rains. Use higher rates under severe disease conditions. <b>Note:</b> Use on yellow varieties may cause discoloration. To avoid, pick before spraying.	
	Fire blight	8 to 12 lbs.
	<b>USE INSTRUCTIONS:</b> Make application between silver tip and green tip. Apply as a full cover spray. <b>Note:</b> Crop injury may occur from late application; discontinue use when green tip reaches one-half inch.	
(Continued)		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Apples (Cont.)	Crown or Collar rot	4 lbs.
	<b>USE INSTRUCTIONS:</b> 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. <b>Note:</b> Do not use if soil pH is below 5.5 since copper toxicity may result.	
<b>Use Restrictions:</b> During the Fall or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per application. Only one application is permitted per season. Between silver-tip and green-tip period, do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre per application. Only one application per season is permitted. 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 16 lbs. of copper (32 lbs. of this product) per acre per year.		
Apricots	Coryneum blight (Shot hole), Blossom brown rot	3 lbs.
	<b>USE INSTRUCTIONS:</b> Apply at popcorn to full bloom. Note: Applications applied after bloom will result in crop injury.	
<b>Use Restrictions:</b> 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.
	<b>USE INSTRUCTIONS:</b> Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.	
<b>Use Restrictions:</b> 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 12.6 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.
	<b>USE INSTRUCTIONS:</b> Apply when bloom buds begin to swell.	
<b>Use Restrictions:</b> 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.		
Bananas	Sigatoka	2 lbs.
	<b>USE INSTRUCTIONS:</b> Apply by air in 3 gals. of water combining 0.5 gal. of a suitable agricultural spray oil. Apply on a 7-day schedule throughout the wet season. Apply at 21-day intervals during dry periods.	
	Black pitting	2.1 lbs.
<b>USE INSTRUCTIONS:</b> Apply in 100 gals. of water directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence.		
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 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 7 days.		
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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Beans (Dry, Green)	Bacterial blight (halo and common), Brown spot	1 to 1.5 lbs.
	USE INSTRUCTIONS: Use the higher rate for more severe disease. For protective sprays, make first application when plants are 6 inches high. Repeat on a 7- to 14-day schedule depending upon local conditions.	
<b>Use Restrictions:</b> Do not apply more than 0.79 lbs. of copper (1.5 lbs. of this product) per acre per application; Do not apply more than 4.74 lbs. of copper (9.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Beets (Green)	Black rot ( <i>Xanthomonas</i> ), Black leaf spot ( <i>Alternaria</i> ), Downy mildew ( <i>Peronospora</i> )	1 to 2 lbs.
	USE INSTRUCTIONS: Apply at 10-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 or when conditions favor disease development. Use higher rates when conditions favor disease.	
<b>Use Restrictions:</b> Do not apply more than 1.31 lbs. of copper (2.6 lbs. of this product) per acre per application. Do not apply more than 7.86 lbs. of copper (15.7 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Blackberries (Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalems, and Thornless evergreens)	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, <i>Pseudomonas</i> blight	4 lbs.
	USE INSTRUCTIONS: Apply as delayed dormant spray after training in the Spring. Make Fall application after harvest. Add 1 qt. of crop oil per acre.	
	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, <i>Pseudomonas</i> blight	2 lbs.
	USE INSTRUCTIONS: Apply when leaf buds begin to open and repeat when flower buds show white. Add 1 quart of crop oil per acre. <b>Note:</b> Crop injury may occur if applied to foliage under certain conditions such as hot or prolonged moist periods. Discontinue application if signs of crop injury appear.	
<b>Use Restrictions:</b> Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per application. Do not apply more than 10 lbs. of copper (20 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Blueberries	Bacterial canker	4.2 lbs.
	USE INSTRUCTIONS: Make first application before Fall rains and a second application four weeks later.	
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
(Continued)		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Greens (Collard, Mustard, Turnip)	Black rot ( <i>Xanthomonas</i> ), Black leaf spot ( <i>Alternaria</i> ), Downy mildew ( <i>Peronospora</i> )	1 lb.
	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 or when conditions favor disease development. Use higher rates when conditions favor disease. <b>Note:</b> Reddening of older leaves may occur on Broccoli and flecking of wrapper leaves may occur on Cabbage.	
<b>Use Restrictions:</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre per application. Do not apply more than 2.65 lbs. of copper (5.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Cacao	Black pod	2 to 4.5 lbs.
	USE INSTRUCTIONS: Begin applications at the start of the rainy season and continue while infection conditions persist. Sprays should be made at 2 to 4.5 pounds as often as 14 to 21 days in high rainfall areas at varying rates depending on disease severity. For drier areas, where 2 to 4 applications are recommended during critical infection periods and at long intervals, use 4.5 lbs. per acre according to disease incidence and planting density.	
<b>Use Restrictions:</b> Do not apply more than 2.25 lbs. of copper (4.5 lbs. of this product) per acre per application. Do not apply more than 15.75 lbs. of copper (31.5 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Cantaloupes, Honeydews, Muskmelons	Downy mildew	2 lbs.
	USE INSTRUCTIONS: Begin application when conditions are favorable for disease development and repeat at 5-day intervals depending on disease severity.	
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Carambola	Anthracnose	4.2 lbs.
	USE INSTRUCTIONS: Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.	
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 10.5 lbs. of copper (21 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Carrots	<i>Alternaria</i> , <i>Cercospora</i> leaf spot	2 lbs.
	USE INSTRUCTIONS: Begin application when disease first threatens and repeat at 7-day intervals depending on disease.	
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. Do not apply more than 5 lbs. of copper (10 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
(Continued)		

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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Celery, Celeriac	<i>Cercospora</i> early blight, <i>Septoria</i> late blight, Bacterial blight	2 lbs.
	USE INSTRUCTIONS: Begin application as plants are first established in the field, repeating at 7-day intervals depending on disease severity and environmental conditions.	
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. Do not apply more than 5.3 lbs. of copper (10.6 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Cherries	Dead bud ( <i>Pseudomonas syringae</i> ), <i>Coryneum</i> blight	8 to 12 lbs.
	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 dilute spray.	
	Brown rot, Blossom blight.	3 lbs.
	USE INSTRUCTIONS: Apply a full cover spray at popcorn stage and a second application at full bloom. Note: To avoid injury, do not use after full bloom.	
<b>Use Restrictions:</b> During the dormant or late dormant period up to pink bud, 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.		
Chives	Downy mildew	1 lb.
	USE INSTRUCTIONS: Begin applications when plants are established in the field. Repeat applications every 7 days as dictated by disease conditions.	
<b>Use Restrictions:</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre per application. Do not apply more than 2.65 lbs. of copper (5.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Coffee	Coffee berry disease ( <i>Colletotrichum coffeanum</i> )	4.2 lbs.
	USE INSTRUCTIONS: Apply first spray after flowering and before onset of long rains and then at 14-day intervals until picking.	
	Bacterial blight ( <i>Pseudomonas syringae</i> )	4.2 lbs.
	USE INSTRUCTIONS: Begin spray program before the onset of the long rains and continue throughout the rainy season at 14-day intervals. The critical time of spraying to control this disease is just before, during and after flowering, especially when coinciding with wet weather.	

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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Coffee	Leaf rust ( <i>Hemileia vastatrix</i> )	2 to 4 lbs.
	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 ( <i>Cercospora coffeicola</i> ), Pink disease ( <i>Corticium salmonicolor</i> )	2 lbs.
	USE INSTRUCTIONS: Use concentrate or dilute spray. Begin treatment at the start of wet season and continue at monthly intervals for three applications.	
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Cranberries	Fruit rot	4.2 lbs.
	USE INSTRUCTIONS: Make first application in late bloom. One or two additional applications at 7-day intervals may be required, depending upon disease severity.	
	Rose bloom	4.2 lbs.
	USE INSTRUCTIONS: Apply three 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.	
Cucumbers	Tip blight ( <i>Monilinia</i> ), Stem and Leaf blight, Red leaf spot	4.2 lbs.
	USE INSTRUCTIONS: Apply delayed dormant spray in the Spring. Repeat at 7-day intervals through prebloom.	
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Cucumbers	Angular leaf spot, Downy mildew	1.5 to 2 lbs.
	USE INSTRUCTIONS: Apply when plants begin to vine.	
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Currants, Gooseberries	Leaf spot, Anthracnose	8 lbs.
	USE INSTRUCTIONS: Make initial application after first leaves have expanded. Continue on a 10-day schedule during wet conditions in the Spring. Make an additional application after harvest.	
<b>Use Restrictions:</b> Do not apply more than 4 lbs. of copper (8 lbs. of this product) per acre per application. Do not apply more than 16 lbs. of copper (32 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		

