55146-115

15-20-2011



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

> OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MAY 2 0 2011

Mr. Nathan P. Ehresman Nufarm Americas Inc. AGT Division 150 Harvester Drive, Suite 200 Burr Ridge, IL 60527

Subject: CHAMP 30 DP EPA Reg. No. 55146-115 Your amendment dated November 12, 2010 Decision Number 442736

Dear Mr. Ehresman:

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. One copy of the label stamped "Accepted" is enclosed for your records. Please submit one copy of the final printed label before the product is released for shipment. If you have any questions regarding this correspondence, please contact Tracy Keigwin of my staff by phone at 703-305-6605 or via e-mail at keigwin.tracy@epa.gov.

Sincerely. m

Tony Kish Product Manager (22) Fungicide Branch Registration Division (7505P)

Enclosure:

"Accepted" label

Champ[®] 30 DP

AGRICULTURAL FUNGICIDE / BACTERICIDE

ACTIVE INGREDIENT:	
Copper Hydroxide* (CAS No. 20427-59-2)	46.1%
OTHER INGREDIENTS:	<u>53.9%</u>
TOTAL:	1 00.0%

*Metallic Copper Equivalent 30.0%

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

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

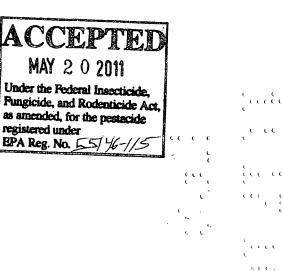
For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300 For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 55146-115 EPA EST. NO. _____ Manufactured For NUFARM AMERICAS INC. AGT DIVISION 150 Harvester Drive Burr Ridge, IL 60527



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NET CONTENTS: _____ Lbs. (____ Kg)



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION / PRECAUCION

Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

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:

· protective eyewear

- · long-sleeved shirt and long pants
- · shoes plus socks
- chemical-resistant gloves (such as Natural Rubber, Selection Category A)

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 material that have been drenched or heavily contaminated with the product's concentrate. **DO NOT** reuse them.

Engineering Controls 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.

USER SAFETY RECOMMENDATIONS

Users Should:

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

FIRST AID						
IF INHALED	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to- mouth if possible. Call a poison control center or doctor for further treatment advice. 					
IF SWALLOWED	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person. 					
IF IN EYES	 Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. 					
IF ON SKIN OR CLOTHING	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. 					
	HOT LINE NUMBER					

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.

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 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 washwater 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. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.



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. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, , shoes plus socks, chemical-resistant gloves , 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 (WPS) for agricultural pesticides 40 CFR part 170. The Worker Protection Standard (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 until sprays have dried.

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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."

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 below just prior to anticipated frost conditions will afford control of ice nucleating bacteria (*Pseudomonas Syringae, Erwina Herbicola and Pseudomonas Fluorescens*) and may therefore provide protection against light frost. Use higher rates when bacterial infection is severe. Not recommended in those geographical areas where weather conditions favor severe frost.

PRODUCT INSTRUCTIONS AND USE PRECAUTIONS

This product can be used with all types of spray equipment. The volume per acre will differ depending on the specific crop and the equipment used. Use this product as per instructions on this label.

MIXING INSTRUCTIONS: Proper mixing of this product with water requires use of a spray tank equipped with agitation.

Mixing Order

- 1. Water: Begin by agitating a thoroughly clean sprayer tank containing one-half the required amount of clean water.
- 2. Agitation: Maintain constant agitation throughout mixing and application.
- 3. Inductor: If an inductor is used, rinse it thoroughly after each application. Add CHAMP 30 DP at a slow rate to prevent system and/or port blockage.
- 4. CHAMP 30 DP: Slowly add the required amount of this product to the sprayer tank.
- 5. Remaining Quantity of Water: Slowly add the remaining volume of clean water.
- 6. Additives: Add any tank mix partners last. Make sure that CHAMP 30 DP is thoroughly mixed and dispersed before addition of additives. If you do not have previous experience with CHAMP 30 DP and additive mixtures, conduct a small-jar test to confirm compatability of tank mixtures prior to full scale use. Follow the most restrictive label limitations for tank mix additives.

Maintain constant agitation during application.

APPLYING SPRAY MIXTURE: The directions given under each crop are for applying dilute spray mixture unless otherwise shown. The amount of this product applied per acre in concentrate and aerial sprays must be the same as the amount applied per acre in dilute sprays. The required amount must be mixed with enough water to thoroughly cover the crop with spray mixture and is to be applied to the point of runoff. The volume of water needed will depend upon the spray equipment used and the size of the crop being sprayed. Read the information below about applying dilute, concentrate, and aerial sprays.

APPLYING DILUTE HIGH-VOLUME SPRAYS: On Field and Vegetable Crops, apply no less than 20 gallons spray mixture per acre. On Small

Fruits and Vines, apply no less than 150 gallons spray mixture per acre. On Tree Crops, apply no less than 400-800 gallons spray mixture per acre. For all other uses, apply no less than 100 – 150 gallons spray mixture per acre.

APPLYING CONCENTRATE GROUND SPRAYS: On Small Fruits and Vines, apply no less than 50 gallons spray mixture per acre. On Tree Crops, apply no less than 50 – 100 gallons spray mixture per acre. For all other uses, apply no less than 30 – 50 gallons spray mixture per acre. **NOTE:** If the application equipment used is capable of low volumes, the spray mix volumes specified above may be decreased as long as the volume applied is within the specifications for the equipment and thorough coverage can be obtained.

APPLYING AERIAL SPRAYS: On Field and Vegetable Crops, apply no less than 3 gallons spray mixture per acre. On Small Fruits and Vines, apply no less than 5 gallons spray mixture per acre. On Tree Crops, apply no less than 10 gallons spray mixture per acre. For all other uses, apply no less than 10 gallons spray mixture per acre.

NOTES:

- 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.
- DO NOT tank mix this product with Aliette® fungicide unless appropriate precautions have been taken to buffer the spray solution or severe phytotoxicity may result.
- This product should not be applied in a spray solution having a pH of less than 6.5 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.
- Reduced effect on pests or crop injury may result from tank mixing this product especially where several products are involved. Unless recommended on this label or by state/local expert, or the user has small scale direct experience, tank mixing should not be undertaken.
- Agricultural chemicals may be reactive with soft metals and some synthetic materials such as plastics, rubbers, etc. When working with
 equipment containing these materials the equipment must be thoroughly flushed with clean water after each day's use.

CHEMIGATION APPLICATION

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.

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.

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.

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.

