

55146-1

8/23/2010

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

EPA Reg. Number: 55146-1  
 Date of Issuance: AUG 23 2010

NOTICE OF PESTICIDE:  
 \_\_\_ Registration  
 X  Reregistration  
 (under FIFRA, as amended)


Term of Issuance:  
 Name of Pesticide Product:  
 Champion Wettable Powder

Name and Address of Registrant (include ZIP Code):  
 Nufarm Americas Inc.  
 150 Harvester Drive  
 Burr Ridge, IL 60527

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

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

This product is reregistered in accordance with FIFRA provided that you:  
 1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.

Signature of Approving Official:  
  
 Tony Kish  
 Product Manager 22  
 Fungicide Branch  
 Registration Division (7504P)

Date:  
 AUG 23 2010

- 2) An area to be treated for use to treat Phytophthora and foot rot on citrus, crown, and collar rot in apples, black pitting on bananas, and ball moss on live oak must be added to the label.
- 3) Change the Hazards to Humans and Domestic Animals section to "DANGER Corrosive. Cause irreversible eye damage. Harmful if swallowed. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust."
- 4) Revise the Environmental Hazards to "This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinseate."
- 5) To the Agricultural Use Requirements box add "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 for eye flush station that is located with the decontamination supplies, and -how to operate the eye flush container or eye flush station."
- 6) To the label add, "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.”

7) Change “general instructions” to “product instructions”. Delete “general” from “general chemigation instructions”.

8) Due to the Category I eye and turfgrass use, this product must be packaged in child resistant packaging.

9) To the Directions For Use:

Turf: On page 3, add the maximum annual application rate of 21 lbs. metallic copper per acre per year and the minimum retreatment interval of 7 days.

Ornamentals: On page 3, add the maximum annual application rate of 20 lbs. metallic copper per acre per year and the minimum retreatment interval of 7 days”.

Citrus: On pages 5-6, add the maximum individual application rate of 3.15 lbs. metallic copper

per acre per year, the maximum annual application rate of 12.6 lbs. metallic copper per acre per year, and the minimum retreatment interval of 7 days.

On page 6, to the Field Nursery Grown: It is unclear which crop is being treated. This section must be deleted or changed to specify the crop and must be in compliance with the RED. Delete "as needed".

Peanuts: Revise the maximum annual application rate to 4.74 lbs. metallic copper per acre.

Potato: Delete "as needed".

Sugar Beet: Add that the annual application rate is 7.86 lbs. metallic copper per acre per year, and delete any conflicting text (there are 2 rates listed on the label).

Brambles: Add that the retreatment interval is 7 days.

Cranberry: Delete "as needed".

Current and Gooseberry: Change the retreatment interval to 10 days.

Almonds: Revise the rate up to 4 lbs. during early bloom to 1.5 lbs. metallic copper per acre.

Apples: Delete "use higher rates under severe disease conditions". Change 8.0 lbs. metallic copper per acre to 6.0 lbs.

Cacao: Delete "For drier areas...density".

Filberts: The text "...or when conditions are conducive for disease development" must be deleted.

Peach and nectarine: Change the retreatment interval for application up to pink bud from 5 days to 7 days.

Walnut: Delete "make additional applications during bloom and early nutlet stage".

Beans, peas, peppers, and spinach: Revise the directions for use to "apply 1.58 lbs. product per acre equal to 0.79 lbs. metallic copper/acre".

Beets: Delete "as needed". Change 2.02 lbs. of product per acre is equal to 1.01 lbs. metallic copper.

Crucifer: Delete "such as".

Cucurbit: Change 2.1 lbs metallic copper/A to 1.05 lbs. metallic copper/A.

Eggplant: Revise the application rate to "apply 1.58 lbs. product per acre equal to 0.79 lbs. metallic copper/acre".

Tomato: Delete "as needed". Rates up to 2lbs product per acre are only allowed for use on tomatoes grown for fresh market, revise the crop heading.

Hops: Regardless of the timing of pruning or training, the minimum retreatment interval is 10 days, revise accordingly.

Dill: Delete "as needed".

Greenhouse and Shade House: Revise to one tablespoon of product per 1000 square feet is equal to 0.57 lbs. metallic copper per acre. Revise rates accordingly.

Eggplant and pepper: Delete "or as disease pressure dictates". The label must be changed to comply with the maximum individual application rate of 0.79 lbs. metallic copper per acre.

Tomato: Delete "as needed". The label must be revised to comply with the maximum individual application rate of 0.53 lbs. metallic copper per acre.

Citrus: An area must be specified and the rate must comply with the RED. Delete "or as needed depending on disease severity".

Ornamentals: Delete "or as needed".

Throughout the label change "recommended rates" to "directed rates".

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

Enclosure: Product Chemistry Review  
Acute Toxicology Review

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# CHAMPION® WETTABLE POWDER

AGRICULTURAL FUNGICIDE

ACCEPTED  
with COMMENT  
in EPA Letter Date

AUG 23 2010  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

55 146-1

**ACTIVE INGREDIENT:**

Copper Hydroxide\* (CAS No. 20427-59-2) ..... 77.0%

**OTHER INGREDIENTS:** ..... 23.0%

**TOTAL:** ..... 100.0%

\*Metallic Copper Equivalent 50.0%

**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 the label, find someone to explain it to you in detail.)

**SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 55146-1  
EPA EST. NO. 62562-CHL-2

Manufactured For  
NUFARM AMERICAS INC.  
AGT DIVISION  
150 Harvester Drive  
Burr Ridge, IL 60527



NET CONTENTS:      Lbs. (    Kg)

MADE IN CHILE

055146-00001.20081125.EPA.REV.Pending

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER / PELIGRO**

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

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

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

**Mixers, loaders, applicators, and other handlers must wear the following:**

- long-sleeved shirt and long pants,
- chemical-resistant gloves made of any waterproof material,
- shoes plus socks, and
- protective eyewear (face shield, goggles, or shielded safety glasses).

See engineering controls for additional requirements.

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

**Engineering Control Statement:**

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.

<b>USER SAFETY RECOMMENDATIONS</b>	
<b>Users Should:</b>	
<ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.</li> <li>• 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.</li> </ul>	

<b>FIRST AID</b>	
<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.</li> <li>• Call a poison control center or doctor for 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>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• 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 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>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate use of gastric lavage.	

### 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. Runoff may be hazardous to aquatic organisms in waters adjacent to treated areas. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. For terrestrial uses, 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.

### 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. Do not apply when wind speed favors drift beyond the area intended for treatment. For any requirements specific to your State or Tribe, consult the State or Tribal 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, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (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.

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 WPS 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 area until sprays have dried.

### GENERAL INSTRUCTIONS

This product can be used as noted below. This product is adaptable to spraying from aircraft and ground spraying equipment. Depending upon the equipment used and the specific crop, the volume applied per acre will differ. Refer to recommended volume table below:

Minimum Spray Volume (Gallons) Per Acre When Applying This Product:

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

**Turf (Algae Control):** Apply 0.14 pound of this product per 1,000 square feet (6 lbs. product per acre (0.07 lb. metallic copper per 1,000 sq. ft., equivalent to 3 lbs. metallic copper/A)) in 5 gallons of water.

**Greenhouse and Shadehouse:** Apply this product according to specific rates given for those crops in pounds per acre or pounds per 100 gallons. Two level tablespoons of this product per 1,000 square feet is equivalent to 1 pound per acre. One level tablespoon of this product per gallon of water is equivalent to 1 pound per 100 gallons.