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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Dill	Phoma leaf spot, <i>Rhizoctonia</i> , Foliage blight	1.5 lbs.
	USE INSTRUCTIONS: Begin applications when plants are first established in the field and repeat at 7-day intervals depending upon disease severity and environmental conditions.	
Use Restrictions: Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 3.95 lbs. of copper (7.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Eggplant	Alternaria blight, Anthracnose, Phomopsis	1.5 lbs.
	USE INSTRUCTIONS: Begin application prior to development of disease symptoms. Repeat spray at 7-day intervals depending on disease severity.	
Use Restrictions: Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 7.9 lbs. of copper (15.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Filberts (OR & WA only)	Bacterial blight	12 lbs.
	USE INSTRUCTIONS: Apply as a postharvest spray in late August or early September. In seasons of heavy rainfall apply a second spray when three-fourths of the leaves have dropped. Add 1 pt. of superior-type oil per 100 gals. of water.	
	Eastern filbert blight	12 lbs.
	USE INSTRUCTIONS: Apply as a dilute spray in adequate water for thorough coverage. Make initial application after harvest in October before heavy Winter rains begin. The next application should be made in late February to early March followed by another application one month later. If desired, add 1 pint of a sticking agent or superior-type oil per 100 gallons of water.	
Use Restrictions: Do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre per application. Do not apply more than 24 lbs. of copper (48 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days. Permitted in Oregon and Washington only.		
Ginseng	Alternaria leaf and stem blight	2.1 lbs.
	USE INSTRUCTIONS: Use as a tank mix with 2 lbs. of Rovral 50W in 100 gallons of water. Begin applications as soon as plants emerge in Spring. Applications should be repeated every 7 days until plants become dormant in Fall. If scheduled application is to be made before a rain shower, apply fungicides at least 8 hours before the rain, giving the fungicides time to dry on the plants. Use of a spreader-sticker or sticker is advised. Note: Alternaria leaf and stem blight are most severe in humid conditions such as those found in the dense canopies of 2 to 4 years old Ginseng. It is very important that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.	
Use Restrictions: Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Grapes	Black rot, Powdery mildew, Downy mildew, <i>Phomopsis</i> , Leaf blight	2 lbs.
	USE INSTRUCTIONS: Begin application at late dormant up to bud break with subsequent applications throughout the season, depending upon disease severity. Note: Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagra and Rosette. Either test for sensitivity or add 1 to 3 lbs. of hydrated lime per pound of this product.	
Use Restrictions: Do not apply more than 3 lbs. of copper (6 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 3 days.		
Guava	Anthracnose, Red algae	2.5 lbs.
	USE INSTRUCTIONS: 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 1.23 lbs. of copper (2.5 lbs. of this product) per acre per application. Do not apply more than 4.92 lbs. of copper (9.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Hops	Downy mildew	1 lb.
	USE INSTRUCTIONS: Make crown treatment after pruning, but before training. After training, additional treatments are needed at 10-day intervals. Note: Discontinue use 2 weeks before harvest.	
Use Restrictions: Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre per application. Do not apply more than 2.65 lbs. of copper (5.3 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Kiwi	<i>Pseudomonas syringae</i> , <i>Erwinia herbicola</i> , <i>Pseudomonas fluorescens</i>	4.2 lbs.
	USE INSTRUCTIONS: Apply in 200 gallons of water per acre. Make applications on a monthly basis. A maximum of 3 applications may be made.	
Use Restrictions: Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 6.3 lbs. of copper (12.6 lbs. of this product) per acre per year. Minimum retreatment interval is 30 days.		
Lettuce, Endive, Escarole	Downy mildew	1 to 2 lbs.
	USE INSTRUCTIONS: Begin treatment when disease first appears and repeat every 5 days to suppress disease. Note: Flecking and/or yellowing of leaves will occur under certain environmental conditions such as extended periods of moist weather, acid rains, or other conditions favoring reduced pH on leaf surfaces. Injury may be severe enough to reduce crop value. Increasing the volume of spray water will frequently decrease phytotoxicity potential.	
Use Restrictions: Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. Do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
(Continued)		



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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Litchi	Anthracoese	2.5 lbs.
	USE INSTRUCTIONS: 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 1.23 lbs. of copper (2.5 lbs. of this product) per acre per application. Do not apply more than 4.92 lbs. of copper (9.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Macadamia nuts	Anthracoese	4.7 lbs.
	USE INSTRUCTIONS: Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.	
	Phytophthora blight ( <i>P. capsici</i> ), Raceme blight ( <i>Botrytis cinerea</i> )	4.5 to 4.7 lbs.
	USE INSTRUCTIONS: Apply during raceme development and bloom periods. Apply in sufficient water for thorough coverage.	
Use Restrictions: Do not apply more than 2.36 lbs. of copper (4.7 lbs. of this product) per acre per application. Do not apply more than 9.44 lbs. of copper (18.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Mamey sapote	Anthracoese, Algal leaf spot	4.2 lbs.
	USE INSTRUCTIONS: Apply when conditions favor disease development. Repeat on a 14-day schedule as disease severity and environmental conditions dictate.	
Use Restrictions: Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Mangoes	Anthracoese	6.4 lbs.
	USE INSTRUCTIONS: Apply after fruit set until harvest.	
Use Restrictions: Do not apply more than 3.2 lbs. of copper (6.4 lbs. of this product) per acre per application. Do not apply more than 48 lbs. of copper (96 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Olives	Peacock spot, Olive knot	8 to 12 lbs.
	USE INSTRUCTIONS: Make first application before Winter rain fall. A second application in early Spring should be made if disease is severe.	
	USE INSTRUCTIONS: Apply during raceme development and bloom periods. Apply in sufficient water for thorough coverage.	
Use Restrictions: Do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre per application. Do not apply more than 18 lbs. of copper (36 lbs. of this product) per acre per year. Minimum retreatment interval is 30 days.		
Onions	Purple blotch, Downy mildew	2 lbs.
	USE INSTRUCTIONS: Begin when plants are 4 to 6 inches high and repeat at 7-day intervals depending on disease severity. Can cause phytotoxicity on leaves.	
	Bacterial blight	1 to 1.5 lbs.
	USE INSTRUCTIONS: Begin when plants are 4 to 6 inches high and repeat at 7-day intervals depending on disease severity. Can cause phytotoxicity on leaves.	
Use Restrictions: Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. Do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
(Continued)		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Papaya	Anthracoese	4 to 5.2 lbs.
	USE INSTRUCTIONS: Apply before disease appears. The addition of any approved spreader is desirable.	
Use Restrictions: Do not apply more than 2.63 lbs. of copper (5.2 lbs. of this product) per acre per application. Do not apply more than 21.2 lbs. of copper (42.4 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Parsley	Bacterial blight ( <i>Pseudomonas</i> sp.)	2 lbs.
	USE INSTRUCTIONS: Begin applications when plants are first established in the field and repeat at 10-day intervals depending upon disease severity and environmental conditions.	
Use Restrictions: Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Passion fruit	Anthracoese	4.7 lbs.
	USE INSTRUCTIONS: 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 2.36 lbs. of copper (4.7 lbs. of this product) per acre per application. Do not apply more than 9.44 lbs. of copper (18.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Peaches, Nectarines	Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast ( <i>Pseudomonas</i> ), Bacterial spot ( <i>Xanthomonas</i> )	8 to 16 lbs.
	USE INSTRUCTIONS: Apply at leaf fall. Use the highest rate when rainfall is very heavy and disease pressure is high. May be used with agricultural spray oil.	
	Brown rot blossom blight	8 to 12 lbs.
	USE INSTRUCTIONS: Apply as full cover spray at pink bud. Application at this time affords some control of Leaf curl and Coryneum blight.	
Bacterial spot		1 lb.
USE INSTRUCTIONS: Make post-bloom application at first and second cover sprays.		
Bacterial spot		8 lbs.
USE INSTRUCTIONS: Apply as a dormant spray.		
Use Restrictions: During the dormant or late dormant period up to pink bud, 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. Note: Do not spray later than three weeks prior to harvest. Use only specified rates. Spotting of leaves and defoliation may occur from use in cover sprays.		
(Continued)		

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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Peanuts	Cercospora leaf spot	1.5 lbs.
	<p>USE INSTRUCTIONS: Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat at 7-day intervals.</p> <p><b>Note:</b> The use of 1 to 2 quarts of Suffa® per acre may be added.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 4.74 lbs. of copper (9.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>		
Pears	Fire blight	1 lb.
	<p>USE INSTRUCTIONS: Apply at 5-day intervals throughout the bloom period.</p>	
	Blossom blast ( <i>Pseudomonas blight</i> )	12 to 16 lbs.
	<p>USE INSTRUCTIONS: Apply before Fall rains and again during dormancy before Spring growth starts. Use the higher rates when disease pressure is high or when conditions favor the development of such.</p> <p><b>Note:</b> May cause Fruit russet on copper sensitive varieties.</p>	
<p><b>Use Restrictions:</b> During the Fall or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per application. Only one application is permitted per season. Between silver-tip and green-tip period, do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre per application. Only one application per season is permitted. During the bloom or growing period, do not apply more than 1.5 lb. of copper (3 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 16 lbs. of copper (32 lbs. of this product) per acre per year.</p>		
Peas	Powdery mildew	1.5 lbs.
	<p>USE INSTRUCTIONS: Begin application when disease symptoms first appear and repeat at weekly intervals.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 3.95 lbs. of copper (7.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>		
Pecans	Shuck and Kernel rot ( <i>Phytophthora cactorum</i> ), Zonate leaf spot ( <i>Cristulariella pyramidalis</i> )	2 to 4 lbs.
	<p>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.</p>	
	Mosses, Alga, Lichen	4.2 lbs.
	<p>USE INSTRUCTIONS: Mix with spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.</p>		
(Continued)		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Pecans (FL and TX)	Ball Moss	4.2 lbs.
	<p>USE INSTRUCTIONS: Apply 4.2 pounds per 100 gallons of water, in the Spring, when Ball moss is actively growing, using 1.5 gallons of spray per foot of tree height. Make sure to wet Ball moss tufts thoroughly. A second application may be required after 12 months.</p> <p><b>Note:</b> This product may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonry surfaces. Do not spray on cars, houses, lawn furniture, etc.</p>	
	Shuck and Kernel rot ( <i>Phytophthora cactorum</i> ), Zonate leaf spot ( <i>Cristulariella pyramidalis</i> )	2 to 4 lbs.
	<p>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 interval if frequent rainfall occurs.</p>	
	Mosses, Alga, Lichen	4.2 lbs.
	<p>USE INSTRUCTIONS: Mix with spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.</p>		
Peppers	Bacterial spot	1.5 lbs.
	<p>USE INSTRUCTIONS: Begin applications when conditions first favor disease development and repeat at 3-day intervals depending on disease severity.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 0.79 lbs. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 11.85 lbs. of copper (23.7 lbs. of this product) per acre per year. Minimum retreatment interval is 3 days.</p>		
Pistachios	Botrytis blight ( <i>Botryosphaeria</i> ), Panicle and Shoot blight, Septoria leaf blight, Late blight ( <i>Alternaria alternata</i> )	4 to 4.2 lbs.
	<p>USE INSTRUCTIONS: Make initial application at bud swell and repeat on a 14-day schedule as dictated by disease conditions. If disease conditions are severe, use the high rate.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.</p>		
Plums, Prunes	Coryneum blight (shot hole)	8 to 16 lbs.
	<p>USE INSTRUCTIONS: Apply as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high.</p>	
(Continued)		