Chemigation Systems Connected to Public Water Systems

- 1. 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.
- 2. 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. For nonpublic water sprinkler chemigation systems, the system must contain a functional checkvalve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. 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 shutdown.
- 5. 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. For non-public water sprinkler chemigation systems, 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 windspeed favors drift beyond the area intended for treatment,

For all chemigation systems, use a pesticide supply tank equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker-spreaders, insecticides, nutrients, etc. Observe all precautions and limitations on the label of all products used in the mixtures. For fixed position irrigation systems such as center pivot, big gun, etc., apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system. For moving systems, the pesticide should be applied continuously. In all cases, thorough coverage of the crop should be achieved.

NOTE: IRRIGATION SYSTEMS AND ASSOCIATED PIPING SHOULD BE THOROUGHLY FLUSHED WITH CLEAN WATER FOLLOWING APPLICATION OF COPPER BASED FUNGICIDES. FLUSHING MUST BE DONE IN A MANNER WHICH WILL NOT WASH THE PRODUCT FROM THE FOLIAGE AND REDUCE DISEASE CONTROL.

No additional surfactants are needed unless specified for an individual crop. Add this product to the spray tank followed by any sticker-

spreaders, insecticides, nutrients, etc. Observe all cautions and limitations on the label of all products used in mixtures. The specific instructions given on this label are based on general applications and circumstances. The recommendations of the State Agricultural Extension Service should be closely followed as to timing, frequency and number of sprays per season.

NOTE: APPLICATION TO PLANT SURFACES SPRAYED WITH AND WHICH HAVE LOW pH CHEMICAL RESIDUE MAY ALSO RESULT IN CROP INJURY.

Sprinkler Chemigation System Requirements

- 1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- 2. The pesticide injection pipeline 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 dosed, 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.

Floor (Basin), Furrow and Border Chemigation System Requirements

- 1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.
- 2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - a. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
 - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 - c. 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.
 - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
 - e. 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.
 - f. 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.

Drip (Trickle) Chemigation System Requirements

- 1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- 2. The pesticide injection pipeline 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 inter-locking 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.

BERRIES, VINES AND HOPS

DISFASE	RATE / ACRE (LBS OF PRODUCT)		Minimum Retreatment	USEINSTRUCTIONS
	Per Application	Maximum Annual	Interval (days)	
Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, and Pseudomonas Blight.	1.75			Apply delayed dormant spray after training in Spring. Make Fall spray application after harvest. Add 1 quart of crop oil per acre.
Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, and Yellow Rust.	0.75	33.3	7	Apply when leaf buds begin to open and repeat when flower buds show white. Add 1 quart of crop oil per acre. NOTE : Crop injury may occur if applied to foliage under certain conditions such as hot or prolonged moist periods. Discontinue applications if signs of crop injury appear.
Bacterial Canker	1.75-3.5			Make first application before the Fall rains, preferably the first week in October and a second application four weeks later.
Fruit Rot, Phomopsis Twig Blight	1.0-2.25	28	7	Begin dormant applications when bloom buds begin to swell. Make additional applications at 10 to 14 day intervals prior to blooms opening.
Fruit Rot	3.5	42	7	Apply beginning in late bloom. One or two applications made at 10 to 14 day intervals may be required, depending on disease pressure.
Rose Bloom				Make three applications at 10 to 14 day intervals as soon as symptoms are observed.
Bacterial Stem Canker				Apply post harvest and again in the Spring before bud burst. One or two additional applications at 10 to 14 day intervals may be required depending on disease severity.
Tip Blight (Monilinia), Stem Blight, Leaf Blight, Red Leaf Spot				Apply as a delayed dormant spray in the Spring. Repeat at 10 to 14 day intervals as needed through prebloom.
Upright Dieback				Apply as a prebloom application. A second application can be made 10 to 14 days later if required.
Anthracnose, Leaf Spot	4.25	53.3	10	Make three applications starting after harvest, before bloom and after petal fall. Continue on a 10 to 14 day schedule during wet conditions in the Spring.
Black Rot, Phomopsis, Powdery Mildew, Downy Mildew	0.75-1.75	66.7	3	Begin application at bud break with additional applications made throughout the season depending on disease severity. NOTE: Slight to severe foliage injury may occur in copper-sensitive varieties such as Concord, Delaware, Niagara and Rosette. Use lower rate of this product and test for sensitivity when treating these varieties or others known to be sensitive to copper. Add hydrated lime at a rate of 1 to 3 pounds per 100 gallons of spray solution to decrease the severity of phytotoxicity. Mix this product and water first before adding lime or
	Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, and Pseudomonas Blight. Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, and Yellow Rust. Bacterial Canker Fruit Rot, Phomopsis Twig Blight Fruit Rot Rose Bloom Bacterial Stem Canker Tip Blight (Monilinia), Stem Blight, Leaf Blight, Red Leaf Spot Upright Dieback Anthracnose, Leaf Spot	DISEASE(LBS:OF PRDISEASEPer Application.Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, and Pseudomonas Blight.1.75Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, and Yellow Rust.0.75Bacterial Canker1.75-3.5Fruit Rot, Phomopsis Twig Blight Bacterial Stem Canker1.0-2.25Tip Blight (Monilinia), Stem Blight, Leaf Blight, Red Leaf Spot Upright Dieback3.5Anthracnose, Leaf Spot4.25	(LBS:OF PRODUCT)DISEASEMaximum AnnualLeaf Spot, Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, and Pseudomonas Blight.1.7533.3Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, and Yellow Rust.0.7533.3Bacterial Canker1.75-3.528Fruit Rot, Phomopsis Twig Blight1.0-2.2528Fruit Rot3.542Tip Blight (Monilinia), Stem Blight, Leaf Blight, Red Leaf Spot3.542Upright Dieback4.2553.3Black Rot, Phomopsis,0.75 1.7566.7	(LBS: OF PRODUCT)Retreatment Interval (days)Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, and Pseudomonas Blight.1.7533.37Leaf Spot, Cane Spot, Purple Blotch, Anthracnose, and Yellow Rust.0.7533.37Bacterial Canker1.75-3.5287Fruit Rot, Phomopsis Twig Blight1.0-2.25287Fruit Rot3.5427Tip Blight (Monilinia), Stem Blight, Leaf Blight, Red Leaf Spot3.5427Black Rot, Phomopsis, Anthracnose, Leaf Spot4.2553.310

BERRIES, VINES AND HOPS (continued)

CROP	DISEASE	RATE / A (LBS:OF PR		Minimum Retreatment Interval	USEINSTRUCTIONS
		Per Application	Annual	(days)	
HOPS	Downy Mildew	0.75	8.83	10	Apply as a fungicide crown treatment after pruning, but before training. After training, additional fungicide treatments are needed at about 10 day intervals. NOTE: Discontinue use 2 weeks before harvest.
	Leaf and Cane Spot, Purple Blotch, Anthracnose, Yellow Rust, Pseudomonas Blight	1.75	33.3	7	Apply as a delayed dormant spray after training in the Spring. Make a Fall application after harvest. Add one quart of crop oil per acre.
RASPBERRY	Leaf and Cane Spot, Purple Blotch, Anthracnose, Yellow Rust	0.75			Apply when leaf buds begin to open and repeat when flower buds show white. Add one quart of crop oil per acre. NOTE: Crop injury may occur if applied to foliage under certain conditions such as hot or prolonged moist periods. Discontinue applications if signs of crop injury appear.
STRAWBERRY	Angular Leaf Spot (Xanthomonas), Leaf Blight, Leaf Scorch, Leaf Spot	0.75-1.25	27.3	7	Begin application when plants are established and continue on a weekly schedule throughout season. Apply in at least 20 gallons of water. NOTE: Discontinue applications if signs of phytotoxicity appear.