**Ornamentals:** Apply as a thorough coverage spray using 0.5 pound of this product per 100 gallons of water. Apply no more than 800 gallons solution per acre dilute per application depending on the size of the ornamental. Do not make more than 10 applications at these rates per year. **Note:** Compact flowers may take as little as 20 gallons solution per acre while large trees may take as much as 800 gallons solution per acre.

This product may be applied as an aerial or ground concentrate spray unless specifically directed otherwise by crop in the site instructions.



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 large mature tree crops.

The per acre use rate of this product is applicable for both dilute and concentrate spraying. Consult this 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, other factors such as foliage density, environmental conditions and sprayer calibrations, can have a greater impact. Always be sure that sprayers are calibrated to spray equipment manufacturer's specifications and environmental conditions are within those recommended by State and local regulatory authorities.

When mixing, fill spray tank half full with water. Add this product slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Spreaders, stickers, insecticides, nutrients, etc. should be added last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Observe the most stringent precautions and limitations on the label of all products used in mixtures.

**NOTE:** This product should not be applied in a spray solution having a pH less than 6.0 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 effect the performance of this product resulting in possible phytotoxicity or loss of effectiveness.

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.

**NOTE:** Where application rates are provided in a range, for example 4 to 12 lbs., the higher rates are recommended when rainfall is heavy and disease pressure is high.

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

Agricultural chemicals may perform in an unpredictable manner when tank mixed, especially where several products are involved. Reduced effectiveness or crop injury may occur. Unless recommended on this label or by a state/local expert, it is advisable to test for compatibility and tolerance to crop injury prior to full-scale commercial utilization of a new tank mix or tank mixing should not be undertaken.

Application equipment should be thoroughly flushed with clean water after each day's use.

### GENERAL CHEMIGATION INSTRUCTIONS

Apply this product only through center pivot, motorized lateral move, end tow, traveler, big gun, plastic solid set, or plastic hand move sprinkler irrigation systems that do not contain aluminum components. Do not apply this product through any other type of irrigation system unless specifically set forth above or as may be specified in the future as additional systems not containing aluminum components come into use.

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

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 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 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.

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, in-patient 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 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 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.

This sign is in addition to any sign posted to comply with the WPS.

### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into the reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

When mixing, fill nurse tank half full with water. Add this product slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations that can be encountered, observe the most stringent cautions and limitations on the label of all products used in mixtures.

This product should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended.

### SPRINKLER CHEMIGATION

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

The system must contain a functional check valve, vacuum relief value, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump's motor stops.

The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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

When mixing, fill nurse tank half full with water. Add this product slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc. should be added last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations that can be encountered, observe the most stringent cautions and limitations on the label of all products used in mixtures.

This product should be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is recommended.

### 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 therefore provide some protection against light frost. Not recommended for those geographical areas where weather conditions favor severe frost.

**NOTE: ALL USE RATES LISTED BELOW ARE LBS. OF THIS PRODUCT PER ACRE UNLESS OTHERWISE INDICATED.**

### CITRUS

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

Adding foliar nutritionals to spray mixtures containing this product or other products and applying to citrus during the post bloom period when young fruit are present may result in spray burn. Do not use this product on citrus seedlings less than two years old in

greenhouses or shadehouses. The maximum single rate permitted is 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Do not apply more than 25.2 lbs. product per Acre (12.6 lbs. metallic copper/A) per year. The minimum interval between treatments is 7 days.

*Melanose, Scab, Algal Spot*: Apply 4 to 6.3 lbs. product per Acre (2 to 3.15 lbs. metallic copper/A) as pre-bloom and post-bloom sprays.

*Greasy Spot, Pink Pitting*: Apply 4 to 6.3 lbs. product per Acre (2 to 3.15 lbs. metallic copper/A) in Summer on expanded new flush. Repeat on subsequent flushes if disease conditions are present.

*Brown Rot*: Apply 4 to 6.3 lbs. product per Acre (2 to 3.15 lbs. metallic copper/A). Begin application in Fall and continue at 7 day intervals as needed but do not exceed more than 25.2 lbs. product per Acre (12.6 lbs. metallic copper/A) per year. Apply to skirts of trees to a height of at least 4 feet. Apply also to bare ground one foot beyond skirt.

*Alternaria Brown Spot (SUPPRESSION)\**: On susceptible varieties apply 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A) when the first Spring flush appears and each flush thereafter. Application to the fruiting bodies should start after two thirds of the petals have fallen and be repeated on a 21 day schedule.

**NOTE: (In California)** In areas subject to copper injury, add 1/3 to 1 pound of high quality lime per pound of this product.

*Phytophthora, Foot Rot*: Mix 1 lb. product (0.5 lb. metallic copper) with 1 gallon of water or latex paint and paint trunks of trees from the soil surface to the lowest scaffold limbs. Treatment serves as protection for up to one year, but does not cure existing infections.

Mix 1 lb. product (0.5 lb. metallic copper) with 1 to 2 pints of water. Add mixture to 1 gallon of treehold or latex paint. Paint trunks of trees from soil surface to the lowest scaffold limbs. Treatment serves for protection for up to 1 year, but does not cure existing infections.

**NOTE:** Areas where microjet or low volume irrigation hit the tree trunk may require retreatment due to wash off.

*Citrus Canker (SUPPRESSION)*: Apply 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Spray this product on canker flushes 7 to 14 days after shoots begin to grow. Young fruit may require an additional application. Number and timing of applications will be dependent upon disease pressure. Under heavy pressure, each flush of new growth should be sprayed.

**FIELD NURSERY GROWN**

*Melanose, Scab, Pink Pitting, Greasy Spot, Brown Rot and Citrus Canker (SUPPRESSION)*: Apply 2 lbs. of this product per 100 gallons of water (4 to 6.3 lbs. product per Acre (2 to 3.15 lbs. metallic copper/A)). Apply this product at 28 day intervals or as needed depending on disease severity.

**FIELD CROP**

**ALFALFA**

*Cercospora, Leptosphaerulina Leaf Spot*: Apply 1.06 lbs. product per Acre (0.53 lb. metallic copper/A) 10 to 14 days before each harvest or earlier if disease threatens. The maximum single rate permitted is 1.06 lbs. product per Acre (0.53 lb. metallic copper/A). Do not apply more than 2.24 lbs. product per Acre (1.12 lbs. metallic copper/A) per year. The minimum interval between treatments is 30 days.

**NOTE:** Crop injury may occur with sensitive varieties, such as Lathontan. Determine the sensitivity of the variety in question by testing this product on a small area before treating an entire field.

**PEANUT**

*Cercospora Leaf Spot*: Apply 1.58 lbs. product per Acre (0.79 lb. metallic copper/A). One to 2 quarts of flowable sulfur per acre may be added. Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat at 10 to 14 day intervals (minimum of 7 days between applications) as needed. Reduce sprays to seven day intervals during humid weather. The maximum single rate permitted is 1.58 lbs. product per Acre (0.79 lb. metallic copper/A). Do not apply more than 9.84 lbs. product per Acre (4.92 lbs. metallic copper/A) per year.

**POTATO**

*Early & Late Blight*: Apply 1 to 1-1/2 lbs. product per Acre (0.75 lbs. metallic copper/A) at 5 to 10 day intervals or as needed starting when plants are 3 to 6 inches high in locations where disease is light and up to 3 to 4 lbs. product per Acre (2.5 lbs. metallic copper/A) where disease is more severe.