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(Cont.)		
Crop	Disease	Rate of this Product per Acre
Plums, Prunes (Cont.)	Brown rot, Blossom blight	See "Use Instructions"
	USE INSTRUCTIONS: Apply full cover application at pink stage at the rate of 8 to 12 lbs. per acre per application. Use the high rate when disease pressure is heavy or conditions favor the development of such. Application can also be made at the red or early white stage at the rate of 3 lbs. per acre per application.	
<b>Use Restrictions:</b> During the dormant or late dormant period up to pink bud, 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.		
Potatoes	Early blight, Late blight	1 to 4 lbs.
	USE INSTRUCTIONS: Apply at 1 to 1.5 lbs. at 5- to 10-day intervals starting when plants are 6 inches high until 2 weeks before harvest in locations where disease is light. Use 3 to 4 lbs. per acre where disease is more severe. Under conditions of severe disease, control with this product will be improved by tank mixing with other compatible fungicides registered for use on Potatoes. Read and follow all label instructions of tank mix partners.	
<b>Use Restrictions:</b> Do not apply more than 2.5 lbs. of copper (5 lbs. of this product) per acre per application. Do not apply more than 25 lbs. of copper (50 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Pumpkin, Squash	Powdery mildew	1.5 to 2.1 lbs.
	USE INSTRUCTIONS: Begin application when plants are 3 weeks old or when disease symptoms first appear and repeat at 5-day intervals to maintain control. Use the higher rates if disease is heavy or conditions favor such.	
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Quince	Fire blight	1 lb.
	USE INSTRUCTIONS: Apply at 5-day intervals throughout bloom period.	
<b>Use Restrictions:</b> Do not apply more than 0.5 lb. of copper (1 lb. of this product) per acre 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.		
Raspberries	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	4 lbs.
	USE INSTRUCTIONS: Apply as delayed dormant spray after training in the Spring. Make Fall application after harvest. Add 1 qt. of crop oil per acre.	
<b>(Continued)</b>		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Raspberries (Cont.)	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust	2 lbs.
	USE INSTRUCTIONS: Apply when leaf buds begin to open and repeat when flower buds show white. Add one quart of crop oil per acre. <b>Note:</b> Crop injury may occur if applied to foliage under certain conditions such as hot or prolonged moist periods. Discontinue application if signs of crop injury appear.	
<b>Use Restrictions:</b> Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per application. Do not apply more than 10 lbs. of copper (20 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Spinach	Anthracnose, Blue mold, Cercospora leaf spot, White rust	1.5 lbs.
	USE INSTRUCTIONS: Begin applications when disease first appears or conditions favor disease development. Repeat at 7-day intervals. <b>Note:</b> Flecking may occur on Spinach leaves.	
<b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 3.95 lbs. of copper (7.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Strawberries	Leaf spot, Leaf blight	See "Use Instructions"
	USE INSTRUCTIONS: Begin application when plants are established and continue on a weekly schedule throughout the season. Apply in at least 20 gallon of water at the rate of 2 lbs. per acre. For severe disease infection, use 3 lbs. per acre. <b>Note:</b> Discontinue application if signs of crop injury appear.	
<b>Use Restrictions:</b> 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.		
Sugar apple (Annona)	Anthracnose	6.3 lbs.
	USE INSTRUCTIONS: Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.	
<b>Use Restrictions:</b> 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 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Sugar beets, Table beets	Cercospora leaf spot	2 to 2.6 lbs.
	USE INSTRUCTIONS: Begin application when conditions first favor disease development and repeat at 10-day intervals. Use the higher rate when disease is severe. Addition of Surf-Ac® 820 or a suitable agricultural oil is recommended.	
<b>Use Restrictions:</b> Do not apply more than 1.31 lbs. of copper (2.6 lbs. of this product) per acre per application. Do not apply more than 7.86 lbs. of copper (15.7 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
<b>(Continued)</b>		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Tomatoes	Early blight	See "Use Instructions"
	USE INSTRUCTIONS: When disease threatens, apply 1 lb. per acre for tomatoes (processing) at minimum 3 day intervals. For tomatoes (fresh market), use 2 to 3 lbs. per acre.	
	Bacterial speck	See "Use Instructions"
	USE INSTRUCTIONS: Apply 1 lb. per acre for tomatoes (processing) beginning when disease threatens. For tomatoes (fresh market), use 2 lbs. per acre. Use more frequent applications at minimum 3 day intervals when disease pressure is high.	
	Bacterial spot, Anthracnose, Gray leaf mold, Gray leaf spot, Septoria leaf spot, Late blight	See "Use Instructions"
USE INSTRUCTIONS: When disease threatens, apply 1 lb. per acre for tomatoes (processing) at minimum 3 day intervals. For tomatoes (fresh market), use 2 to 3.2 lbs. per acre.		
<b>Use Restrictions: For Tomatoes (Processing):</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre per application. Do not apply more than 17.4 lbs. of copper (34.8 lbs. of this product) per acre per year.		
<b>For Tomatoes (Fresh Market):</b> Do not apply more than 1.6 lbs. of copper (3.2 lbs. of this product) per acre per application. Do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per year. Minimum retreatment interval is 3 days.		
Walnuts	Walnut blight	8 lbs.
	USE INSTRUCTIONS: Apply first application spray at early prebloom prior to when catkins are partially expanded. Make additional applications during bloom and early nutlet stage when free moisture occurs. Thorough coverage of catkins, leaves and nutlets is essential for effective control. When applied as a dilute spray, 1 pint of Summer oil emulsion may be added per 100 gallons of spray. <b>Note:</b> Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present.	
<b>Use Restrictions:</b> Do not apply more than 4 lbs. of copper (8 lbs. of this product) per acre per application. Do not apply more than 32 lbs. of copper (64 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Watercress	Cercospora leaf spot	1 lb.
	USE INSTRUCTIONS: Begin applications when plants are 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 of spray solution per acre.	
<b>Use Restrictions:</b> Do not apply more than 0.53 lbs. of copper (1 lb. of this product) per acre per application. Do not apply more than 2.12 lbs. of copper (4.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
(Continued)		

(Cont.)		
Crop	Disease	Rate of this Product per Acre
Watermelon	Anthracnose, Bacterial fruit blotch (suppression), Downy mildew	1.5 to 2 lbs.
	USE INSTRUCTIONS: Apply as soon as plants become established in the field and repeat at 5-day intervals as needed, depending upon disease severity. Use higher rates when conditions favor disease.	
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Wheat, Barley, Oats	Septoria leaf blotch, Helminthosporium spot blotch	1 lb.
	USE INSTRUCTIONS: Make first application at early heading and follow with a second spray 10 days later. Use the higher rates when conditions favor disease.	
<b>Use Restrictions:</b> Do not apply more than 0.53 lbs. of copper (1 lb. of this product) per acre per application. Do not apply more than 1.06 lbs. of copper (2.1 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
<b>CITRUS (Grapefruit, Kumquat, Lemon, Lime, Orange, Pummelo, Tangelo, Tangerine)</b>		
Disease	Rate of this Product per Acre	
Melanose, Scab, Algal spot	4 to 6.3 lbs.	
	USE INSTRUCTIONS: Apply as prebloom and post-bloom sprays.	
Greasy spot, Pink pitting	2 to 6 lbs.	
	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.	
Alternaria	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 brown rot, Septoria spot	4 to 6.3 lbs.	
	USE INSTRUCTIONS: Begin application in Fall. 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. <b>Note:</b> In CA, in areas subject to copper injury, add 0.33 to 1 lb. of high quality lime per lb. of this product.	
Citrus canker (suppression only)	6.3 lbs.	
	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.	
(Continued)		

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(Cont.)	
Disease	Rate per Acre
Phytophthora foot rot	1 lb.
	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 existing infections.
<p><b>Use Restrictions:</b> 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 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p> <p><b>Note:</b> Adding foliar nutritionals 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.</p>	

**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. Apply this product at 28-day intervals depending on disease severity.

**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 12.6 lbs. 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 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.

**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 label. 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 specified rates to the plant in question, i.e. foliage, 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. One level tablespoon of this product per 1,000 square feet is equal to 0.259 lb. of copper (0.5 lb. of this product) per acre. This product should be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat as specified.

GREENHOUSE AND SHADEHOUSE CROPS		
Crop	Disease	Rate (TBSP/1,000 SQ. FT.)
Eggplant	Alternaria blight, Anthracnose, Phomopsis	2
	USE INSTRUCTIONS: Begin applications prior to development of disease symptoms. Repeat sprays at 7- to 10-day intervals depending on disease pressure.	
<p><b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper per acre (1.5 lbs. of this product per acre or 3 tsp. of this product per 1000 sq. ft.) per application. Do not apply more than 7.9 lbs. of copper per acre (15.8 lbs. of this product per acre or 31.6 tsp. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 7 days.</p>		
Pepper	Bacterial spot	2 to 3
	USE INSTRUCTIONS: Begin applications when conditions first favor disease development and repeat at 3-day intervals depending on disease severity. Use higher rate for severe disease.	
<p><b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper per acre (1.5 lbs. of this product per acre or 3 tsp. of this product per 1000 sq. ft.) per application. Do not apply more than 11.85 lbs. of copper per acre (23.7 lbs. of this product per acre or 47.4 tsp. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 3 days.</p>		
(Continued)		

(Cont.)		
Crop	Disease	Rate (TBSP/1,000 SQ. FT.)
Cucumber	Angular leaf spot, Downy mildew	1.5 to 2
	USE INSTRUCTIONS: Apply at 5-day intervals when plants begin to vine.	
<p><b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper per acre (2.1 lbs. of this product per acre or 4.2 tsp. of this product per 1000 sq. ft.) per application. Do not apply more than 5.25 lbs. of copper per acre (10.5 lbs. of this product per acre or 21 tsp. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 5 days.</p>		
Tomato	Early blight, Late blight	See "Use Instructions"
	USE INSTRUCTIONS: Begin when disease first threatens and repeat at 3-day intervals depending on disease severity. Apply 2 tsp. per 1000 sq. ft. for tomato (processing). For tomato (fresh market), use 2 to 3 tsp. per 1000 sq. ft.	
	Bacterial speck	See "Use Instructions"
	USE INSTRUCTIONS: Begin applications when disease first threatens and repeat at 3-day intervals depending on disease severity. Apply 2 tsp. per 1000 sq. ft. for tomato (processing) and tomato (fresh market).	
	Bacterial spot, Anthracnose, Gray leaf mold, Septoria leaf spot	See "Use Instructions"
	USE INSTRUCTIONS: Begin when disease first threatens and repeat at 3-day intervals depending on disease severity. Apply 2 tsp. per 1000 sq. ft. for tomato (processing). For tomato (fresh market), use 2 to 4 tsp. per 1000 sq. ft.	
<p><b>Use Restrictions: For Tomatoes (Processing):</b> Do not apply more than 0.53 lb. of copper per acre (1 lb. of this product per acre or 2 tsp. of this product per 1000 sq. ft.) per application. Do not apply more than 17.4 lbs. of copper per acre (34.8 lbs. of this product per acre or 69.6 tsp. of this product per 1000 sq. ft.) per year.</p> <p><b>For Tomatoes (Fresh Market):</b> Do not apply more than 1.6 lbs. of copper per acre (3.2 lbs. of this product per acre or 6.4 tsp. of this product per 1000 sq. ft.) per application. Do not apply more than 8 lbs. of copper per acre (16 lbs. of this product per acre or 32 tsp. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 3 days.</p>		

**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 specified 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 as specified. 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 alone or in combination with other fungicides such as dithiocarbamates.