FIELD CROPS

CROP				Minimum Retreatment	USEINSTRUCTIONS	
		Per Application	Maximum Annual	Intervali (days)		
ALFALFA	Cercospora & Leptosphaerulina Leaf Spots	0.75	3.73	30	Apply 10 to 14 days before each harvest or earlier if disease threatens. NOTE: Spray injury may occur with sensitive varieties such as Lahontan.	
CORN (Field, Pop, Sweet)	Bacterial Stalk Rot	0.5-1.75	14	7	Begin applications when disease first appears. Repeat applications on a 7 to 10 day interval.	
PEANUT	Cercospora Leaf Spot	0.75-1.25	15.8	7	Begin spraying 35 to 40 days after planting or when disease symptoms first appear. Continue applications at 10 to 14 day intervals. One to two quarts of six pounds per gallon flowable sulfur may be added. Reduce spray interval to 7 days during humid weather. Use higher rates when conditions favor disease.	
ΡΟΤΑΤΟ	Early Blight & Late Blight	0.5-1.75	83.3	5	Apply at 7 to 10 day intervals starting when plants are 2 to 6 inches high. Apply the lower rate in those locations where disease is light and the higher rate where disease is severe. Tank mixing this product with other registered potato fungicides will improve disease control under severe disease conditions.	
SUGARBEET	Cercospora Leaf Spot	0.75-2.0	26.2	10	Start spraying when disease threatens and continue for 4 to 5 applications. Spray every 10 to 14 days depending on weather conditions and depending on disease severity.	
WHEAT, BARLEY, OATS	Septoria Leaf Blotch & Helminthosporum Spot Blotch	0.5-0.75	3.53	10	Make first application by early heading and follow with second application 10 days later or as necessary. Use higher rates when conditions favor disease.	

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TREE CROPS

CROP	DISEASE	RATE / AC	1917年1月1日に、「日本に認知ない」	Minimum Retreatment	USE INSTRUCTIONS
CKOr	PISTORE	Per Application	Maximum Annual	Interval (days)	
	Coryneum Blight (Shot Hole), Bacterial Canker, Blossom Brown Rot, Bacterial Blast (<i>Pseudomonas</i>)	3.5-7.0			Use as a dormant application before foliage buds swell. For CHERRIES, where disease is severe, an additional application at leaf fall may be required. ALMOND ONLY: for Bacterial Blast control in sprinkler irrigated orchards or where disease is severe, apply 0.5 pounds per acre post-bloom, at 2 week intervals or just prior to sprinkling. NOTE: NePlus, Peerless, and Mission varieties of almonds are susceptible to injury from post bloom foliar applications.
ALMOND, APRICOT, CHERRY, PLUM,	Coryneum Blight (Shot Hole), Blossom Brown Rot	2.5-3.5 (Almonds) 3.5-5.0 (All Others)	60	7	Make early bloom (popcorn) application prior to full bloom. DO NOT apply after full bloom due to the potential occurrence of injury. Use the higher rates when rainfall is heavy and disease pressure is high.
PRUNE	Black Knot (Plum)	1.75-3.5			Make application at bud swell up to early bloom for early season disease suppression. NOTE: DO NOT use apply after full bloom due to the potential for crop injury.
	Cherry Leaf Spot (Sour Cherries Only)	1.25 2.25-3.5			Make applications at petal fall. Make 1 to 2 additional applications after petal fall, if necessary. DO NOT use on sweet cherries or to the English Morello variety as severe injury will occur. Add 1 to 3 pounds of hydrated lime per pound of this product to reduce crop injury. NOTE: Post bloom applications have the potential to cause moderate to severe injury in the form of leaf spotting and defoliation.
	Anthracnose, European Canker, Blossom Blast, Shoot Blast (<i>Pseudomonas</i>)	5.25-7.0		5	Apply before Fall rains. NOTE: Due to the potential for discoloration on yellow varieties, pick before spraying.
	Fire Blight, Apple Scab	3.5-7.0			Make application as a full cover spray between silver- tip and green-tip. Only one (1) application is allowed on pome fruit during fall/late dormant, and between silver-tip and green-tip. NOTE: Discontinue use when green-tip reaches ½ inch as late applications could lead to moderate or severe crop injury.
APPLE	Apple Scab	0.75-1.75	53.5		Extended Spray Schedule: Continue applications when fruit finish is not an issue. Make applications at 5 to 7 day intervals or as needed between green tip (1/2 inch) and first cover spray.
	Fire Blight	0.5-0.75			NOTE: These applications are not intended for fruit going to fresh market due to the potential for crop injury (fruit russetting). Add 1 to 3 pounds of hydrated lime per pound of this product to reduce crop injury.
	Crown and Collar Rots	1.75 (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 Fall after harvest each year. NOTE: DO NOT use if soil pH is below 5.5 or copper toxicity may result.
AVOCADO	Anthracnose, Blotch, Scab	3.5-5.25	63	14	Apply when bloom buds begin to swell. Make applications at 14-day intervals. Continue applications at monthly intervals for 5 to 6 applications. Use higher rate when conditions favor disease.

TREE CROPS (Continued)