*Colorado Potato Beetle (SUPPRESSION)*: Applying 1 to 4 lbs. product per Acre (0.5 to 2 lbs. metallic copper/A) at rates and timing recommended for control of *early* and *late blight* may provide suppression of the *Colorado Potato Beetle*.

**For all uses:** The maximum single rate permitted is 5 lbs. product per Acre (2.5 lbs. metallic copper/A). Do not apply more than 50 lbs. product per Acre (25 lbs. metallic copper/A) per year. The minimum interval between treatments is 5 days.

**SUGAR BEET**

*Cercospora Leaf Spot*: Apply 2.62 lbs. product per Acre (1.31 lbs. metallic copper/A) when conditions first favor disease development and repeat at 10 to 14 day intervals as needed. The maximum single rate permitted is 2.62 lbs. product per Acre (1.31 lbs. metallic copper/A). Do not apply more than 15.7 lbs. product per Acre (7.86 lbs. metallic copper/A) per year. The minimum interval between treatments is 10 days. Do not apply more than 2.12 lbs. product per Acre per year. The minimum interval between treatments is 10 days.

**WHEAT, OATS\*, BARLEY**

*Septoria Leaf Blotch, Helminthosporium Spot:* Apply 1.06 lbs. product per Acre (0.53 lb. metallic copper/A). Make first application by early heading and follow with second spray 10 days later. Do not apply more than 2.12 lbs. product per Acre per year. The minimum interval between treatments is 10 days.

**NOTE:** Crop injury may occur with sensitive varieties. Determine the sensitivity of the variety in question by testing this product on a small area before treating an entire field.

\*Except California

**SMALL FRUITS**

**BRAMBLES**

**(aurora, blackberry, boysenberry, cascade, chehalem, logan, marion, raspberry, santiam, thornless evergreen)**

*Leaf and Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, Pseudomonas Blight:* Apply 4 lbs. product per Acre (2.0 lbs. metallic copper/A). Make Fall application after harvest. Apply delayed dormant spray after training in the Spring. Add 1 quart of crop oil per acre. The maximum single rate permitted is 4.0 lbs. product per Acre (2.0 lbs. metallic copper/A). Do not apply more than 20 lbs. product per Acre (10 lbs metallic copper/A) per year. The minimum interval between treatments is 7 days.

*Leaf & Cane Spot, Purple Blotch, Anthracnose, Yellow Rust:* Apply 2 lbs. product per Acre (1.0 lb. metallic copper/A) when leaf buds begin to open and repeat when flower buds show white. Add 1 quart of superior-type oil per acre.

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

**BLUEBERRY\***

*Bacterial Canker:* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Make first application before Fall rains and a second application four weeks later. The maximum single rate permitted is 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Do not apply more than 16.8 lbs. product per Acre (8.4 lbs. metallic copper/A) per year. The minimum interval between treatments is 7 days.

**CRANBERRY**

*Fruit Rot:* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Make first application in late bloom. One or two additional applications at 10 to 14 day intervals may be required depending upon disease severity.

*Upright Dieback:* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A) as a prebloom application. A second application can be made 10 to 14 days later if required.

*Rose Bloom:* Apply three 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A) sprays on 10 to 14 day schedule as soon as symptoms are observed.

*Bacterial Stem Canker:* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A) post harvest and again in Spring before bud burst. One additional application at 10 to 14 day intervals may be required depending on disease severity.

*Stem & Leaf Blight, Red Leaf Spot, Tip Blight (Monilinia):* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Apply delayed dormant spray in the Spring. Repeat at 10 to 14 day interval or as needed through pre-bloom.

**For all uses:** The maximum single rate permitted is 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Do not apply more than 12.6 lbs. product per Acre (6.3 lbs. metallic copper/A) per year. The minimum interval between treatments is 7 days.

**CURRENT, GOOSEBERRY**

*Leaf Spot, Anthracnose:* Apply 5 lbs. product per Acre (2.5 lbs. metallic copper/A). Make three applications starting after harvest followed by application before bloom and after petal fall. The maximum single rate permitted is 5 lbs. product per Acre (2.5 lbs. metallic copper/A). Do not apply more than 20 lbs. product per Acre (10 lbs. metallic copper/A) per year. The minimum interval between treatments is 10 days.

**For all uses:** The maximum single rate permitted is 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Do not apply more than 12.6 lbs. product per Acre (6.3 lbs. metallic copper/A) per year. The minimum interval between treatments is 7 days.

**STRAWBERRY**

*Leaf Spot, Leaf Blight, Angular Leaf Spot (Xanthomonas):* Apply 2 lbs. product per Acre (1.0 lbs. metallic copper/A) (3 lbs. product per Acre (1.5 lb. metallic copper/A) under severe disease pressure). Begin application when plants are established and continue on a 7-day application schedule throughout season. The maximum single rate permitted is 3 lbs. product per Acre (1.5 lbs. metallic copper/A). Do not apply more than 16.38 lbs. product per Acre (8.19 lbs. metallic copper/A) per year. The minimum interval between treatments is 7 days.

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

\*Except California

## TREE CROPS

### ALMOND, APRICOT, CHERRY, PLUM, PRUNE

*Coryneum Blight, Bacteria Canker and Bacterial Blast (Pseudomonas):* Apply 8 to 16 lbs. product per Acre (4 to 8 lbs. metallic copper/A) during dormant or late dormant period and make repeat applications at 7 day intervals. For applications during bloom or growing season, apply 3.0 lbs. product per Acre (1.5 lbs. metallic copper/A) and make repeat applications at 5 day intervals. For all uses, do not apply more than 36 lbs. product per Acre (18 lbs. metallic copper/A) per year. Dormant application: Apply before Fall rains and a second application before foliage and buds begin to swell.

**For Cherries,** an additional application at leaf fall may be required under severe disease conditions. Do not exceed the maximum annual rate of 36 lbs. product per Acre (18 lbs. metallic copper/A).

**For Almonds, Bacterial Blast (Pseudomonas):** Apply 8 to 16 lbs. product per Acre (4 to 8 lbs. metallic copper/A) during dormant or early pink bud and make repeat applications at 7 day intervals. For applications during bloom or growing season, apply 3.0 lbs. product per Acre (1.5 lbs. metallic copper/A) and make repeat applications at 5 day intervals, but do not apply more than 36 lbs. product per Acre (18 lbs. metallic copper/A) per year.

Apply at dormant to early pink bud. For control in sprinkler irrigated orchards or where disease is severe, apply 1 to 3 lbs. per Acre (0.5 to 1.5 lbs. metallic copper/A) at two week post-bloom intervals or just before sprinkling, but do not apply more than 36 lbs. product per Acre (18 lbs. metallic copper/A) per year.

**NOTE:** Injury may occur from post-bloom sprays, especially on Neplus varieties of Almonds.

*Coryneum Blight, Brown Rot, Blossom Blight (For dormant application):* Apply 8 to 12 lbs. product per Acre (4 to 6 lbs. metallic copper/A). Apply before foliage buds begin to swell. (For early bloom (popcorn) application): Apply 6 to 8 lbs. product per Acre (3 to 4 lbs. metallic copper/A). Apply before full bloom. Do not apply more than 36 lbs. product per Acre (18 lbs. metallic copper/A) per year.