**USE RESTRICTIONS:**

**On Easter Lilies:** Do not apply more than 2.5 lbs. of copper per acre (5 lbs. of this product per acre or 1.8 ozs. per 1000 sq. ft.) per application. Do not apply more than 75 lbs. of copper per acre (150 lbs. of this product per acre or 55 ozs. per 1000 sq. ft.) per year. Minimum

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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 per acre (4 lbs. of this product per acre or 1.4 ozs. per 1000 sq. ft.) per application. Do not apply more than 20 lbs. of copper per acre (40 lbs. of this product per acre or 14.6 ozs. per 1000 sq. ft.) per year. Minimum retreatment interval is 7 days.

Ornamentals	Disease
Althea (Rose of Sharon)	Bacterial leaf spot
Aralia	Alternaria, Bacterial fruit blotch (suppression), 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 ( <i>Xanthomonas</i> sp., <i>Erwinia</i> sp., <i>Pseudomonas</i> sp.)
Bougainvillea	Anthracoise, Bacterial leaf spot
Bulbs, (Tulip, Gladiolus)	Anthracoise, Botrytis blight
Camellia	Anthracoise, Bacterial leaf spot
Camphor tree	<i>Pseudomonas</i> leaf spot
Canna	<i>Pseudomonas</i> leaf spot
Carnation*	Alternaria blight, Botrytis blight, <i>Pseudomonas</i> leaf spot
Chinese tallow tree	Bacterial leaf spot ( <i>Xanthomonas</i> sp., <i>Pseudomonas</i> sp.)
Chrysanthemum*	Botrytis blight, Septoria leaf spot
Cotoneaster	Botrytis blight
Dahlia	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Date palm	Pestalotia leaf spot
Dianthus	Bacterial spot, Bacterial soft rot
Dogwood	Anthracoise
Dusty miller	Bacterial leaf spot ( <i>Pseudomonas cichorii</i> )
Easter lily**	Botrytis blight
Echinacea	Bacterial leaf spot ( <i>Pseudomonas cichorii</i> )
"Elm ""Drake""	<i>Xanthomonas</i> leaf spot
Euonymus	Anthracoise, Botrytis blight
European fan palm	Pestalotia leaf spot
Gardenia	Alternaria 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
Golden rain tree	Bacterial leaf spot
Hibiscus	Bacterial leaf spot
Holly fern	<i>Pseudomonas</i> leaf spot
Impatiens	Bacterial leaf spot
Indian hawthorn***	Anthracoise, Entomosporium leaf spot
Ivy (English, Algerian)*	<i>Xanthomonas</i> leaf spot
Ixora	<i>Xanthomonas</i> leaf spot
Juniper (Easter red cedar)	Anthracoise
Lantana	Bacterial leaf spot
Lilac	Cercospora leaf spot
Loblolly bay	Anthracoise
Loquat	<i>Entomosporium maculata</i> , <i>Colletotrichum</i> sp.

(Continued)

Magnolia (Southern)	Algal leaf spot, Anthracnose, Bacterial leaf spot
Magnolia (Sweet bay)	Anthracoise
Magnolia	Bacterial leaf spot
Mandevillas	Anthracoise
Marigold	Alternaria leaf spot, Botrytis leaf and flower rot, Cercospora leaf spot
Mulberry, weeping	Bacterial leaf spot
Oak, laurel	Algal leaf spot ( <i>Cephaleuros virescens</i> )
Oleander	Bacterial leaf spot, Fungal leaf spot
Pachysandra	Volutella leaf blight
Pansy	Downy mildew
Pear (Flowering)	Fireblight, Leaf spot
Pentas (Egyptian star)	Bacterial leaf spot ( <i>Xanthomonas</i> sp.)
Peony	Botrytis blight
Periwinkle	Phomopsis stem blight
Philodendron	Bacterial leaf spot
Phlox	Alternaria leaf spot
Photinia (Red top, Red leaf)	Anthracoise, Entomosporium
Pistachio	Anthracoise
Plantain lily	Bacterial leaf spot
Powder puff 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	<i>Xanthomonas</i> leaf spot
Viburnum	Anthracoise
Washingtonia palm	Pestalotia leaf spot
Weeping willow	Anthracoise
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 selling season.

**Note:** Phytotoxicity may depend on varietal differences. If unfamiliar with the use of this product, apply the specified rate to a few plants and observe after 7 to 10 days for symptoms of phytotoxicity.

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

\*\*\* For Indian hawthorn, use 2 to 4 lbs. per 100 gallons.

**ORNAMENTAL TREES**

Crop	Disease	Rate per Acre
Douglas fir	Rhabdocline needlecast	2 lbs.
	USE INSTRUCTIONS: Begin applications at bud break and repeat at 3- to 4-week intervals. Apply in a tank mix with another registered pesticide if moderate to severe disease pressure is present.	
<b>Use Restrictions:</b> 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 days.		
(Continued)		

(Cont.)		
ORNAMENTAL TREES		
Live oak	Ball moss	4 lbs.
	<p><b>USE INSTRUCTIONS:</b> Apply in 100 gallons 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.</p> <p><b>Note:</b> This product may be injurious to ornamentals grown under Live oaks. This product may be reactive on metal and masonry surfaces. Do not spray on cars, houses, lawn furnitures, etc.</p>	
<p><b>Use Restrictions:</b> 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 days.</p>		
Sycamore	Anthraxnose	2 to 3 lbs.
	<p><b>USE INSTRUCTIONS:</b> 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.</p>	
<p><b>Use Restrictions:</b> 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 days.</p>		
Crop	Disease	Rate per 1,000 sq. ft.
Turfgrass	Algae	See USE INSTRUCTIONS
	<p><b>USE INSTRUCTIONS:</b> Apply 2.2 ozs. per 1,000 square feet in 5 gallons of water. May be used as a maintenance spray. May be used alone or in combination with fungicides. Observe all precautions and limitations on the label of each product used in tank mixes.</p> <p><b>Note:</b> Phytotoxicity may occur depending on varietal differences. Apply the specified rate to a small area and observe 7 to 10 days for phytotoxicity. If phytotoxicity occurs, discontinue use. Do not apply in spray solutions with a pH of less than 6.5.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 3 lbs. of copper per acre (2.2 ozs. of this product per 1000 sq. ft.) per application. Do not apply more than 21 lbs. of copper per acre (15.4 ozs. of this product per 1000 sq. ft.) per year. Minimum retreatment interval is 10 days.</p>		

## 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:**

**Nonrefillable Container (flexible-bag-all weights):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-greater than fifty lbs.):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

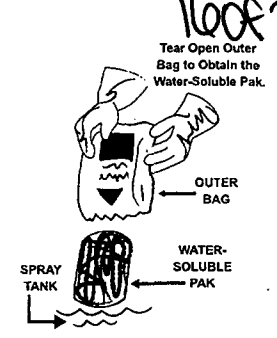
**Refillable Container:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## WARRANTY-CONDITIONS OF SALE

OUR DIRECTIONS 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 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.

1100229



# KOP-Hydroxide™ 50W

Agricultural Fungicide-Bactericide

## Water-Soluble Packaging

**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 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 Net Content:  
EPA Est. No. 19713-XX-XXX 1 Pound

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious or convulsing person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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.	
<b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate use of gastric lavage.	

### PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

**DANGER.** Corrosive. Causes irreversible eye damage. Harmful if swallowed, if absorbed through the skin or if inhaled. Do not get in eyes or clothing. Avoid contact with the skin. 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.

**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.

**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 HAZARDS

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 waters 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 marks. Do not contaminate water when disposing of equipment washwaters or rinsate.



**USE INFORMATION**

Each water soluble pak contains 1 pound [optional: 2.5 lbs., 5 lbs., 10 lbs., 15 lbs., 20 lbs.] of this product. Do not sell individual water soluble paks. 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 PHYTOTOXICITY 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 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 REI

(Continued)

**AGRICULTURAL USE REQUIREMENTS (Cont.)**

of 48 hours. For greenhouse uses, do not enter or allow worker entry into treated areas during the REI of 24 hours.

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 decontaminated supplies and
  - how to operate the eye flush container or eye flush station.

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.

**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:

	Aerial	Ground	
		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.

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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 specified amount of this 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**

- 1) 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.
- 2) 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.
- 7) 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 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 PESTICIDES IN IRRIGATION WATER.

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

**SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate 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.

**Additional requirements for aerial applications:**

- 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.

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placement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

**Additional requirements for ground boom application:**

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

**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 of this Product per Acre	Number of Water-Soluble Paks
Alfalfa	Cercospora, <i>Leptosphaerulina</i> leaf spots	1 lb.	1 pak per acre
	USE INSTRUCTIONS: Apply before each harvest if disease threatens. <b>Note:</b> Spray injury may occur with sensitive varieties such as Lahontan.		
<b>Use Restrictions:</b> Do not apply more than 0.53 lbs. of copper (1 lb. of this product) per acre [1 pak 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.			
Almonds	Coryneum blight, Blossom brown rot	8 to 12 lbs.	8 to 12 paks per acre
	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.	3 paks per acre
	USE INSTRUCTIONS: Early bloom (popcorn) application – Apply before full bloom. Use higher rates when rainfall is heavy and disease pressure is high. <b>Note:</b> To avoid plant injury, do not use above rate after full bloom.		
	Bacterial blast ( <i>Pseudomonas</i> )	12 to 16 lbs.	12 to 16 paks per acre
Atemoya	USE INSTRUCTIONS: Apply at dormant to early pink bud. <b>Note:</b> Injury may occur from postbloom sprays, especially on Neplus varieties.		
	Bacterial blast ( <i>Pseudomonas</i> )	1 lb.	1 pak per acre
	USE INSTRUCTIONS: For control in sprinkler irrigated orchards or where disease is severe, apply at 2-week post-bloom intervals or just before sprinkling. <b>Note:</b> Injury may occur from postbloom sprays, especially on Neplus varieties.		
	<b>Use Restrictions:</b> During the dormant or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [16 paks 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 [3 paks 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.		