CROP	DISEASE	RATE / AG		Minimum Retreatment	USEINSTRUCTIONS
		Per Application	Maximum Annual	Interval (days)	
	Melanose, Scab, Algal Spot	1.75-5.0			Apply, depending on disease severity, as a pre-bloom and post-bloom spray.
	Greasy Spot, Pink Pitting	0.75-2.5			Make summer applications on new growth/flush. Repeat applications to new growth/flush when disease pressure is severe. Apply using higher rates when conditions favor disease.
	Alternaria Brown Rot Spot	1.75-3.5			Make applications to susceptible varieties when the first spring flush appears and each new flush afterwards. Start applications to fruit after 2/3 of the petals have fallen. Repeat on a 21-day spray schedule or as needed.
	Phytophthora Brown Rot, Septoria Spot	1.75-3.5			Begin applications in fall before or just after the first rain and continue as needed. BROWN ROT ONLY: Apply to skirts of trees to a height of at least 4 feet. SEPTORIA SPOT/ALREADY BROWN ROT INFECTED FRUIT: Apply to entire tree. Apply also to bare ground one foot beyond skirt.
			42	7	NOTE: California: Add 1/3 to 1 pound of high quality lime per pound of product in areas subject to copper injury.
CITRUS	Phytophthora Foot Rot	0.5 (in 1 quart of water, Tre-Hold, or latex paint)			Paint trunks of trees from the soil surface to the lowest scaffold limbs. Apply in May prior to summer rains and/or in the fall prior to wrapping trees for freeze protection. Treatment protects trees for up to 1 year, but does not cure trees currently infected. NOTE: Due to wash off, retreatment will be needed in areas where microjet or low volume irrigation hit the tree trunk.
		2.0-5.0			Make applications to fresh flushes. 7 to 14 days after shoots begin to grow. Make additional applications to young fruit. The number and timing of applications is dependent on disease severity. Make applications to each flush of new growth when disease pressure is severe.
	Citrus Canker (Suppression)	1.25-8.0 Florida Only			Make applications to fresh flushes. Repeat at 14-21 day intervals, or more often if needed, depending on disease pressure and environmental conditions. During dry weather and low disease pressure, rates may be reduced (1.25-2.5 lbs/A), whereas, wet weather and high disease pressure may require higher rates (4.0-8.0 lbs/A). It is important to protect all subsequent leaf flushes throughout the year. Young fruit may require an additional application.
	NOTE: This product has the potent	tial for being phytotoxic	c to young tende	er flush when it is	applied to citrus seedlings grown in greenhouses or shade houses.
CITRUS (Field Nursery Grown)	Melanose, Scab, Pink Pitting, Greasy Spot, Brown Rot, Citrus Canker (Suppression)	1.75-3.5	42	7	Make applications at 28-day intervals or as needed depending on disease pressure.

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## TREE CROPS (continued)

| CROP                | DISEASE                                                                                                                                          | RATE / A                                |                   | Minimum<br>Retreatment | USE INSTRUCTIONS                                                                                                                                                                                                                                                                                                       |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                                                                                                                  | Per Application                         | Maximum<br>Annual | Interval<br>(days)     |                                                                                                                                                                                                                                                                                                                        |
|                     | Bacterial Blight                                                                                                                                 |                                         |                   |                        | Apply as a postharvest spray. In seasons of heavy rainfall, apply another spray when three-fourths of the leaves have dropped. Add 1 pint of superior type oil per 100 gallons of water.                                                                                                                               |
| FILBERT             | Eastern Filbert Blight                                                                                                                           | 7.0-10.5                                | 80                | 14                     | Apply in sufficient water to obtain thorough coverage. Make initial application at budswell to budbreak. Additional sprays should be made on a 10 to 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. |
| KIWIFRUIT           | Erwinia herbicola,<br>Pseudomonas syringae,<br>Pseudomonas fluorescens                                                                           | 3.5<br>(in 200 gallons of<br>water)     | 8.83              | <del>10</del> 30       | Make monthly applications with a maximum of 3 applications per season.                                                                                                                                                                                                                                                 |
| MACADAMIA           | Anthracnose                                                                                                                                      | 2.5-4.0                                 | 31.5              |                        | Begin applications at first sign of flowering and repeat on a weekly spray schedule until just before harvest. Apply in sufficient water for thorough coverage.                                                                                                                                                        |
| MACADAMIA           | Phytophthora Blight ( <i>P. capsici</i> ),<br>Raceme Blight,                                                                                     | 1.25-2.4                                | 31.5              | 7                      | Make applications during raceme development and bloom periods. Apply in sufficient water for thorough coverage.                                                                                                                                                                                                        |
| OLIVE               | Peacock Spot, Olive Knot                                                                                                                         | 3.5-5.25                                | 60                | 30                     | Make first application before Winter rains fall. A second application in early Spring should be made if disease is severe.                                                                                                                                                                                             |
|                     | Leaf Curl, Coryneum Blight (Shot<br>Hole), Bacterial Canker, Bacterial<br>Blast ( <i>Pseudomonas</i> ), Bacterial<br>Spot ( <i>Xanthomonas</i> ) |                                         |                   | 7                      | Make first application before fall rains and the second application at late dormant. LEAF CURL: Late dormant application must be made before leaf buds swell. Add an agricultural spray oil, if needed.                                                                                                                |
| PEACH,<br>NECTARINE | Blossom Brown Rot, Leaf Curl,<br>Coryneum Blight (Shot Hole)                                                                                     | 3.5-5.25                                | 60                |                        | Apply as a full cover spray at pink bud. Application at this time affords some control of Leaf Curl and Coryneum Blight.                                                                                                                                                                                               |
|                     | Bacterial Spot                                                                                                                                   | 0.5                                     |                   |                        | Apply post bloom applications at first and second cover sprays.<br>NOTE: DO NOT apply 3 weeks before harvest. Cover spray applications have the potential to result in leaf spotting.                                                                                                                                  |
| PEAR                | Fire Blight                                                                                                                                      | 0.5                                     | 53.3              | 5                      | Apply at 5 day intervals throughout bloom period.<br>NOTE: Russetting could occur in copper sensitive varieties or on any variety if excessive rates are uses.                                                                                                                                                         |
|                     | Pseudomonas Blossom Blast                                                                                                                        | 5.25-7.0                                |                   |                        | Apply before Fall rains and again at dormant before Spring growth starts. Only one (1) application is allowed on pome fruit during fall/late dormant, and between silver-tip and green-tip.                                                                                                                            |
|                     | Shuck Rot, Kernel Rot                                                                                                                            |                                         |                   |                        | Suppression Only: Apply at 2 to 4 week intervals when kernel growth begins through shuck opening.                                                                                                                                                                                                                      |
| PECAN               | (Phytophthora cactorum),<br>Zonate Leaf Spot<br>(Cristulariella pyramidalis)                                                                     | 0.75-1.75                               | 28                | 14                     | Apply in sufficient water to ensure thorough coverage. The minimum interval between treatments is 14 days. DO NOT apply more than 5.6 lbs. product per acre (2.1 lbs. metallic copper/A) in a single application. DO NOT apply more than 22.4 lbs. product per acre (8.4 lbs. metallic copper/A) per year.             |
|                     | Ball Moss, Spanish Moss                                                                                                                          | 2.5-3.5<br>(in 100 gallons of<br>water) |                   |                        | Make applications in the spring when moss is actively growing. Use 1 ½ gallons of spray per foot of tree height. Wet moss tufts thoroughly. Add a non-ionic surfactant for improved control. Make a second application after 12 months, if needed.                                                                     |