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

### APPLE

*Anthracnose, European Canker, Blossom & Shoot Blast, Pseudomonas:* Apply 12 to 16 lbs. product per Acre (6 to 8 lbs. metallic copper/A) during fall or late dormant periods. During bloom or growing season, apply 1.0 lb. product per Acre (0.5 lb. metallic copper/A). Apply before Fall rains. Use higher rates under severe disease conditions. Only one application per season may be made at the highest rate of 16 lbs. product per Acre (8 lbs. metallic copper/A). Do not apply more than a total of 32 lbs. product per Acre (16 lbs. metallic copper/A) per year.

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

*Fireblight:* Apply 8 to 16 lbs. product per Acre (4 to 8 lbs. metallic copper/A). Make only one application per year. Make application between silver-tip and green-tip. Apply as a full cover spray.

**NOTE:** Crop injury may occur from late application. After 1/4 inch green-tip, apply at 1 lb. product per Acre (0.5 lb. metallic copper/A).

*Crown & Collar Rot:* Apply 4 lbs. product. Mix in 100 gallons of water. Apply 4 gallons of suspension as a drench on the lower trunk area of each tree. Apply either in early Spring or in late Fall after harvest. Do not apply more than one application per year.

**NOTE:** Do not use if soil pH is below 5.5 since copper toxicity may result.

### AVOCADO

*Scab, Blotch, Anthracnose:* Apply 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Apply when bloom buds begin to swell and continue application at monthly intervals as required for control. Do not apply more than 37.8 lbs. product per Acre (18.9 lbs. metallic copper).

### BANANA

*Sigatoka:* Apply 2 lbs. product per Acre (1.05 lbs. metallic copper/A). Apply by air in 3 gallons of water containing 1/2 gallon of agricultural oil. Apply on a 7 to 14 day schedule throughout the wet season. Apply at 21 day intervals during dry periods. Do not apply more than 37.8 lbs. product per Acre (18.9 lbs. metallic copper/A) per year.

*Black Pitting:* Apply 4 lbs. Mix in 100 gallons of water. Apply directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence. The minimum interval between treatments is 7 days.

### CACAO

*Black Pod:* Apply up to 4.5 lbs. product per Acre (2.25 lbs. metallic copper/A). Begin applications at the start of the rainy season and continue while infection conditions persist. Apply up to 4.5 lbs. product per Acre (2.25 lbs. metallic copper/A) as often as 14 to 21 days in high rainfall areas at varying rates depending on disease severity. For drier areas, where two to four applications are recommended during critical infection periods and at long intervals, use 8.5 lbs. per acre, according to disease incidence and planting density. Do not apply more than 31.5 lbs. product per Acre (15.74 lbs. metallic copper/A) per year.

### COFFEE

*Coffee Berry Disease (Collectotrichum coffeanum):* Apply up to 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Apply first spray after flowering and before onset of long rains and then at 21 to 28 day intervals (minimum of 14 days between applications) until picking.

*Bacterial Blight (Pseudomonas syringae):* Apply up to 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Begin spray program before the onset of the long rains and continue throughout the rainy season at 14 to 21 day intervals (minimum of 14 days between applications). The critical time of spraying to control this disease is just before, during and after flowering(s) especially when coinciding with wet weather.

*Leaf Rust (Hemileia vastatrix):* Apply 2 to 4 lbs. product per Acre (1 to 2 lbs. metallic copper/A). Apply before the onset of rain and then at 21 day intervals (minimum of 14 days between applications) while the rains continue. Use higher rates when rainfall is heavy and disease pressure is high.

*Iron Spot (Cercospora coffeicola) & Pink Disease (Corticium salmonicolor):* Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Use concentrate or dilute spray. Begin treatment at the start of the wet season and continue at monthly intervals for three applications.

**For all uses:** Do not apply more than 25.2 lbs. product per acre (12.6 lbs. metallic copper/A) per year.

**FILBERT**

**(Washington and Oregon only)**

*Bacterial Blight:* Apply 12 lbs. product per Acre (6 lbs. metallic copper/A). Apply as a post harvest spray. In seasons of heavy rainfall apply a second spray when three-fourths of the leaves have dropped, but no sooner than 14 days after the first application. Add 1 pint of superior-type oil per 100 gallons of water depending on disease pressure. Do not apply more than 48 lbs. product per Acre (24 lbs. metallic copper/A) per year.

*Eastern Filbert Blight:* Apply 12 lbs. product per Acre (6 lbs. metallic copper/A). Apply in sufficient water to obtain thorough coverage. Make initial application at budswell to budbreak. Additional sprays should be made on a 14 day interval depending on disease severity or when conditions are conducive for disease development. Add 1 pint of superior-type oil per 100 gallons of water. Do not apply more than 48 lbs. product per Acre (24 lbs. metallic copper/A) per year.

**MANGO\***

**(Florida and Puerto Rico Only)**

*Anthraxnose:* Apply 5.2 lbs. product per Acre (2.6 lbs. metallic copper/A). Apply at 30 day intervals after fruit set until harvest. Do not apply more than 36.4 lbs. product per Acre (18.2 lbs. metallic copper/A) per year.

**OLIVE**

*Peacock Spot, Olive Knot:* Apply 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Make first application before Winter rains fall. A second application no sooner than 30 days after the first application in early Spring should be made if disease is severe. Do not apply more than 12.6 lbs. product per Acre (6.3 lbs. metallic copper/A) per year.

**PEACH, NECTARINE**

*Leaf Curl, Coryneum Blight (Shothole), Bacterial Canker, Blast (Pseudomonas), Bacterial Spot (Xanthomonas):* Apply 8 to 16 lbs. product per Acre (4 to 8 lbs. metallic copper/A). Apply at 7 day intervals after leaf fall as a dormant or late dormant application. Use the higher rate when rainfall is very heavy and disease pressure is high. May be used with an agricultural spray oil.

*Brown Rot, Blossom Blight, Leaf Curl, Coryneum Blight:* Apply 3 lbs. product per Acre (1.5 lbs. metallic copper/A). Apply as a full cover spray at pink bud (during bloom and growing season). Application at this time affords some control of *Leaf Curl* and *Coryneum Blight*. Make repeat applications at this rate 5 day intervals.

Dormant Spray: Apply at 8 to 16 lbs.

**For all uses:** Do not apply more than 36 lbs. product per Acre (18 lbs. metallic copper/A) per year.

**NOTE:** Do not spray three weeks prior to harvest. Use only recommended rates. Spotting of leaves and defoliation may occur from use in cover sprays.

**PEAR**

*Fire Blight:* Apply 1 lb. product per Acre (0.5 lb. metallic copper/A). Do not apply more than 32 lbs. product per Acre (16 lbs. metallic copper/A) per year. Apply at five day intervals throughout the bloom period.

*Pseudomonas Blight:* Apply 12 to 16 lbs. product per Acre (6 to 8 lbs. metallic copper/A). Apply before Fall rains and again during dormancy before Spring growth starts. Do not apply more than 32 lbs. product per Acre (16 lbs. metallic copper/A) per year.

**NOTE:** Excessive dosages may cause fruit russet.

**PECAN**

*Shuck & Kernel Rot (Phytophthora cactorum), Zonate Leaf Spot (Cristulariella pyramidalis):* Apply 2 to 4 lbs. product per Acre (1 to 2 lbs. metallic copper/A)(FOR SUPPRESSION). Apply in sufficient water to ensure complete spray coverage at two to four week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter interval if frequent rainfall occurs. Do not apply more than 16.8 lbs. product per Acre (8.4 lbs. metallic copper/A) per year.