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Apples	Anthracnose, European canker, <i>Pseudomonas</i>	12 to 16 lbs.	12 to 16 paks per acre
	USE INSTRUCTIONS: Apply before Fall rains. Use higher rates under severe disease conditions. <b>Note:</b> Use on yellow varieties may cause discoloration. To avoid, pick before spraying.		
	Fire blight	8 to 12 lbs.	8 to 12 paks per acre
	USE INSTRUCTIONS: Make application between silver tip and green tip. Apply as a full cover spray. <b>Note:</b> Crop injury may occur from late application; discontinue use when green tip reaches one-half inch.		
Apricots	Crown or Collar rot	4 lbs.	4 paks per acre
	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. <b>Note:</b> Do not use if soil pH is below 5.5 since copper toxicity may result.		
	<b>Use Restrictions:</b> During the Fall or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [16 paks per acre] per application. Only one application is permitted per season. Between silver-tip and green tip period, do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre [12 paks per acre] per application. During the bloom or growing period, do not apply more than 1.5 lb. of copper (3 lbs. of this product) per acre [3 paks per acre] per application. Minimum retreatment interval is 5 days. Do not apply more than 16 lbs. of copper (32 lbs. of this product) per acre per year.		
	Coryneum blight (Shot hole), Blossom brown rot	3 lbs.	3 paks per acre
Avocados	USE INSTRUCTIONS: Apply at popcorn to full bloom. <b>Note:</b> Applications applied after bloom will result in crop injury.		
	<b>Use Restrictions:</b> 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 acre] per application. Minimum retreatment interval is 5 days.		
Avocados	Anthracnose, Blotch, Scab	6.3 lbs.	6 paks per 0.95 acre
	USE INSTRUCTIONS: Apply when bloom buds begin to swell.		
<b>Use Restrictions:</b> Do not apply more than 3.15 lbs. of copper (6.3 lbs. of this product) per acre [6 paks per 0.95 acre] per application. Do not apply more than 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Bananas	Sigatoka	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Apply by air in 3 gals. of water combining 0.5 gal. of a suitable agricultural spray oil. Apply on a 7-day schedule throughout the wet season. Apply at 21-day intervals during dry periods.		
	Black pitting	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Apply in 100 gals. of water directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence.		
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre [2 paks per 0.95 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 7 days.			
Beans (Dry, Green)	Bacterial blight (halo and common), Brown spot	1 to 1.5 lbs.	1 pak per 0.66 to 1 acre
	USE INSTRUCTIONS: Use the higher rate for more severe disease. For protective sprays, make first application when plants are 6 inches high. Repeat on a 7- to 14-day schedule depending upon local conditions.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lbs. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 4.74 lbs. of copper (9.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Beets (Green)	Black rot ( <i>Xanthomonas</i> ), Black leaf spot ( <i>Alternaria</i> ), Downy mildew ( <i>Peronospora</i> )	1 to 2 lbs.	1 to 2 paks per acre
	USE INSTRUCTIONS: Apply at 10 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 or when conditions favor disease development. Use higher rates when conditions favor disease.		
<b>Use Restrictions:</b> Do not apply more than 1.31 lbs. of copper (2.6 lbs. of this product) per acre [1 pak per 0.38 acre] per application. Do not apply more than 7.86 lbs. of copper (15.7 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.			
Blackberries (Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalems, and Thornless evergreens)	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	4 lbs.	4 paks per acre
	USE INSTRUCTIONS: Apply as delayed dormant spray after training in the Spring. Make Fall application after harvest. Add 1 qt. of crop oil per acre.		

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Blackberries (Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalems, and Thornless evergreens) (Cont.)	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Apply when leaf buds begin to open and repeat when flower buds show white. Add 1 quart of crop oil per acre. <b>Note:</b> Crop injury may occur if applied to foliage under certain conditions such as hot or prolonged moist periods. Discontinue application if signs of crop injury appear.		
<b>Use Restrictions:</b> Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre [4 paks per acre] per application. Do not apply more than 10 lbs. of copper (20 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Blueberries	Bacterial canker	4.2 lbs.	4 paks per 0.95 acre
	USE INSTRUCTIONS: Make first application before Fall rains and a second application four weeks later.		
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Greens (Collard, Mustard, Turnip)	Black rot ( <i>Xanthomonas</i> ), Black leaf spot ( <i>Alternaria</i> ), Downy mildew ( <i>Peronospora</i> )	1 lb.	1 pak per acre
	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 or when conditions favor disease development. Use higher rates when conditions favor disease. <b>Note:</b> Reddening of older leaves may occur on Broccoli and flecking of wrapper leaves may occur on Cabbage.		
<b>Use Restrictions:</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre [1 pak per acre] per application. Do not apply more than 2.65 lbs. of copper (5.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Cacao	Black pod	2 to 4.5 lbs.	2 paks per 0.44 to 1 acre
	USE INSTRUCTIONS: Begin applications at the start of the rainy season and continue while infection conditions persist. Sprays should be made at 2 to 4.5 pounds as often as 14 to 21 days in high rainfall areas at varying rates depending on disease severity. For drier areas, where 2 to 4 applications are recommended during critical infection periods and at long intervals, use 4.5 lbs. per acre according to disease incidence and planting density.		
<b>Use Restrictions:</b> Do not apply more than 2.25 lbs. of copper (4.5 lbs. of this product) per acre [1 pak per 0.22 acre] per application. Do not apply more than 15.75 lbs. of copper (31.5 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.			

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(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Cantaloupes, Honeydews, Muskmelons	Downy mildew	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Begin application when conditions are favorable for disease development and repeat at 5-day intervals depending on disease severity.		
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre [1 pak per 0.47 acre] per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.			
Carambola	Anthracnose	4.2 lbs.	4 paks per 0.95 acres
	USE INSTRUCTIONS: Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.		
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 10.5 lbs. of copper (21 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Carrots	Alternaria, Cercospora leaf spot	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Begin application when disease first threatens and repeat at 7-day intervals depending on disease.		
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre [2 paks per acre] per application. Do not apply more than 5.3 lbs. of copper (10.6 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Celery, Celeriac	Cercospora early blight, Septoria late blight, Bacterial blight	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Begin application as plants are first established in the field, repeating at 7-day intervals depending on disease severity and environmental conditions.		
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre [2 paks per acre] per application. Do not apply more than 5.3 lbs. of copper (10.6 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Cherries	Dead bud ( <i>Pseudomonas syringae</i> ), Coryneum blight	8 to 12 lbs.	8 to 12 paks 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 dilute spray.		

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Cherries (Cont.)	Brown rot, Blossom blight	3 lbs.	3 paks per acre
	USE INSTRUCTIONS: Apply a full cover spray at popcorn stage and a second application at full bloom. Note: To avoid injury, do not use after full bloom.		
<b>Use Restrictions:</b> During the dormant or late dormant period up to pink bud, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [16 paks 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 [3 paks 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.			
Chives	Downy mildew	1 lb.	1 pak per acre
	USE INSTRUCTIONS: Begin applications when plants are established in the field. Repeat applications every 7 days as dictated by disease conditions.		
<b>Use Restrictions:</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre [1 pak per acre] per application. Do not apply more than 2.65 lbs. of copper (5.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Coffee	Coffee berry disease ( <i>Colletotrichum coffeanum</i> )	4.2 lbs.	4 paks per 0.95 acre
	USE INSTRUCTIONS: Apply first spray after flowering and before onset of long rains and then at 14-day intervals until picking.		
	Bacterial blight ( <i>Pseudomonas syringae</i> )	4.2 lbs	4 paks per 0.95 acre
	USE INSTRUCTIONS: Begin spray program before the onset of the long rains and continue throughout the rainy season at 14-day intervals. The critical time of spraying to control this disease is just before, during and after flowering, especially when coinciding with wet weather.		
Leaf rust ( <i>Hemileia vastatrix</i> )	2 to 4 lbs.	2 to 4 paks per acre	
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 ( <i>Cercospora coffeicola</i> ), Pink disease ( <i>Corticium salmonicolor</i> )	2 lbs.	2 paks per acre	
USE INSTRUCTIONS: Use concentrate or dilute spray. Begin treatment at the start of wet season and continue at monthly intervals for three applications.			
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.			

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Cranberries	Fruit rot	4.2 lbs.	4 paks per 0.95 acre
	USE INSTRUCTIONS: Make first application in late bloom. One or two additional applications at 7-day intervals may be required, depending upon disease severity.		
	Rose bloom	4.2 lbs.	4 paks per 0.95 acre
	USE INSTRUCTIONS: Apply three sprays on 7-day schedule as soon as symptoms are observed.		
	Bacterial stem canker	4.2 lbs.	4 paks per 0.95 acre
	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 ( <i>Monilinia</i> ), Stem and Leaf blight, Red leaf spot	4.2 lbs.	4 paks per 0.95 acre
USE INSTRUCTIONS: Apply delayed dormant spray in the Spring. Repeat at 7-day intervals through prebloom.			
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Cucumbers	Angular leaf spot, Downy mildew	1.5 to 2 lbs.	2 paks per 1 to 1.3 acres
	USE INSTRUCTIONS: Apply when plants begin to vine.		
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre [2 paks per 0.95 acre] per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.			
Currants, Gooseberries	Leaf spot, Anthracnose	8 lbs.	8 paks per acre
	USE INSTRUCTIONS: Make initial application after first leaves have expanded. Continue on a 10-day schedule during wet conditions in the Spring. Make an additional application after harvest.		
<b>Use Restrictions:</b> Do not apply more than 4 lbs. of copper (8 lbs. of this product) per acre [8 paks per acre] per application. Do not apply more than 16 lbs. of copper (32 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.			
Dill	Phoma leaf spot, <i>Rhizoctonia</i> , Foliage blight	1.5 lbs.	1 pak per 0.66 acre
	USE INSTRUCTIONS: Begin applications when plants are first established in the field and repeat at 7-day intervals depending upon disease severity and environmental conditions.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 3.95 lbs. of copper (7.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
(Continued)			