## TREE CROPS (continued)

| CROP      | DISEASE                                                                                                                     | RATE / A<br>(LBS OF PR | ODUCT)            | Minimum<br>Retreatment<br>Interval |                                                                                                                                                                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                                                                                                             | Per Application        | Maximum<br>Annual | (days)                             |                                                                                                                                                                                                                                                                                                                                   |
| PISTACHIO | Botrytis Blight, Botryosphaeria<br>Panicle and Shoot Blight,<br>Septoria Leaf Blight, Late Blight<br>(Alternaria alternata) | 1.75-3.5               | 28                | 14                                 | Apply beginning at budswell. Repeat at 14 to 28 day intervals depending on disease conditions. If disease conditions are severe, use the high rate and the short spray interval.                                                                                                                                                  |
| QUINCE    | Fire Blight                                                                                                                 | 0.5                    | 53.3              | 5                                  | Apply at 5 day intervals throughout the bloom period. Apply in sufficient water to provide thorough coverage.                                                                                                                                                                                                                     |
| WALNUT    | Walnut Blight                                                                                                               | 3.5-5.25               | 107               | 7                                  | Apply first spray at early pre-bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage as needed. Additional applications may be necessary when frequent rainfall occurs.<br>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 <i>Xanthamonas</i> bacteria are present.                                                                                                                                                                                               |

## TROPICAL CROPS

| CROP   |                                                                                      | RATE / ACRE<br>(LBS:OF PRODUCT)   |                   | Minimum<br>Retreatment | USE INSTRUCTIONS                                                                                                                                                                                                                                                                                                                                    |
|--------|--------------------------------------------------------------------------------------|-----------------------------------|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | UISEASE                                                                              | Per Application                   | Maximum<br>Annual | (days)                 |                                                                                                                                                                                                                                                                                                                                                     |
|        | Sigatoka (Black & Yellow)                                                            | 0.75<br>(in 3 gallons of water)   |                   | _                      | Apply by air. Add an agricultural spray oil, if needed. Apply on a 14 day schedule throughout the wet season. Apply at 21 day intervals during dry periods.                                                                                                                                                                                         |
| BANANA | Black Pitting                                                                        | 1.75<br>(in 100 gallons of water) | 63                | (                      | 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.                                                                                                                                                                                                    |
| CACAO  | Black Pod                                                                            | 0.75-3.75                         | 52.5              | 14                     | Begin applications at the start of the rainy season and continue while infection conditions persist. Sprays on 14 to 21 day intervals depending on disease severity. For drier areas, make 2 to 4 applications during critical infection periods and at long intervals according to disease pressure incidence and planting density.                |
|        | Coffee Berry Disease                                                                 | 2.5-3.5                           |                   |                        | Apply first spray after flowering and before onset of long rains and then at 21 to 28 day                                                                                                                                                                                                                                                           |
|        | Bacterial Blight<br>(Pseudomonas syringae)                                           | 2.5-3.5                           |                   |                        | Begin spray program before onset of the long rains and continue throughout the rainy season at 14 to 21 day intervals. The critical time of spraying to control this disease is just before, during, and after flowering(s), especially when coinciding with wet weather. Use the higher rates when rainfall is heavy and disease pressure is high. |
| COFFEE | Leaf Rust ( <i>Hemileia</i><br>vastatrix)                                            | 0.75-1.75                         | 42                | 14                     | Apply before the onset of rain and then at 21 day intervals while the rains continue. Use higher rates when rainfall is heavy and disease pressure is high.                                                                                                                                                                                         |
|        | Iron Spot (Cercospora<br>coffeicola) and Pink<br>Disease (Corticium<br>salmonicolor) | 0.75                              |                   |                        | Apply as a concentrate or dilute spray. Begin treatment at the start of wet season and continue at monthly intervals for 3 applications.                                                                                                                                                                                                            |
| GUAVA  | Anthracnose, Red Algae                                                               | 1.25-2.0                          | 16.4              | 7                      | Apply beginning just prior to flowering and repeat weekly until just prior to harvest. Use sufficient water for thorough coverage.                                                                                                                                                                                                                  |
| LITCHI | Anthracnose                                                                          | 1.25-2.0                          | 16.4              | 7                      | Apply beginning just prior to flowering and repeat weekly until just prior to harvest. Use sufficient water for thorough coverage.                                                                                                                                                                                                                  |

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## TROPICAL CROPS (Cont'd)

| CROP                                | DISEASE                      | RATE / ACRE<br>(LBS OF PRODUCT) |                   | Minimum<br>Retreatment | USE INSTRUCTIONS                                                                                                                                                                                                                                                           |
|-------------------------------------|------------------------------|---------------------------------|-------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OKO                                 |                              | Per Application                 | Maximum<br>Annual | Interval<br>(days)     |                                                                                                                                                                                                                                                                            |
| MAMEY SAPOTE                        | Anthracnose, Algal Leaf Spot | 2.5-3.5                         | 28                | 14                     | Apply when conditions favor disease development. Repeat at 14 to 30 day intervals as needed.                                                                                                                                                                               |
| MANGO<br>(Florida & Puerto<br>Rico) | Anthracnose                  | 2.0-4.0                         | 160               | 7                      | Apply monthly after fruit set until harvest.                                                                                                                                                                                                                               |
| ΡΑΡΑΥΑ                              | Anthracnose                  | 1.75-4.25                       | 70.7              | 7                      | Apply beginning before disease is expected to appear. Repeat at 10 to14 day intervals under light disease pressure or at 5 to 7 day intervals during periods of heavy rainfall and severe disease pressure. Add a suitable spreader-sticker during periods of heavy rains. |
| PASSION FRUIT                       | Anthracnose                  | 2.5-4.0                         | 31.5              | 7                      | Apply beginning just prior to flowering and repeat weekly. Use sufficient water for thorough coverage.                                                                                                                                                                     |
| SUGAR APPLE<br>(Annona)             | Anthracnose                  | 5.25-7.75                       | 42                | 7                      | Apply beginning just prior to flowering and repeat weekly. Use sufficient water for thorough coverage.                                                                                                                                                                     |