**PISTACHIO**

*Botrytis Blight, Botryosphaeria Panicle, Shoot Blight, Septoria Leaf Blight, Late Blight (Alternaria alternata):* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Make initial application at bud swell and repeat on a 14 to 28 day schedule as dictated by disease conditions. If disease conditions are severe, use the high rate and short spray interval. Do not apply more than 16.8 lbs. product per Acre (8.4 lbs. metallic copper/A) per year.

**QUINCE\***

*Fire Blight:* Apply 1 lb. product per Acre (0.5 lb. metallic copper/A). Apply at five day intervals through bloom period. Apply in adequate water for thorough coverage. Do not apply more than 32 lbs. product per Acre (16 lbs. metallic copper/A) per year.

**WALNUT**

*Walnut Blight:* Apply 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Apply first application spray at early pre-bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage or at 7 day intervals if frequent rainfall occurs. Thorough coverage of catkin leaves and nutlets is essential for effective control. Do not apply more than 50.4 lbs. product per Acre (25.2 lbs. metallic copper/A) per year.

**NOTE:** When applied as a dilute spray, 1 pint of summer oil emulsion may be added per 100 gallons of spray. Adequate control may not be obtained when copper tolerant species of Xanthomonas bacteria are present.

\*Except California

## VEGETABLES

### BEAN

(Dry and Green) *Bacterial Blight (Halo & Common)*, *Brown Spot*: Apply 1.6 lbs. product per Acre (0.79 lbs. metallic copper/A). For protective sprays, make first application when plants are six inches high; repeat on a 7 to 14 day schedule depending upon local conditions. Do not apply more than 9.48 lbs. product per Acre (4.74 lbs. metallic copper/A) per year.

### BEETS

(Table Beets, Beet Greens) *Cercospora Leaf Spot*: Apply 2.02 lbs. product per Acre (1.31 lbs. metallic copper/A). Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals or as needed. Do not apply more than 15.7 lbs. product per Acre (7.86 lbs. metallic copper/A) per year.

### CRUCIFERS

(Such as Broccoli, Brussels Sprout, Cauliflower, Collard\*, Mustard and Turnip Greens)

*Black Rot (Xanthomonas)*, *Black Leaf Spot (Alternaria)*, *Downy Mildew*: Apply 1.06 lbs. product per Acre (0.53 lbs. metallic copper/A). Apply at 7 to 10 day intervals. For control of disease 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 short interval when conditions favor disease. Do not apply more than 5.3 lbs. product per Acre (2.65 lbs. metallic copper/A) per year.

**NOTE:** Reddening of older leaves may occur on Broccoli.

### CABBAGE

*Downy Mildew*: Apply 1/2 to 1 lb. product per Acre (0.25 to 0.5 lb. metallic copper/A). Apply at seven day intervals. Use higher rate when conditions favor disease.

*Black Rot (Xanthomonas)*, *Black Leaf Spot (Alternaria)*: Apply 1.06 lbs. product per Acre (0.53 lbs. metallic copper/A). Apply at 7 to 10 day intervals beginning after transplants are set in field or shortly after emergence of field seeded crops or when conditions favor disease development.

**For all uses:** Do not apply more than 5.3 lbs. product per Acre (2.65 lbs. metallic copper/A) per year.

### CARROT

*Cercospora Leaf Spot*: Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Begin application when disease first threatens and repeat at 7 to 14 day intervals as needed depending on disease severity. Do not apply more than 10 lbs. product per Acre (5 lbs. metallic copper/A) per year.

### CELERY, CELERIAC\*

*Cercospora Early Blight*, *Septoria Late Blight*, *Bacterial Blight*: Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Begin applications as soon as plants are first established in the field, repeating at 7 day intervals depending on disease severity and environmental conditions. Do not apply more than 10.6 lbs. product per Acre (5.3 lbs. metallic copper/A) per year.

### CUCURBITS

(Cantaloupe, Cucumber, Honeydew, Muskmelon, Pumpkin, Squash, Watermelon, Casaba, Chayote, Gourds)

*Alternaria Leaf Spot*, *Angular Leaf Spot*, *Anthracnose*, *Downy & Powdery Mildew*, *Gummy Stem Blight*, *Watermelon Bacterial Fruit Blotch (SUPPRESSION)*: Apply 1.5 to 2.1 lbs. product per Acre (0.75 to 2.1 lbs. metallic copper/A). Begin application when conditions are favorable for disease development. Repeat at 5 to 7 day intervals or as needed.

**NOTE:** Crop injury may occur from application at higher rates and shorter intervals. Discontinue use if injury occurs. Do not apply more than 10.5 lbs. product per Acre (5.25 lbs. metallic copper/A) per year.

### EGGPLANT

*Alternaria Blight*, *Anthracnose*, *Phomopsis*: Apply 1.6 lbs. product per Acre (0.79 lbs. metallic copper/A). Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity. Do not apply more than 15.8 lbs. product per Acre (7.9 lbs. metallic copper/A) per year.

### ONION, GARLIC

*Purple Blotch*, *Downy Mildew*, *Bacterial Blight*: Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals as needed depending upon disease pressure. Do not apply more than 12 lbs. product per Acre (6 lbs. metallic copper/A) per year.

### PEA

*Powdery Mildew*: Apply 1.6 lbs. product per Acre (0.79 lbs. metallic copper/A). Begin applications when disease symptoms first appear and repeat at weekly intervals as needed. Do not apply more than 7.9 lbs. product per Acre (3.95 lbs. metallic copper/A) per year.

### PEPPER

*Bacterial Spot*: Apply 1.6 lbs. product per Acre (0.79 lbs. metallic copper/A). When disease threatens, apply in sufficient water for adequate coverage at 3 to 10 day intervals depending on disease severity. Do not apply more than 23.7 lbs. product per Acre (11.85 lbs. metallic copper/A) per year.

**SPINACH**

*Anthracnose, White Rust, Downy Mildew, Cercospora Leaf Spot, Black Leaf Spot, Blue Mold:* Apply 1 to 1.6 lbs. product per Acre (0.5 to 0.79 lbs. metallic copper/A). Begin application when disease first appears or when conditions favor disease development. Repeat at 7 to 10 day intervals as needed. Do not apply more than 7.9 lbs. product per Acre (3.95 lbs. metallic copper/A) per year.

**NOTE:** Flecking may occur on Spinach leaves.

**TOMATO**

*Early & Late Blight, Bacterial Spot, Anthracnose, Gray Leaf Mold, Septoria Leaf Spot:* Apply 1.06 lbs. product per Acre (0.53 lbs. metallic copper/A). Begin when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity. Do not apply more than 34.8 lbs. product per Acre (17.4 lbs. metallic copper/A) per year.

*Bacterial Speck:* Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Begin applications when disease first threatens and repeat at 10 to 30 day intervals or as needed depending on disease severity.

**WATERCRESS\***

*Cercospora Leaf Spot:* Apply 1.06 lbs. product per Acre (0.53 lbs. metallic copper/A). Begin application when plants are first established in the field, repeating at 7 to 14 day intervals depending on disease severity and environmental conditions. Do not exceed four applications per crop. Apply using ground spray equipment at no less than 50 gallons of spray solution per acre. Do not apply more than 4.24 lbs. product per acre (2.12 lbs. metallic copper/A) per year.