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Eggplant	Alternaria blight, Anthracnose, Phomopsis	1.5 lbs.	1 pak per 0.66 acre
	USE INSTRUCTIONS: Begin application prior to development of disease symptoms. Repeat spray at 7-day intervals depending on disease severity.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 7.9 lbs. of copper (15.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Filberts (OR & WA only)	Bacterial blight	12 lbs.	12 paks per acre
	USE INSTRUCTIONS: Apply as a postharvest spray in late August or early September. In seasons of heavy rainfall apply a second spray when three-fourths of the leaves have dropped. Add 1 pt. of superior-type oil per 100 gals. of water.		
	Eastern filbert blight	12 lbs.	12 paks per acre
	USE INSTRUCTIONS: Apply as a dilute spray in adequate water for thorough coverage. Make initial application after harvest in October before heavy Winter rains begin. The next application should be made in late February to early March followed by another application one month later. If desired, add 1 pint of a sticking agent or superior-type oil per 100 gallons of water.		
<b>Use Restrictions:</b> Do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre [12 paks per acre] per application. Do not apply more than 24 lbs. of copper (48 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days. Permitted in Oregon and Washington only.			
Ginseng	Alternaria leaf and stem blight	2.1 lbs.	2 paks per 0.95 acre
	USE INSTRUCTIONS: Use as a tank mix with 2 lbs. of Rovral 50W in 100 gallons of water. Begin applications as soon as plants emerge in Spring. Applications should be repeated every 7 days until plants become dormant in Fall. If scheduled application is to be made before a rain shower, apply fungicides at least 8 hours before the rain, giving the fungicides time to dry on the plants. Use of a spreader-sticker or sticker is advised. Note: Alternaria leaf and stem blight are most severe in humid conditions such as those found in the dense canopies of 2 to 4 years old Ginseng. It is very important that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.		
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre [2 paks per 0.95 acre] per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
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(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Grapes	Black rot, Powdery mildew, Downy mildew, <i>Phomopsis</i> , Leaf blight	2 lbs.	2 paks per acre
	<p><b>USE INSTRUCTIONS:</b> Begin application at late dormant up to bud break with subsequent applications throughout the season, depending upon disease severity. Note: Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagra and Rosette. Either test for sensitivity or add 1 to 3 lbs. of hydrated lime per pound of this product.</p> <p><b>Use Restrictions:</b> Do not apply more than 3 lbs. of copper (6 lbs. of this product) per acre [6 paks 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 3 days.</p>		
Guava	Anthracnose, Red algae	2.5 lbs.	1 pak per 0.4 acre
	<p><b>USE INSTRUCTIONS:</b> Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.</p> <p><b>Use Restrictions:</b> Do not apply more than 1.23 lbs. of copper (2.5 lbs. of this product) per acre [1 pak per 0.4 acre] per application. Do not apply more than 4.92 lbs. of copper (9.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>		
Hops	Downy mildew	1 lb.	1 pak per 20 acres
	<p><b>USE INSTRUCTIONS:</b> Make crown treatment after pruning, but before training. After training, additional treatments are needed at 10-day intervals. Note: Discontinue use 2 weeks before harvest.</p> <p><b>Use Restrictions:</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre [1 pak per acre] per application. Do not apply more than 2.65 lbs. of copper (5.3 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.</p>		
Kiwi	<i>Pseudomonas syringae</i> , <i>Erwinia herbicola</i> , <i>Pseudomonas fluorescens</i>	4.2 lbs.	4 paks per 0.95 acre
	<p><b>USE INSTRUCTIONS:</b> Apply in 200 gallons of water per acre. Make applications on a monthly basis. A maximum of 3 applications may be made.</p> <p><b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 6.3 lbs. of copper (12.6 lbs. of this product) per acre per year. Minimum retreatment interval is 30 days.</p>		
Lettuce, Endive, Escarole	Downy mildew	1 to 2 lbs.	1 to 2 paks per acre
	<p><b>USE INSTRUCTIONS:</b> Begin treatment when disease first appears and repeat every 5 days to suppress disease. <b>Note:</b> Flecking and/or yellowing of leaves will occur under certain environmental conditions such as extended periods of moist weather, acid rains, or other conditions favoring reduced pH on leaf surfaces. Injury may be severe enough to reduce crop value. Increasing the volume of spray water will frequently decrease phytotoxicity potential.</p> <p><b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre [2 paks per acre] per application. Do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.</p>		

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Litchi	Anthracnose	2.5 lbs.	1 pak per 0.4 acre
	<p><b>USE INSTRUCTIONS:</b> Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.</p> <p><b>Use Restrictions:</b> Do not apply more than 1.23 lbs. of copper (2.5 lbs. of this product) per acre [1 pak per 0.4 acre] per application. Do not apply more than 4.92 lbs. of copper (9.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>		
Macadamia nuts	Anthracnose	4.7 lbs.	1 pak per 0.21 acre
	<p><b>USE INSTRUCTIONS:</b> Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.</p>		
	Phytophthora blight ( <i>P. capsici</i> ), Raceme blight ( <i>Botrytis cinerea</i> )	4.5 to 4.7 lbs.	1 pak per 0.21 to 0.22 acre
<p><b>USE INSTRUCTIONS:</b> Apply during raceme development and bloom periods. Apply in sufficient water for thorough coverage.</p> <p><b>Use Restrictions:</b> Do not apply more than 2.36 lbs. of copper (4.7 lbs. of this product) per acre [1 pak per 0.21 acre] per application. Do not apply more than 9.44 lbs. of copper (18.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>			
Mamey sapote	Anthracnose, Algal leaf spot	4.2 lbs.	1 pak per 0.95 acre
	<p><b>USE INSTRUCTIONS:</b> Apply when conditions favor disease development. Repeat on a 14-day schedule as disease severity and environmental conditions dictate.</p> <p><b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [1 pak per 0.95 acre] per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.</p>		
Mangoes	Anthracnose	6.4 lbs.	1 pak per 0.15 acre
	<p><b>USE INSTRUCTIONS:</b> Apply monthly after fruit set until harvest.</p> <p><b>Use Restrictions:</b> Do not apply more than 3.2 lbs. of copper (6.4 lbs. of this product) per acre [1 pak per 0.15 acre] per application. Do not apply more than 48 lbs. of copper (96 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>		
Olives	Peacock spot, Olive knot	8 to 12 lbs.	8 to 12 paks per acre
	<p><b>USE INSTRUCTIONS:</b> Make first application before Winter rain fall. A second application in early Spring should be made if disease is severe.</p> <p><b>Use Restrictions:</b> Do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre [12 paks per acre] per application. Do not apply more than 18 lbs. of copper (36 lbs. of this product) per acre per year. Minimum retreatment interval is 30 days.</p>		
Onions	Purple blotch, Downy mildew	2 lbs.	2 paks per acres
	<p><b>USE INSTRUCTIONS:</b> Begin when plants are 4 to 6 inches high and repeat at 7-day intervals depending on disease severity. Can cause phytotoxicity on leaves.</p>		

(Continued)

(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Onions (Cont.)	Bacterial blight	1 to 1.5 lbs.	1 pak per 0.66 to 1 acre
	USE INSTRUCTIONS: Begin when plants are 4 to 6 inches high and repeat at 7-day intervals depending on disease severity. Can cause phytotoxicity on leaves.		
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre [2 paks per acre] per application. Do not apply more than 6 lbs. of copper (12 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Papaya	Anthraco nose	4 to 5.2 lbs.	4 paks per 0.76 to 1 acre
	USE INSTRUCTIONS: Apply before disease appears. The addition of any approved spreader is desirable.		
<b>Use Restrictions:</b> Do not apply more than 2.63 lbs. of copper (5.2 lbs. of this product) per acre [1 pak per 0.19 acre] per application. Do not apply more than 21.2 lbs. of copper (42.4 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Parsley	Bacterial blight ( <i>Pseudomonas</i> sp.)	2 lbs.	2 paks per acre
	USE INSTRUCTIONS: Begin applications when plants are first established in the field and repeat at 10-day intervals depending upon disease severity and environmental conditions.		
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre [2 paks per acre] per application. Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Passion fruit	Anthraco nose	4.7 lbs.	1 pak per 0.21 acre
	USE INSTRUCTIONS: Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.		
<b>Use Restrictions:</b> Do not apply more than 2.36 lbs. of copper (4.7 lbs. of this product) per acre [1 pak per 0.21 acre] per application. Do not apply more than 9.44 lbs. of copper (18.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Peaches, Nectarines	Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast ( <i>Pseudomonas</i> ), Bacterial spot ( <i>Xanthomonas</i> )	8 to 16 lbs.	8 to 16 paks per acre
	USE INSTRUCTIONS: Apply at leaf fall. Use the highest rate when rainfall is very heavy and disease pressure is high. May be used with agricultural spray oil.		
	Brown rot blossom blight	8 to 12 lbs.	8 to 12 paks per acre
	USE INSTRUCTIONS: Apply as full cover spray at pink bud. Application at this time affords some control of Leaf curl and Coryneum blight.		
	Bacterial spot	1 lb.	1 pak per acre
USE INSTRUCTIONS: Make post-bloom application at first and second cover sprays.			

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(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Peaches, Nectarines (Cont.)	Bacterial spot	8 lbs.	8 paks per acre
	USE INSTRUCTIONS: Apply as a dormant spray.		
<b>Use Restrictions:</b> During the dormant or late dormant period up to pink bud, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [16 paks 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 [3 paks 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. <b>Note:</b> Do not spray later than three weeks prior to harvest. Use only specified rates. Spotting of leaves and defoliation may occur from use in cover sprays.			
Peanuts	Cercospora leaf spot	1.5 lbs.	1 pak per 0.66 acre
	USE INSTRUCTIONS: Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat at 7-day intervals. <b>Note:</b> The use of 1 to 2 quarts of Suffa® per acre may be added.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 4.74 lbs. of copper (9.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Pears	Fire blight	1 lb.	1 pak per acre
	USE INSTRUCTIONS: Apply at 5-day intervals throughout the bloom period.		
	Blossom blast ( <i>Pseudomonas</i> blight)	12 to 16 lbs.	12 to 16 paks per acre
USE INSTRUCTIONS: Apply before Fall rains and again during dormancy before Spring growth starts. Use the higher rates when disease pressure is high or when conditions favor the development of such. <b>Note:</b> May cause Fruit russet on copper sensitive varieties.			
<b>Use Restrictions:</b> During the Fall or late dormant period, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [16 paks per acre] per application. Only one application is permitted per season. Between silver-tip and green-tip period, do not apply more than 6 lbs. of copper (12 lbs. of this product) [12 paks] per acre per application. Only one application per season is permitted. During the bloom or growing period, do not apply more than 1.5 lb. of copper (3 lbs. of this product) per acre [3 paks per acre] per application. Minimum retreatment interval is 5 days. Do not apply more than 16 lbs. of copper (32 lbs. of this product) per acre per year.			
Peas	Powdery mildew	1.5 lbs.	1 pak per 0.66 acre
	USE INSTRUCTIONS: Begin application when disease symptoms first appear and repeat at weekly intervals.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 3.95 lbs. of copper (7.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			