## VEGETABLE CROPS

| CROP                                                                                                                                    | DISEASE                                                                                                                                                            | RATE:/ A<br>(LBSIOF PRO |      | Minimum<br>Retreatment<br>Interval<br>(days) |                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BEAN<br>(Dry, Green)                                                                                                                    | Brown Spot, Bacterial Blight (Halo<br>& Common)                                                                                                                    | 0.5-1.25                | 15.8 | 7                                            | For protective sprays, apply first application when plants are 6 inches high. Apply on 7 to 14 day schedule depending on local conditions. Adjust rates depending on disease severity.                                                                     |
| CARROT                                                                                                                                  | Alternaria Leaf Spot, Carrot<br>Blight(Cercospora)                                                                                                                 | 0.75                    | 16.7 | 7                                            | When disease threatens apply at 7 to 14 day intervals depending on disease severity.                                                                                                                                                                       |
| CELERY,<br>CELERIAC                                                                                                                     | Cercospora Early Blight, Septoria<br>Late Blight, Bacterial Blights                                                                                                | 0.75                    | 17.7 | 7                                            | Apply as soon as plants are first established in the field, then every 5 to 7 days depending<br>on disease severity and weather.                                                                                                                           |
| CRUCIFERS<br>Broccoli, Brussels<br>Sprout, Cabbage,<br>Cauliflower, Kale,<br>Collard Greens,<br>Mustard Greens,<br>and Turnip<br>Greens | Black Rot ( <i>Xanthomonas</i> ), Black<br>Leaf Spot ( <i>Alternaria</i> ), Downy<br>Mildew                                                                        | 0.5-0.75                | 8.83 | 7                                            | Apply at 7 day intervals after transplants are set in the field. Use higher rate when conditions favor disease.<br><b>NOTE:</b> Reddening of older leaves may occur on Broccoli at the higher rate and flecking of wrapper leaves may occur on Cabbage.    |
| CUCURBITS<br>Cantaloupe,<br>Casaba,<br>Chayote,<br>Cucumber, Gourd,<br>Honeydew,<br>Muskmelon,<br>Pumpkin, Squash,<br>and Watermelon    | Alternaria Leaf Spot, Angular Leaf<br>Spot, Anthracnose, Downy Mildew,<br>Powdery Mildew, Gummy Stem<br>Blight, Watermelon<br>Bacterial Fruit Blotch (Suppression) | 0.5-1.25                | 17.5 | 75                                           | Apply beginning when conditions are favorable for disease development and repeat at 5 to 7 day intervals, as needed depending on disease severity.<br>NOTE: Crop injury may occur from application at shorter intervals. Discontinue use if injury occurs. |
| EGGPLANT                                                                                                                                | Alternaria Blight, Anthracnose,<br>Phomopsis                                                                                                                       | 0.75                    | 26.3 | 7                                            | Use before disease appears. Repeat at 7 to 10 day intervals or as needed depending on disease severity.                                                                                                                                                    |
| ENDIVE,<br>ESCAROLE                                                                                                                     | Downy Mildew                                                                                                                                                       | 0.5-0.75                | 26.7 | 5                                            | Begin treatment when disease first appears and repeat every 7 to 10 days as needed to suppress disease. The minimum interval between treatments is 5 days.                                                                                                 |

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| CROP                       | DISEASE                                                                   | RATE / ACRE<br>(LBS OF PRODUCT) |                   | Minimum<br>Retreatment | USEINSTRUCTIONS                                                                                                                                            |
|----------------------------|---------------------------------------------------------------------------|---------------------------------|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                                                           | Per Application.                | Maximum<br>Annual | Interval<br>(days)     |                                                                                                                                                            |
| GARLIC,<br>LEEK,<br>ONION  | Purple Blotch & Downy Mildew,<br>Bacterial Blight                         | 0.75                            | 20                | 7                      | Apply when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals. This product can be phytotoxic to leaves.                                    |
| LETTUCE                    | Downy Mildew                                                              | 0.5-0.75                        | 26.7              | 5                      | Begin treatment when disease first appears and repeat every 7 to 10 days as needed to suppress disease.                                                    |
| OKRA                       | Anthracnose, Bacterial Leaf Spot, Leaf<br>Spots, Pod Spot, Powdery Mildew | 0.75-1.75                       | 17.5              | 5                      | When disease threatens, apply in sufficient water for adequate coverage at 5 to 10 day intervals depending on disease severity.                            |
| PEA                        | Powdery Mildew                                                            | 0.5-1.25                        | 13.2              | . 7                    | Begin spray treatment when disease symptoms first appear. Adjust rates according to disease severity. Repeat applications at weekly intervals.             |
| PEPPER                     | Anthracnose, Bacterial Spot,<br>Cercospora Leaf Spot                      | 0.75-1.25                       | 39.5              | 3                      | Begin spray treatment when disease symptoms first appear and at 7 to 10 day intervals depending on disease severity.                                       |
| SPINACH                    | Anthracnose, Cercospora Leaf Spot,<br>Downy Mildew, White Rust, Blue Mold | 0.75-1.25                       | 13.2              | 7                      | Begin treatment when disease first appears and repeat every 7 to 10 days as needed to suppress disease. NOTE: Flecking may occur on spinach leaves.        |
| TABLE BEET,<br>BEET GREENS | Cercospora Leaf Spot                                                      | 0.75-2.0                        | 26.2              | 10                     | Apply when conditions favor disease. Repeat treatment at 10 to 14 day intervals as needed. Add an agricultural spray oil, if needed.                       |
| TOMATO<br>(for processing) | Early Blight, Late Blight<br>Bacterial Speck, Bacterial Spot,             | 0.75-1.75                       | 5-1 75            | 3                      | When disease threatens, apply at 5 to 10 day intervals, more frequently when disease is                                                                    |
| (for fresh market)         | Anthracnose, Gray Leaf Mold, Septoria<br>Leaf Spot                        |                                 | 26.7              |                        | severe.                                                                                                                                                    |
| WATERCRESS                 | Cercospora Leaf Spot                                                      | 0.75                            | 7.07              | 7                      | Apply when plants are established in the field. Repeat at 7 to 14 day intervals up to four applications per crop in at least 50 gallons of water per acre. |

## VEGETABLE CROPS (Cont'd)

## MISCELLANEOUS

| CROP      | DISEASE                                        | RATE / ACRE<br>(LBS OF PRODUCT) |                   | Minimum<br>Retreatment |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|------------------------------------------------|---------------------------------|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                                | Per Application                 | Maximum<br>Annual | Interval.<br>(days)    |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ΑΤΕΜΟΥΑ   | Anthracnose                                    | 1.25-2.0                        | 42                | 7                      | Apply just prior to flowering and repeat weekly until just prior to harvest. Use sufficient water for thorough coverage.                                                                                                                                                                                                                                                                                               |
| CARAMBOLA | Anthracnose                                    | 2.5-3.5                         | 35                | 7                      | Apply just prior to flowering and repeat weekly until just prior to harvest. Use sufficient water for thorough coverage.                                                                                                                                                                                                                                                                                               |
| CHIVES    | Downy Mildew                                   | 0.75                            | 8.83              | 7                      | Apply when plants are established in the field. Repeat at 7 to 10 day intervals as needed.                                                                                                                                                                                                                                                                                                                             |
| DILL      | Phoma Leaf Spot, Rhizoctonia<br>Foliage Blight | 0.75-1.25                       | 13.2              | 7                      | Apply when plants are established in the field. Repeat at 7 to 10 day intervals as needed.                                                                                                                                                                                                                                                                                                                             |
| GINSENG   | Alternaria Leaf, Stem Blight                   | 1.0-1.75                        | 17.5              | 7                      | This product may be applied as a tank mix with two pounds Iprodione 50WP in 100 gallons of water per acre. Begin Iprodione 50WP/Champ 30 DP applications as soon as plants have emerged in Spring. Applications should be repeated every 7 days until plants become dormant in Fall. Apply fungicides at least 8 hours before rain, giving the fungicides time to dry on the plants. Use a spreader-sticker if needed. |
|           |                                                |                                 |                   |                        | <b>NOTE:</b> Alternaria Leaf & Stem Blight is most severe in humid conditions such as those found in the dense canopies of two, 3 and 4 year old ginseng. Complete and thorough spray coverage is required for control.                                                                                                                                                                                                |