\*Except California

**VINES**

**GRAPE**

*Black Rot, Powdery & Downy Mildew, Phomopsis:* Apply 2 to 6 lbs. product per Acre (1 to 3 lbs. metallic copper/A). Begin application at bud break with subsequent applications throughout the season depending upon disease severity. The minimum interval between treatments is 3 days. Do not apply more than 40 lbs. product per Acre (20 lbs. metallic copper/A) per year.

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

**HOPS**

*Downy Mildew:* Apply 1.06 lbs. product per Acre (0.53 lbs. metallic copper/A). Make crown treatment after pruning, but before training. After training, if additional treatments are needed apply 10 days after the initial treatment. Do not apply more than 5.3 lbs. product per Acre (2.65 lbs. metallic copper/A) per year.

**NOTE:** Discontinue use two weeks before harvest.

**KIWI**

*Pseudomonas syringae, Erwinia herbicola, Pseudomonas fluorescens:* Apply 4 lbs. product per Acre (2.1 lbs. metallic copper/A). Apply in 200 gallons of water per Acre. Make subsequent applications at 30 day intervals. A maximum of three applications may be made. Do not apply more than 12.6 lbs. product per Acre (6.3 lbs. metallic copper/A) per year.

**MISCELLANEOUS**

**ATEMOYA\***

*Anthracnose:* Apply 3 to 6.3 lbs. product per Acre (1.5 to 3.15 lbs. metallic copper/A). Make initial application just before flowering and repeat on a 7 day spray interval until just before harvest. Apply in sufficient water for thorough coverage. Do not apply more than 25.2 lbs. product per Acre (12.6 lbs. metallic copper/A) per year.

**CARAMBOLA\***

*Anthracnose:* Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Make initial application just before flowering and repeat on a 7 day spray interval until just before harvest. Apply in sufficient water for thorough coverage. Do not apply more than 21 lbs. product per Acre (10.5 lbs. metallic copper/A) per year.

**CHIVES\***

*Downy Mildew:* Apply 1.06 lbs. product (0.53 lbs. metallic copper/A). Begin application when plants are established in the field. Repeat applications every 7 to 10 days as dictated by disease conditions. If disease pressure is high, use the shorter spray interval. Do not apply more than 5.3 lbs. product per Acre (2.65 lbs. metallic copper/A) per year.

**DILL\***

*Phoma Leaf Spot, Rhizoctonia Foliage Blight:* Apply 1.58 lbs. product per Acre (0.79 lbs. metallic copper/A). Begin applications when plants are first established in the field and repeat at 7 to 10 day intervals or as needed depending upon disease severity and environmental conditions. Do not apply more than 7.9 lbs. product per Acre (3.95 lbs. metallic copper/A) per year.

**DOUGLAS FIR\***

*Rhabdocline Needlecast:* Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Begin applications at bud break and repeat at three to four week intervals. Apply in a tank mix with another registered pesticide if moderate to severe disease pressure is present. Do not apply more than 40 lbs. product per Acre (20.0 lb. metallic copper/A) per year.

**GINSENG**

*Alternaria Leaf Blight, Stem Blight:* Apply 2.1 lbs. product per acre (1.05 lb. metallic copper/A). Use as a tank mix with 2 pounds Rovral® 50W in 100 gallons of water. Begin CHAMPION WETTABLE POWDER-Rovral applications as soon as plants have emerged in Spring. Applications should be repeated every seven days until plants become dormant in Fall. Do not make more than 5 applications at the 2.1 lb. product per Acre rate. If scheduled application is to be made before a rain shower, apply fungicides at least



eight hours before the rain, giving the fungicides time to dry on the plants. Use of a spreader-sticker or sticker is advised. Do not apply more than 10.5 lbs. product per Acre (5.25 lbs. metallic copper/A) per year.

**NOTE:** *Alternaria Leaf & Stem Blight* is most severe in humid conditions such as those found in the dense canopies to 2, 3 and 4 year old Ginseng. It is very important that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.

**GUAVA\***

*Anthraco*se, *Red Algae*: Apply 2.46 lbs. product per Acre (1.23 lbs. metallic copper/A). Make initial application just before flowering and repeat on a 7 day spray interval until just before harvest. Apply in sufficient water for thorough coverage. Do not apply more than 9.84 lbs. product per Acre (4.92 lbs. metallic copper/A) per year.

**LITCHI\***

*Anthraco*se: Apply 2.46 lbs. product per Acre (1.23 lbs. metallic copper/A). Make initial application just before flowering and repeat on a 7 day schedule until just before harvest. Apply in sufficient water for thorough coverage. Do not apply more than 9.84 lbs. product per Acre (4.92 lbs. metallic copper/A) per year.

**LIVE OAK**

**(Texas & Florida Only)** *Ball Moss*: Apply 4 lbs. product per Acre in 100 gallons of water, in the Spring when ball moss is actively growing, using 1-1/2 gallons of spray per foot of tree height. Make sure to wet ball moss tufts thoroughly. A second application may be required after 12 months. Do not apply more than 40 lbs. product per Acre (20.0 lb. metallic copper/A) per year.

**NOTE:** This product may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonry surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

**MACADAMIA**

*Anthraco*se: Apply 4.72 lbs. product per Acre (2.36 lbs. metallic copper/A). Initiate sprays at first sign of flowering and repeat in a 7 day schedule until just before harvest. Apply in sufficient water for thorough coverage.

*Phytophthora Blight (P. capsici)*, *Raceme Blight (Botrytis cinerea)*: Apply 4.72 lbs. product per Acre (2.36 lbs. metallic copper/A). Apply at 7 day intervals during raceme development and bloom periods. Apply in sufficient water for thorough coverage.

**For all uses:** Do not apply more than 18.9 lbs. product per Acre (9.44 lbs. metallic copper/A) per year.

**MAMEY SAPOTE\***

*Anthraco*se, *Algal Leaf Spot*: Apply 4.2 lbs. product per Acre (2.1 lbs. metallic copper/A). Apply when conditions favor disease development. Repeat on 14 to 30 day schedule. Apply in sufficient water for thorough coverage. Do not apply more than 16.8 lbs. product per Acre (8.4 lbs. metallic copper/A) per year.

**PAPAYA\***

*Anthraco*se: Apply 5.26 lbs. product per Acre (2.63 lbs. metallic copper/A). Begin applications before disease appears and repeat at 10 to 14 day intervals. Use higher rates when conditions favor disease. Do not apply more than 42.4 lbs. product per Acre (21.2 lbs. metallic copper/A) per year.

**PARSLEY\***

*Bacterial Blight*: Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Begin applications when plants are first established in the field and repeat at 10 day intervals depending upon disease severity and environmental conditions. Do not apply more than 4 lbs. product per Acre (2 lbs. metallic copper/A) per year.

**PASSION FRUIT\***

*Anthraco*se: Apply 4.72 lbs. product per Acre (2.36 lbs. metallic copper/A). Make initial application just before flowering and repeat on a 7 day spray interval until just before harvest. Apply in sufficient water for thorough coverage. Do not apply more than 18.9 lbs. product per Acre (9.44 lbs. metallic copper/A) per year.

**PERSIMMON**

*Cercospora Leaf Spot*: Apply 2 lbs. product per Acre (1 lb. metallic copper/A). Apply in 100 gallons of water beginning in May/June, during leaf flush, and repeat at 14 day intervals throughout the season depending on disease severity. Do not apply more than 12 lbs. product per Acre (6 lbs. metallic copper/A) per year.