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(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Pecans	Shuck and Kernel rot ( <i>Phytophthora cactorum</i> ), Zonate leaf spot ( <i>Cristulariella pyramidalis</i> )	2 to 4 lbs.	2 to 4 paks per acre
	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.	1 pak per 0.95 acre
	USE INSTRUCTIONS: Mix with spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.		
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [1 pak per 0.95 acre] per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.			
Pecans (FL and TX)	Ball Moss	4.2 lbs.	4 paks per a 0.95 acre
	USE INSTRUCTIONS: Apply 4.2 pounds per 100 gallons of water, in the Spring, when Ball moss is actively growing, using 1.5 gallons of spray per foot of tree height. Make sure to wet Ball moss tufts thoroughly. A second application may be required after 12 months. <b>Note:</b> This product may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonry surfaces. Do not spray on cars, houses, lawn furniture, etc.		
	Shuck and Kernel rot ( <i>Phytophthora cactorum</i> ), Zonate leaf spot ( <i>Cristulariella pyramidalis</i> )	2 to 4 lbs.	2 to 4 paks per acre
	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 interval if frequent rainfall occurs.		
Mosses, Alga, Lichen	4.2 lbs.	4 paks per a 0.95 acre	
USE INSTRUCTIONS: Mix with spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.			
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.			
Peppers	Bacterial spot	1.5 lbs.	1 pak per 0.66 acre
	USE INSTRUCTIONS: Begin applications when conditions first favor disease development and repeat at 3-day intervals depending on disease severity.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lbs. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 11.85 lbs. of copper (23.7 lbs. of this product) per acre per year. Minimum retreatment interval is 3 days.			
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Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Pistachios	Botrytis blight ( <i>Botryosphaeria</i> ), Panicle and Shoot blight, Septoria leaf blight, Late blight ( <i>Alternaria alternata</i> )	4 to 4.2 lbs.	1 pak per 0.95 to 1 acre
	USE INSTRUCTIONS: Make initial application at bud swell and repeat on a 14-day schedule as dictated by disease conditions. If disease conditions are severe, use the high rate.		
<b>Use Restrictions:</b> Do not apply more than 2.1 lbs. of copper (4.2 lbs. of this product) per acre [4 paks per 0.95 acre] per application. Do not apply more than 8.4 lbs. of copper (16.8 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.			
Plums, Prunes	Coryneum blight (shot hole)	8 to 16 lbs.	8 to 16 paks per acre
	USE INSTRUCTIONS: Apply as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high.		
	Brown rot, Blossom blight	See "Use Instructions"	
USE INSTRUCTIONS: Apply full cover application at pink stage at the rate of 8 to 12 lbs. per acre [8 to 12 paks per acre] per application. Use the high rate when disease pressure is heavy or conditions favor the development of such. Application can also be made at the red or early white stage at the rate of 3 lbs. per acre [3 paks per acre] per application.			
<b>Use Restrictions:</b> During the dormant or late dormant period up to pink bud, do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre [16 paks 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 [3 paks 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.			
Potatoes	Early blight, Late blight	1 to 4 lbs.	1 to 4 paks per acre
	USE INSTRUCTIONS: Apply at 1 to 1.5 lbs. at 5- to 10-day intervals starting when plants are 6 inches high until 2 weeks before harvest in locations where disease is light. Use 3 to 4 lbs. per acre where disease is more severe. Under conditions of severe disease, control with this product will be improved by tank mixing with other compatible fungicides registered for use on Potatoes. Read and follow all label instructions of tank mix partners.		
<b>Use Restrictions:</b> Do not apply more than 2.5 lbs. of copper (5 lbs. of this product) per acre [5 paks per acre] per application. Do not apply more than 25 lbs. of copper (50 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.			
Pumpkin, Squash	Powdery mildew	1.5 to 2.1 lbs.	2 paks 0.95 to 1.33 acres
	USE INSTRUCTIONS: Begin application when plants are 3 weeks old or when disease symptoms first appear and repeat at 5-day intervals to maintain control. Use the higher rates if disease is heavy or conditions favor such.		
<b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre [2 paks per 0.95 acre] per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.			
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Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Quince	Fire blight	1 lb.	1 pak per acre
	USE INSTRUCTIONS: Apply at 5-day intervals throughout bloom period.		
<b>Use Restrictions:</b> Do not apply more than 0.5 lb. of copper (1 lb. of this product) per acre [1 pak per acre] 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.			
Raspberries	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	4 lbs.	4 paks per acre
	USE INSTRUCTIONS: Apply as delayed dormant spray after training in the Spring. Make Fall application after harvest. Add 1 qt. of crop oil per acre.		
	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust	2 lbs.	2 paks per acre
USE INSTRUCTIONS: Apply when leaf buds begin to open and repeat when flower buds show white. Add 1 quart of crop oil per acre. <b>Note:</b> Crop injury may occur if applied to foliage under certain conditions such as hot or prolonged moist periods. Discontinue application if signs of crop injury appear.			
<b>Use Restrictions:</b> Do not apply more than 2 lbs. of copper (4 lbs. of this product) per acre [4 paks per acre] per application. Do not apply more than 10 lbs. of copper (20 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Spinach	Anthracnose, Blue mold, Cercospora leaf spot, White rust	1.5 lbs.	1 pak per 0.66 acre
	USE INSTRUCTIONS: Begin applications when disease first appears or conditions favor disease development. Repeat at 7-day intervals. <b>Note:</b> Flecking may occur on Spinach leaves.		
<b>Use Restrictions:</b> Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre [1 pak per 0.66 acre] per application. Do not apply more than 3.95 lbs. of copper (7.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Strawberries	Leaf spot, Leaf blight	2 to 3 lbs.	2 to 3 paks per acre
	USE INSTRUCTIONS: Begin application when plants are established and continue on a weekly schedule throughout the season. Apply in at least 20 gallon of water. Use the higher rate for severe disease infection. <b>Note:</b> Discontinue application if signs of crop injury appear.		
<b>Use Restrictions:</b> Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre [2 paks per acre] per application. For severe disease infection, do not apply more than 1.5 lbs. of copper (3 lbs. of this product) [3 paks] 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.			
<b>(Continued)</b>			

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Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Sugar apple (Annona)	Anthracnose	6.3 lbs.	6 paks per 0.95 acres
	USE INSTRUCTIONS: Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.		
<b>Use Restrictions:</b> Do not apply more than 3.15 lbs. of copper (6.3 lbs. of this product) per acre [6 paks per 0.95 acres] per application. Do not apply more than 12.6 lbs. of copper (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.			
Sugar beets, Table beets	Cercospora leaf spot	2 to 2.6 lbs.	2 paks per 0.76 to 1 acre
	USE INSTRUCTIONS: Begin application when conditions first favor disease development and repeat at 10-day intervals as needed. Use the higher rate when disease is severe. Addition of Surf-Ac® 820 or a suitable agricultural oil is recommended.		
<b>Use Restrictions:</b> Do not apply more than 1.31 lbs. of copper (2.6 lbs. of this product) per acre [2 paks per 0.76 acre] per application. Do not apply more than 7.86 lbs. of copper (15.7 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.			
Tomatoes	Early blight	See "Use Instructions"	
	USE INSTRUCTIONS: When disease threatens, apply 1 lb. per acre [1 pak per acre] for tomatoes (processing) at minimum 3 day intervals. For tomatoes (fresh market), use 2 to 3 lbs. per acre [2 to 3 paks per acre].		
	Bacterial speck	See "Use Instructions"	
	USE INSTRUCTIONS: Apply 1 lb. per acre [1 pak per acre] for tomatoes (processing) beginning when disease threatens. For tomatoes (fresh market), use 2 lbs. per acre [2 paks per acre]. Use more frequent applications at minimum 3 day intervals when disease pressure is high.		
	Bacterial spot, Anthracnose, Gray leaf mold, Gray leaf spot, Septoria leaf spot, Late blight	See "Use Instructions"	
USE INSTRUCTIONS: When disease threatens, apply 1 lb. per acre [1 pak per acre] for tomatoes (processing) at minimum 3 day intervals. For tomatoes (fresh market), use 2 to 3.2 lbs. per acre [3 paks per 0.93 to 1.5 acres].			
<b>Use Restrictions: For Tomatoes (Processing):</b> Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre [1 pak per acre] per application. Do not apply more than 17.4 lbs. of copper (34.8 lbs. of this product) per acre per year. <b>For Tomatoes (Fresh Market):</b> Do not apply more than 1.6 lbs. of copper (3.2 lbs. of this product) per acre [3 paks per 0.93 acre] per application. Do not apply more than 8 lbs. of copper (16 lbs. of this product) per acre per year. Minimum retreatment interval is 3 days.			
<b>(Continued)</b>			

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(Cont.)			
Crop	Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Walnuts	Walnut blight	8 lbs.	8 paks per acre
	<p>USE INSTRUCTIONS: Apply first application spray at early prebloom prior to when catkins are partially expanded. Make additional applications during bloom and early nutlet stage when free moisture occurs. Thorough coverage of catkins, leaves and nutlets is essential for effective control. When applied as a dilute spray, 1 pint of Summer oil emulsion may be added per 100 gallons of spray.</p> <p><b>Note:</b> Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present.</p>		
<p><b>Use Restrictions:</b> Do not apply more than 4 lbs. of copper (8 lbs. of this product) per acre [8 paks per acre] per application. Do not apply more than 32 lbs. of copper (64 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>			
Watercress	Cercospora leaf spot	1 lb.	1 pak per acre
	<p>USE INSTRUCTIONS: Begin applications when plants are first established in the field, repeating at 7-day intervals depending on disease severity and environmental conditions.</p> <p>Do not exceed 4 applications per crop. Apply using ground spray equipment at no less than 50 gallons of spray solution per acre.</p>		
<p><b>Use Restrictions:</b> Do not apply more than 0.53 lbs. of copper (1 lb. of this product) per acre [1 pak per acre] per application. Do not apply more than 2.12 lbs. of copper (4.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p>			
Watermelon	Anthracnose, Bacterial fruit blotch (suppression), Downy mildew	1.5 to 2 lbs.	2 paks per 1 to 1.33 acres
	<p>USE INSTRUCTIONS: Apply as soon as plants become established in the field and repeat at 5-day intervals depending upon disease severity. Use higher rates when conditions favor disease.</p>		
<p><b>Use Restrictions:</b> Do not apply more than 1.05 lbs. of copper (2.1 lbs. of this product) per acre [1 pak per 0.95 acre] per application. Do not apply more than 5.25 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.</p>			
Wheat, Barley, Oats	Septoria leaf blotch, Helminthosporium spot blotch	1 lb.	1 pak per acre
	<p>USE INSTRUCTIONS: Make first application at early heading and follow with a second spray 10 days later. Use the higher rates when conditions favor disease.</p>		
<p><b>Use Restrictions:</b> Do not apply more than 0.53 lbs. of copper (1 lb. of this product) per acre [1 pak per acre] per application. Do not apply more than 1.06 lbs. of copper (2.1 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.</p>			