## MISCELLANEOUS (Cont'd)

| CROP      | DISEASE                                                | RATE //A<br>(LBS OF PR)<br>Per Application | A STATE AND A STAT | Minimum<br>Retreatment<br>Interval<br>(days) | USEINSTRUCTIONS                                                                                                                     |
|-----------|--------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| PARSLEY   | Bacterial Blight ( <i>Pseudomonas</i><br><i>spp</i> .) | 1.25                                       | 6.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10                                           | Apply when plants are first established in the field and repeat at 5 to 7 day intervals.                                            |
| PERSIMMON | Cercospora Leaf Spot                                   | 0.75                                       | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 14                                           | Apply beginning in May/June, during leaf flush, and repeat at 14 day intervals throughout the season depending on disease severity. |

## CONIFERS

(Christmas Tree Plantings, Forest Stands, and Silviculture Nurseries)

| .CROP             | DISEASE                                | RATE / A<br>(LBS OF PRO<br>Per Application |                    | Minimum<br>Retreatment<br>Interval<br>(days) | USEINSTRUCTIONS                                                                                                                                        |
|-------------------|----------------------------------------|--------------------------------------------|--------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOUGLAS FIR       | Rhabodocline Needlecast                |                                            |                    |                                              | Apply at bud break and repeat at 3 to 4 week intervals. Apply in a tank mix with other registered pesticide if disease pressure is moderate to severe. |
| FIR, PINE, SPRUCE | Needlecasts                            | 0.75-1.75                                  | <del>60</del> 66.7 | 44 7                                         |                                                                                                                                                        |
| JUNIPER           | Anthracnose, Phomopsis Twig<br>Dieback |                                            |                    |                                              | Begin applications in the sprint at the ignition of new growth and repeat at 2 to 4 week intervals or a needed depending on disease pressure.          |
| LEYLAND CYPRESS   | Cercospora Needle Blight               |                                            |                    |                                              |                                                                                                                                                        |

## TURFGRASS

| CROP                                                                                                                                                                                        | DISEASE       | RATE?/ A<br>(LBS OF PR           | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | Minimum:<br>Retreatment<br>Interval<br>(days) | USEINSTRUCTIONS                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------|------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TURFGRASS<br>(such as<br>sodfarms, golf<br>courses,<br>cemeteries,<br>home lawns,<br>and industrial or<br>municipal turf<br>areas (including<br>parks,<br>playgrounds,<br>athletic fields)) | Algae Control | 0.75<br>per 1,000<br>square feet | 70                                       | 10                                            | Apply in 5 gallons of water to control algae. This product may be used alone or in<br>combination with other registered fungicides as a maintenance spray.<br>NOTE: Phytotoxicity may occur depending upon varietal differences. If injury occurs<br>discontinue use.<br>DO NOT apply in spray solutions with a pH of less than 6.5. |

## **GREENHOUSE AND SHADEHOUSE CROPS**

This product may be used in greenhouses and shadehouses to control diseases on crops listed on this label. Specific directions are provided below for certain crops and the grower should be aware that the sensitivity of crops grown under such conditions differ greatly from field conditions. The user must determine if this product can be used safely prior to commercial application by testing a small area and observing the results for 7 to 10 days.

One level tablespoon of this product per 1,000 square feet is equivalent to 0.5 pound per acre. Begin application at first sign of disease and repeat at 7 to 14 day intervals as needed.

|                                  | DISEASE                                                                                                              | RATE<br>(Tablespoons) | USEINSTRUCTIONS                                                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CITRUS (Non-<br>Bearing Nursery) | Brown Rot, Citrus Canker,<br>Greasy Spot, Melanose, Pink<br>Pitting, Scab                                            | 1.5                   | Begin applications when disease first threatens and repeat at 30-day intervals or as needed depending on disease pressure.<br>NOTE: DO NOT use this product on Citrus seedlings grown in greenhouses or shadehouses. |
| CUCUMBER                         | Angular Leaf Spot, Downy<br>Mildew                                                                                   | 0.5-1.5               | Apply weekly when plants begin to vine.                                                                                                                                                                              |
| EGGPLANT                         | Alternaria Blight,<br>Anthracnose, Phomopsis                                                                         | 0.5                   | Apply at first sign of disease and repeat at 7 to 14 day intervals as needed.                                                                                                                                        |
| PEPPER                           | Bacterial Spot                                                                                                       | 0.5-1.5               | Apply when conditions first favor disease and at 5 to 10 day intervals as needed.                                                                                                                                    |
| ΤΟΜΑΤΟ                           | Anthracnose, Bacterial Speck,<br>Bacterial Spot, Early Blight,<br>Grey Leaf Mold, Late Blight,<br>Septoria Leaf Spot | 0.5-1.5               | Apply when conditions first favor disease and at 7 to 10 day intervals as needed.                                                                                                                                    |

## ORNAMENTALS

| СКОР                                      | DISEASE             | RATE<br>(Pounds/100<br>gallons<br>water) | USE INSTRUCTIONS                                                                                                                                                                                                                                              |
|-------------------------------------------|---------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PECAN,<br>LIVE OAK (Texas<br>and Florida) | Ball Moss           | 2.5-3.5                                  | Apply in Spring after heavy rain, using 1-1/2 gallons of spray per foot of tree height. Make sure to wet tufts thoroughly. A second application may be required after 12 months.<br>NOTE: This product may be injurious to ornamentals grown under live oaks. |
| PHILODENDRON                              | Bacterial Leaf Spot | 0.75                                     | Apply weekly before disease appears.                                                                                                                                                                                                                          |
| SYCAMORE                                  | Anthracnose         | 0.75-1.25                                | Make two applications as a full cover spray. Make first application at bud crack and second application 7 to 14 days later at 10% leaf expansion.                                                                                                             |

For control of bacterial and fungal diseases on foliage, flowers, and stems of ornamentals grown in **Greenhouses, Shadehouses, Fields and Nurseries** (container, bench or bed-grown): apply this product at 0.5 pound per 100 gallons as a full cover spray beginning at first sign of disease. **DO NOT** apply more than 800 gallons solution per acre dilute per application depending on the size of the ornamental (equivalent to 0.05 to 2 lbs. metallic copper per acre). **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.

Repeat at intervals of 7 to 14 days (minimum spray interval permitted is 7 days) depending on rainfall and disease severity. Due to the large number of species, widely varying growth conditions, and varieties of ornamentals and nursery plants it is impossible to test every one for sensitivity to this product. The user should apply the recommended rate of this product in a small area and check for any symptoms of phytotoxicity in 7 to 10 days prior to large-scale application.