**SUGAR APPLE (ANNONA)\***

*Anthraco*se: Apply 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Make initial application just before flowering and repeat on a 7 day spray interval until just before harvest. Apply in sufficient water for thorough coverage. Do not apply more than 25.2 lbs. product per Acre (12.6 lbs. metallic copper/A) per year.

**SYCAMORE**

*Anthraco*se: Apply 2 to 4 lbs. product per Acre (1.0 to 2.0 lbs. metallic copper/A). Apply as a full cover spray. Apply in 100 gallons of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7 to 10 days later at 10% leaf expansion. Do not apply more than 40 lbs. product per Acre (20 lbs. metallic copper/A) per year.

\*Except California

### GREENHOUSE AND SHADE HOUSE CROPS

Notice to User: This product may be used in greenhouses and shade houses 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 shade houses differ greatly from crops grown under field conditions. Neither the manufacturer nor seller has determined whether or not this product can be used safely on all greenhouse and shade house-grown crops. The user should determine if this product can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e. 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 those crops in pounds per acre or pounds per 100 gallons. Two level tablespoons of this product per 1000 square feet is equivalent to 1 pound per acre. One level tablespoon of this product per gallon of water is equivalent to 1 pound per 100 gallons. This product should be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat at 7 to 14 day intervals as needed; use shorter interval during periods when severe disease conditions persist.

Do not use this product on citrus seedlings less than two years old in greenhouses or shadehouses.

**NOTE:** Rates listed per 1000 square feet.

#### EGGPLANT

*Alternaria Blight, Anthracnose, Phomopsis:* Apply 3 tablespoons product (1.58 lbs. product per Acre (1 lb. metallic copper/A)). Begin application prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as disease pressure dictates. Do not apply more than 15.8 lbs. product per Acre (7.9 lbs. metallic copper/A) per crop cycle.

#### PEPPER

*Bacterial Spot:* Apply 3 tablespoons product (1.58 lbs. product per Acre (1 lb. metallic copper/A)). Begin applications when conditions first favor disease development and repeat at 3 to 10 day intervals as needed depending on disease severity. Do not apply more than 23.7 lbs. product per Acre (11.85 lbs. metallic copper/A) per crop cycle.

#### TOMATO

*Early & Late Blight:* Apply 2 tablespoons. Begin when disease first threatens and repeat at 3 to 10 intervals or as needed depending on disease severity.

*Bacterial Speck:* Apply 2 tablespoons. Begin applications when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity.

*Bacterial Spot, Anthracnose, Gray Leaf Mold, Septoria Leaf Spot:* Apply 2 tablespoons. Begin applications when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity.

**For all uses:** Do not apply more than 34.8 lbs. product per Acre (17.4 lbs. metallic copper/A) per crop cycle.

#### CITRUS (NON-BEARING NURSERY)

*Melanose, Scab, Pink Pitting, Greasy Spot, Brown Rot, Citrus Canker:* Apply 1 tablespoon product (6 lbs. product per Acre (3 lbs. metallic copper/A)). Begin applications when disease threatens. Repeat at 30 day intervals or as needed depending on disease severity. The maximum single rate permitted is 6.3 lbs. product per Acre (3.15 lbs. metallic copper/A). Do not apply more than 25.2 lbs. product per Acre (12.6 lb. metallic copper/A) per crop cycle. The minimum interval between treatments is 7 days.

#### TURFGRASS (Except California)

To control algae in turfgrass, apply 0.14 lb. of this product per 1,000 square feet (equivalent to 6 lbs. product per Acre (3 lbs. metallic copper/A)) in 5 gallons of water. This product may be used alone or in combination with other registered fungicides as a maintenance spray. Observe the most stringent precautions and limitations on the label of each product used in tank mixes. Do not apply more than 18 lbs. product per Acre (9 lbs. metallic copper/A) per year. The minimum interval between treatments is 10 days.

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

#### ORNAMENTALS

Notice to User: Plant sensitivities to this product have been found to be acceptable in specific genera and species listed on this label, however, it is impossible to know sensitivities under all conditions and 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 recommends use upon species not listed on the label. The user should determine if this product can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.

Use this product on container, bench or bed-grown ornamentals in greenhouses, shade houses 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.

For Control of Disease on Ornamentals in Greenhouses, Fields and Nurseries: Apply as a thorough coverage spray using 0.5 lb. of this product per 100 gallons of water. One-half tablespoon of this product per gallon of water is equivalent to 0.5 lb. per 100 gallons. Apply no more than 800 gallons solution per acre dilute per application (equivalent to 0.05 to 2.0 lbs metallic copper per acre) depending on the size of the ornamental. Do not make more than 10 applications at these rates per year (maximum of 20.0 lbs metallic copper per acre per year). **Note:** Compact flowers may take as little as 20 gallons solution per acre while large trees may

take as much as 800 gallons solution per acre. Begin application at first sign of disease and repeat at 7 to 14 day intervals or as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist.

This product may be used alone or in combination with other registered fungicides as a maintenance spray. Observe all precautions and limitations on the label of each product used in tank mixes.

**NOTE:** Do not tank mix this product with Aliette® fungicide unless appropriate precautions have been taken to buffer the spray solution. Severe phytotoxicity may result if adequate precautions are not taken.

<u>Crop</u>	<u>Latin</u>	<u>Disease</u>
Aglaonema	<i>Aglaonema</i>	Bacterial Leaf Spot
Althea (Rose of Sharon)*	<i>Hibiscus syriacus</i>	Bacterial Leaf Spot
Aralia	<i>Dizygotheca elegantissima</i>	Xanthomonas & Cercospora Leaf Spots; Alternaria
Arborvitae*	<i>Thuja spp.</i>	Alternaria Twig Blight, Cercospora Leaf Blight
Azalea <sup>1</sup>	<i>Rhododendron spp.</i>	Cercospora Leaf Spot, Botrytis Blight, Dieback, Phytophthora, Powdery Mildew
Begonia	<i>Begonia semperflorens</i>	Bacterial Leaf Spot ( <i>Xanthomonas spp.</i> , <i>Erwina spp.</i> , <i>Pseudomonas spp.</i> )
Boston Fern	<i>Nephrolepis exalta blightata</i>	Bacterial Leaf Spot
Bougainvillea*	<i>Bougainvillea spectabilis</i>	Anthracoese, Bacterial Leaf Spot
Bulbs (Tulip, Gladiolus)	Miscellaneous	Anthracoese, Botrytis Blight
Camelia	<i>Camellia japonica</i> , <i>C. sasanqua</i>	Anthracoese, Botrytis Blight, Bacterial Leaf Spot
Camphor Tree*	<i>Cinnamomum camphora</i>	Pseudomonas Leaf Spot
Canna	<i>Canna spp.</i>	Pseudomonas Leaf Spot
Carnation <sup>1</sup>	<i>Dianthus spp.</i>	Alternaria Blight, Pseudomonas Leaf Spot, Botrytis Blight
Chinese Tallow Tree*	<i>Sapium sebiferum</i>	Bacterial Leaf Spot ( <i>Xanthomonas spp.</i> , <i>Pseudomonas spp.</i> )
Chrysanthemum <sup>1</sup>	<i>Chrysanthemum morifolium</i>	Septoria Leaf Spot, Botrytis Blight
Cotoneaster	<i>Cotoneaster spp.</i>	Botrytis Blight
Dahlia*	<i>Dahlia pinnata</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
Date Palm*	<i>Phoenix canariensis</i>	Pestalotia Leaf Spot
Dianthus*	<i>Dianthus spp.</i>	Bacterial Spot, Bacterial Soft Rot
Dogwood*	<i>Cornus florida</i>	Anthracoese
Dracaena	<i>Dracaena marginata</i>	Bacterial Leaf Spot
Dumb Cane	<i>Diffeffenbachia</i>	Bacterial Leaf Spot
Dusty Miller*	<i>Senecio cineraria</i>	Bacterial Leaf Spot ( <i>Pseudomonas cichorii</i> )
Easter Lily* <sup>2</sup>	<i>Lilium longiflorum</i>	Botrytis Blight
Echinacea*	<i>Echinacea spp.</i>	Bacterial Leaf Spot ( <i>Pseudomonas cichorii</i> )
Elm "Drake"*	<i>Ulmus parvifolia</i>	Xanthomonas Leaf Spot
Euonymus	<i>Euonymus spp.</i>	Botrytis Blight, Anthracnose
European Fan Palm*	<i>Champaerops numilis</i>	Pestalotia Leaf Spot
Gardenia*	<i>Gardenia jasminoides</i>	Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot
Geranium*	<i>Pelargonium spp.</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
Gladiolus*	<i>Gladiolus spp.</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Bacterial Leaf Blight
Golden Rain Tree	<i>Koelreuteria paniculata</i>	Bacterial Leaf Spot
Grape Ivy	<i>Cissus spp.</i>	Bacterial Leaf Spot
Hibiscus** <sup>4</sup>	<i>Hibiscus rosa sinensis</i>	Bacterial Leaf Spot
Hibiscus, Rose Mallow** <sup>4</sup>	Common Rose Mallow	Bacterial Leaf Spot