**CITRUS**

Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Melanose, Scab, Algal spot	4 to 6.3 lbs.	6 paks per 0.95 to 1.5 acres
	<p>USE INSTRUCTIONS: Apply as prebloom and post-bloom sprays.</p>	

(Continued)

(Cont.)		
Disease	Rate of this Product per Acre	Number of Water-Soluble Paks
Greasy spot, Pink pitting	2 to 6 lbs.	6 paks per 1 to 3 acres
	<p>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.</p>	
Alternaria	6.3 lbs.	6 paks per 0.95 acre
	<p>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.</p>	
Phytophthora brown rot, Septoria spot	4 to 6.3 lbs.	6 paks per 0.95 to 1.5 acre
	<p>USE INSTRUCTIONS: Begin application in Fall. 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.</p> <p><b>Note:</b> In CA, in areas subject to copper injury, add 0.33 to 1 lb. of high quality lime per lb. of this product.</p>	
Citrus canker (suppression only)	6.3 lbs.	6 paks per 0.95 acre
	<p>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.</p>	
Phytophthora foot rot	1 lb.	1 pak per acre
	<p>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 existing infections.</p>	
<p><b>Use Restrictions:</b> Do not apply more than 3.15 lbs. of copper per acre (6.3 lbs. of this product) per acre [6 paks per 0.95 acre] per application. Do not apply more than 12.6 lbs. of copper per acre (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.</p> <p><b>Note:</b> Adding foliar nutritionals 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.</p>		

**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 (2 paks per 1000 gals. of water). Apply this product at 28-day intervals depending on disease severity.

**Use Restrictions:** Do not apply more than 3.15 lbs. of copper per acre (6.3 lbs. of this product) per acre [6 paks per 0.95 acre] per application. Do not apply more than 12.6 lbs. of copper per acre (25.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.

**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 specified 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, and brown 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 as specified.

**Note:** This product may be used as a maintenance spray alone or in combination with other fungicides such as dithiocarbamates.

**USE RESTRICTIONS:**

**On Easter Lilies:** Do not apply more than 5 lbs. of copper (5 lbs. of this product) per acre [5 paks per acre] per application. Do not apply more than 75 lbs. of copper (150 lbs. of this product) per acre per year. Minimum 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 [4 paks 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 days.

Ornamentals	Disease
Althea (Rose of Sharon)	Bacterial leaf spot
Aralia	Alternaria, Bacterial fruit blotch (suppression), Cercospora leafspot, Downy mildew, Xanthomonas leafspot
Arbovitae	Alternaria twig blight, Cercospora leaf blight
Azalea*	Botrytis blight, Cercospora leaf spot, Phytophthora dieback, Powdery mildew
Begonia	Bacterial leaf spot ( <i>Xanthomonas</i> sp., <i>Erwinia</i> sp., <i>Pseudomonas</i> sp.)
Bougainvillea	Anthracoise, Bacterial leaf spot
Bulbs, (Tulip, Gladiolus)	Anthracoise, Botrytis blight
Camellia	Anthracoise, Bacterial leaf spot
Camphor tree	<i>Pseudomonas</i> leaf spot
Canna	<i>Pseudomonas</i> leaf spot
Carnation*	Alternaria blight, Botrytis blight, <i>Pseudomonas</i> leaf spot
Chinese tallow tree	Bacterial leaf spot ( <i>Xanthomonas</i> sp., <i>Pseudomonas</i> sp.)
Chrysanthemum*	Botrytis blight, Septoria leaf spot
Cotoneaster	Botrytis blight
Dahlia	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Date palm	Pestalotia leaf spot
Dianthus	Bacterial spot, Bacterial soft rot
Dogwood	Anthracoise
Dusty miller	Bacterial leaf spot ( <i>Pseudomonas cichorii</i> )
Easter lily**	Botrytis blight
Echinacea	Bacterial leaf spot ( <i>Pseudomonas cichorii</i> )
"Elm""Drake""	Xanthomonas leaf spot
Euonymus	Anthracoise, Botrytis blight
European fan palm	Pestalotia leaf spot
Gardenia	Alternaria 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
Golden rain tree	Bacterial leaf spot
Hibiscus	Bacterial leaf spot
Holly fern	<i>Pseudomonas</i> leaf spot
Impatiens	Bacterial leaf spot

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Indian hawthorn***	Anthracoise, Entomosporium leaf spot
Ivy (English, Algerian)*	Xanthomonas leaf spot
Ixora	Xanthomonas leaf spot
Juniper (Easter red cedar)	Anthracoise
Lantana	Bacterial leaf spot
Lilac	Cercospora leaf spot
Loblolly bay	Anthracoise
Loquat	<i>Entomosporium maculata</i> , <i>Colletotrichum</i> sp.
Magnolia (Southern)	Algal leaf spot, Anthracnose, Bacterial leaf spot
Magnolia (Sweet bay)	Anthracoise
Magnolia	Bacterial leaf spot
Mandevillas	Anthracoise
Marigold	Alternaria leaf spot, Botrytis leaf and flower rot, Cercospora leaf spot
Mulberry, weeping	Bacterial leaf spot
Oak, laurel	Algal leaf spot ( <i>Cephaleuros virescens</i> )
Oleander	Bacterial leaf spot, Fungal leaf spot
Pachysandra	Volutella leaf blight
Pansy	Downy mildew
Pear (Flowering)	Fireblight, Leaf spot
Pentas (Egyptian star)	Bacterial leaf spot ( <i>Xanthomonas</i> sp.)
Peony	Botrytis blight
Periwinkle	Phomopsis stem blight
Philodendron	Bacterial leaf spot
Phlox	Alternaria leaf spot
Photinia (Red top, Red leaf)	Anthracoise, Entomosporium
Pistachio	Anthracoise
Plantain lily	Bacterial leaf spot
Powder puff 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
Viburnum	Anthracoise
Washingtonia palm	Pestalotia leaf spot
Weeping willow	Anthracoise
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 selling season.

Note: Phytotoxicity may depend on varietal differences. If unfamiliar with the use of this product, apply the specified rate to a few plants and observe after 7 to 10 days for symptoms of phytotoxicity.

\*\* For Easter lily, use 3 to 5 lbs. per acre in 20 to 100 gallons water [5 paks per 1 to 1.66 acres].

\*\*\* For Indian hawthorn, use 2 to 4 lbs. per 100 gallons [4 paks per 1 to 2 acres].

**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 label. 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 specified rates to the plant in question, i.e. foliage, 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. One level tablespoon of this product per 1,000 square feet is equal to 0.259 lb. of copper (0.5 lb. of this product) per acre [ 1 pak per 2 acres]. This product should be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat as specified.

GREENHOUSE AND SHADEHOUSE CROPS		
Crop	Disease	Rate of this Product Per Acre
Eggplant	Alternaria blight, Anthracnose, Phomopsis	1 lb. (1 pak per acre)
	USE INSTRUCTIONS: Begin applications prior to development of disease symptoms. Repeat sprays at 7- to 10-day intervals depending on disease pressure.	
Use Restrictions: Do not apply more than 0.79 lb. of copper per acre (1.5 lbs. of this product per acre or 2 paks per 1.33 acres) per application. Do not apply more than 7.9 lbs. of copper per acre (15.8 lbs. of this product per acre or 15 paks per 0.95 acre) per year. Minimum retreatment interval is 7 days.		
Pepper	Bacterial spot	1 to 1.5 lbs. [1 pak per 0.66 to 1 acre]
	USE INSTRUCTIONS: Begin applications when conditions first favor disease development and repeat at 3-day intervals depending on disease severity. Use higher rate for severe disease.	
Use Restrictions: Do not apply more than 0.79 lb. of copper per acre (1.5 lbs. of this product per acre or 2 paks per 1.33 acres) per application. Do not apply more than 11.85 lbs. of copper per acre (23.7 lbs. of this product per acre or 23 paks per 0.97 acres) per year. Minimum retreatment interval is 3 days.		
Cucumber	Angular leaf spot, Downy mildew	0.75 to 1 lb. (1 pak per 1 to 1.33 acres)
	USE INSTRUCTIONS: Apply at 5-day intervals when plants begin to vine.	
Use Restrictions: Do not apply more than 1.05 lbs. of copper per acre (2.1 lbs. of this product per acre 2 paks per 0.95 acres) per application. Do not apply more than 5.25 lbs. of copper per acre (10.5 lbs. of this product per acre or 10 paks per 0.95 acres) per year. Minimum retreatment interval is 5 days.		
Tomato	Early blight, Late blight	See "Use Instructions"
	USE INSTRUCTIONS: Begin when disease first threatens and repeat at 3-day intervals depending on disease severity. Apply 1 lb. [1 pak per acre] for tomato (processing). For tomato (fresh market), use 1 to 1.5 lbs. per acre [1 pak per 0.66 to 1 acre].	
	Bacterial speck	See "Use Instructions"
	USE INSTRUCTIONS: Begin applications when disease first threatens and repeat at 3-day intervals depending on disease severity. Apply 1 lb. [1 pak per acre] for tomato (processing) and tomato (fresh market).	
	Bacterial spot, Anthracnose, Gray leaf mold, Septoria leaf spot	See "Use Instructions"
	USE INSTRUCTIONS: Begin when disease first threatens and repeat at 3-day intervals depending on disease severity. Apply 1 lb. [1 pak per acre] for tomato (processing). For tomato (fresh market), use 1 to 2 lbs. per acre [1 to 2 paks per acre].	
Use Restrictions: For Tomatoes (Processing): Do not apply more than 0.53 lb. of copper per acre (1 lb. of this product per acre [1 pak per acre] per application. Do not apply more than 17.4 lbs. of copper per acre (34.8 lbs. of this product per acre or 34 paks per 0.97 acre) per year. For Tomatoes (Fresh Market): Do not apply more than 1.6 lbs. of copper per acre (3.2 lbs. of this product per acre or 4 paks per 1.25 acres) per application. Do not apply more than 8 lbs. of copper per acre (16 lbs. of this product per acre or 16 paks per acre) 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:** **Nonrefillable Container:** Nonrefillable container. Do not reuse or refill this container. Once outer bag of water soluble packet is empty, offer for recycling, if available, or dispose of in the trash as long as water soluble packet is unbroken, or 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 DIRECTIONS 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 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.