Holly Fern*	<i>Cyrtomium falcatum</i>	Pseudomonas Leaf Spot
Honey Locust	<i>Gleditsia triacanthos</i>	Bacterial Leaf Spot
Impatiens*	<i>Impatiens sallerana</i>	Bacterial Leaf Spot
India Hawthorne* <sup>3</sup>	<i>Raphiolepis indica</i>	Anthracnose, Entomosporium Leaf Spot
Ivy (English, Algerian) <sup>1</sup>	<i>Hendera helix, H. canariensis</i>	Xanthomonas Leaf Spot
Ixora*	<i>Ixora coccinea</i>	Xanthomonas Leaf Spot
Juniper (Eastern Red Cedar)*	<i>Juniperus virginiana</i>	Anthracnose
Lantana*	<i>Lantana camera</i>	Bacterial Leaf Spot
Lilac*	<i>Syringa spp.</i>	Cercospora Leaf Spot
Loblolly Bay*	<i>Gordonia lasianthus</i>	Anthracnose
Loquat*	<i>Eriobotrya japonca</i>	<i>Entomosporium maculata, Colletotrichum spp.</i>
Magnolia (Southern)*	<i>Magnolia grandiflora</i>	Algal Leaf Spot, Anthracnose, Bacterial Leaf Spot
Magnolia (Sweet Bay)*	<i>Magnolia virginiana</i>	Anthracnose
Magnolia*	<i>Magnolia soulangiana</i>	Bacterial Leaf Spot
Mandevillas*	<i>Mandevilla spp.</i>	Anthracnose
Marigold*	<i>Tagetes spp.</i>	Alternaria Leaf Spot, Botrytis Leaf & Flower Rot, Cercospora Leaf Spot
Mulberry, Contorted	<i>Morus bombycis</i>	Bacterial Leaf Spot
Mulberry, Weeping*	<i>Morus alba</i>	Bacterial Leaf Spot
Nephtytis	<i>Syngonium podophyllum</i>	Bacterial Leaf Spot
Oak, Laurel	<i>Quercus laurifolia</i>	Algal Leaf Spot ( <i>Cephaleuros virescens</i> )
Oleander*	<i>Nerium oleander</i>	Bacterial Leaf Spot, Fungal Leaf Spot
Pachysandra	<i>Pachysandra procumbens</i>	Volutella Leaf Blight
Pansy*	<i>Viola spp.</i>	Downy mildew
Parlor Palm	<i>Chamaedorea procumbens</i>	Bacterial Leaf Spot
Pear (Flowering)*	<i>Pyrus calleryana</i>	Fireblight, Leaf Spot
Pentas (Egyptian Star)*	<i>Pentas spp.</i>	Bacterial Leaf Spot ( <i>Xanthomomas spp.</i> )
Peony*	<i>Paeonia spp.</i>	Botrytis blight
Periwinkle	<i>Catharanchus roseus, Vinca spp.</i>	Phomopsis Stem Blight
Philodendron*	<i>Philodendron selloum</i>	Bacterial Leaf Spot
Phlox*	<i>Phlox spp.</i>	Alternaria Leaf Spot
Photinia (Red Tip, Red Leaf)	<i>Photinia fraserii, P. glabra</i>	Anthracnose, Entomosporium
Pistachio*	<i>Pistacia chinensis</i>	Anthracnose
Plantain Lily*	<i>Hosta spp.</i>	Bacterial Leaf Spot
Powder Puff Plant*	<i>Callindra spp.</i>	Bacterial Leaf Spot
Purple Osier Willow	<i>Salix purpurea</i>	Anthracnose
Pyracantha	<i>Pyracantha spp.</i>	Fireblight, Scab
Queen Palm*	<i>Arecastrum romanzoffianum</i>	Exosporium Leaf Spot, Phytophthora Bud Rot
Rhododendron	<i>Rhododendron spp.</i>	Alternaria Flower Spot
Rose <sup>1</sup>	<i>Rosa spp.</i>	Powdery Mildew, Black Spot
Snapdragon	<i>Antirrhinum majus</i>	Anthracnose, Dieback, Downy Mildew
Spathe Flower	<i>Spathiphyllum</i>	Bacterial Leaf Spot
Tatarian Honeysuckle	<i>Lonicera tatarica</i>	Bacterial Leaf Spot
Umbrella Tree	<i>Schefflera spp.</i>	Bacterial Leaf Spot
Verbena*	<i>Verbena spp.</i>	Xanthomonas Leaf Spot
Viburnum*	<i>Viburnum odoratissimum, V. suspensum</i>	Anthracnose

Washingtonia Palm*	<i>Washingtonia robusta</i>	Pestalotia Leaf Spot
Weeping Fig	<i>Ficus benjamina l.</i>	Bacterial Leaf Spot
Weeping Willow*	<i>Salix babylonica</i>	Anthraco nose
Yucca (Adam's needle)	<i>Yucca spp.</i>	Cercospora & Septoria Leaf Spot

- 1 Discoloration of foliage and/or blooms has been noted on some varieties. To prevent residues on commercial plants, do not spray just before selling season.
- 2 Apply this product at 3 to 5 lbs. product per Acre (1.5 to 2.5 lbs. metallic copper/A) in 20 to 100 gallons water per Acre. The minimum interval between treatments is 7 days. Do not apply more than 150 lbs. product per Acre (75 lbs. metallic copper/A) per 12 month period. Do not apply any additional copper pesticide to land for 36 months.
- 3 For India Hawthorn use 1 lb. product per 100 gallons or 1 level tablespoon per gallon. Use no more than 400 gallons per Acre per application (equivalent to 2.0 lbs. metallic copper/A). Do not make more than 10 applications at this rate per year (maximum of 20.0 lbs. metallic copper/A per year).
- 4 Hibiscus - Do not apply to plants in flower.

\* Except California

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or 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. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest Environmental Protection Agency regional office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available 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 DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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