DO NOT tank mix with Aliette<sup>®</sup> fungicide without buffering the spray solution.

One-half tablespoon of this product per gallon of water is equivalent to 0.9 pound per 100 gallons,

| ORNAMENTAL                     | DISEASE                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------|
| AGLAONEMA                      | Bacterial Leaf Spot                                                                           |
| ALTHEA (Rose of Sharon)        | Bacterial Leaf Spot                                                                           |
| ARALIA                         | Xanthomonas & Cercospora Leaf Spots, Alternaria                                               |
| ARBORVITAE                     | Alternaria Twig Blight, Cercospora Leaf Spot                                                  |
| AZALEA (1)                     | Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback, Powdery Mildew                   |
| BEGONIA                        | Bacterial Leaf Spot (Xanthomonas spp., Erwinia spp., Pseudomonas spp.)                        |
| BOSTON FERN                    | Bacterial Leaf Spot                                                                           |
| BOUGAINVILLEA                  | Anthracnose, Bacterial Leaf Spot                                                              |
| BULBS (Easter Lily (2), Tulip) | Botrytis Blight, Anthracnose                                                                  |
| CAMELLIA                       | Anthracnose, Bacterial Leaf Spot                                                              |
| CAMPHOR TREE                   | Pseudomonas Leaf Spot                                                                         |
| CANNA                          | Pseudomonas Leaf Spot                                                                         |
| CARNATION (1)                  | Alternaria Blight, Pseudomonas Leaf Spot & Botrytis Blight                                    |
| CHINESE TALLOW TREE            | Bacterial Leaf Spot (Xanthomonas spp., Pseudomonas spp.)                                      |
| CHRYSANTHEMUM (1)              | Septoria Leaf Spot, Botrytis Blight                                                           |
| COTONEASTER                    | Botrytis Blight                                                                               |
| DAHLIA                         | Alternaria Leaf Spot, Cercospora Leaf Spot, Botrytis Grey Mold                                |
| DATE PALM                      | Pestalotia Leaf Spots                                                                         |
| DIANTHUS                       | Bacterial Spot, Bacterial Soft Rot                                                            |
| DOGWOOD                        | Anthracnose                                                                                   |
| DRACAENA                       | Bacterial Leaf Spot                                                                           |
| DUMB CANE                      | Bacterial Leaf Spot                                                                           |
| DUSTY MILLER                   | Bacterial Leaf Spot (Pseudomonas cichorii spp.)                                               |
| ECHINACEA                      | Botrytis Blight                                                                               |
| ELM (Drake)                    | Xanthomonas Leaf Spot                                                                         |
| EUONYMUS                       | Botrytis Blight, Anthracnose                                                                  |
| EUROPEAN FAN PALM              | Pestalotia Leaf Spot                                                                          |
| GARDENIA                       | Alternaria Leaf Spot, Cercospora Leaf Spot, Botrytis Bud Rot                                  |
| GERANIUM                       | Alternaria Leaf Spot, Cercospora Leaf Spot, Botrytis Grey Mold                                |
| GLADIOLUS                      | Alternaria Leaf Spot, Botrytis Grey Mold, Bacterial Leaf Blight, Botrytis Blight, Anthracnose |
| GOLDEN RAIN TREE               | Alternaria Leaf Spot, Botrytis Grey Mold, Bacterial Leaf Blight                               |
| GRAPE IVY                      | Bacterial Leaf Spot                                                                           |
| HIBISCUS (3)                   | Bacterial Leaf Spot                                                                           |

| HOLLY FERN                   | Pseudomonas Leaf Spot                                                     |
|------------------------------|---------------------------------------------------------------------------|
| HONEY LOCUST                 | Bacterial Leaf Spot                                                       |
| IMPATIENS                    | Bacterial Leaf Spot                                                       |
| INDIA HAWTHORN (4)           | Anthracnose, Entomosporium Leaf Spot                                      |
| IRIS                         | Bacterial Leaf Spot                                                       |
| IVY (English, Algerian) (1)  | Xanthomonas Leaf Spots                                                    |
| IXORA                        | Xanthomonas Leaf Spots                                                    |
| JUNIPER (Eastern Red Cedar)  | Anthracnose                                                               |
|                              | Bacterial Leaf Spot                                                       |
| LILAC                        | Cercospora Leaf Spot                                                      |
| LOBLOLLY BAY                 | Anthracnose                                                               |
| LOQUAT                       | Entomosporium maculata, Colletotrichum spp.                               |
| MAGNOLIA (Southern)          | Anthracnose, Bacterial Leaf Spot, Algal Leaf Spot                         |
| MAGNOLIA (Sweet Bay)         | Anthracnose                                                               |
| MAGNOLIA                     | Bacterial Leaf Spot                                                       |
| MAN DEVILLAS                 | Anthracnose                                                               |
| MARIGOLD                     | Alternaria Leaf Spot, Botrytis Leaf Rot, Flower Rot, Cercospora Leaf Spot |
| MULBERRY - CONTORTED         | Bacterial Leaf Spot                                                       |
| MULBERRY - WEEPING           | Bacterial Leaf Spot                                                       |
| NEPHTHYTIS                   | Bacterial Leaf Spot                                                       |
| OLEANDER                     | Bacterial Leaf Spot, Fungal Leaf Spot                                     |
| OAK, LAUREL                  | Algal Leaf Spot, (Cephaleuros virescens spp.)                             |
| PACHYSANDRA                  | Volutella Leaf Blight                                                     |
| PANSY                        | Downy Mildew                                                              |
| PARLOR PALM                  | Bacterial Leaf Spot                                                       |
| PEAR (flowering)             | Fire Blight, Leaf Spot                                                    |
| PENTAS (Egyptian Star)       | Bacterial Leaf Spot (Xanthomonas spp.)                                    |
| PEONY                        | Botrytis Blight                                                           |
| PERIWINKLE                   | Phomopsis Stem Blight                                                     |
| PHLOX                        | Alternaria Leaf Spot                                                      |
| PHOTINIA (Red Tip, Red Leaf) | Anthracnose, Entomosporium                                                |
| PISTACHIO                    | Anthracnose                                                               |
| PLANTAIN LILY                | Bacterial Leaf Spot                                                       |
| POTHOS                       | Bacterial Leaf Spot                                                       |
| POWDER PUFF PLANT            | Bacterial Leaf Spot                                                       |
| PURPLE OSIER WILLOW          | Anthracnose                                                               |
| PYRACANTHA                   | Fireblight, Scab                                                          |
| QUEEN PALM                   | Exosporium Leaf Spot, Phytophthora Bud Rot                                |
| RHODODENDRON                 | Alternaria Flower Spot                                                    |
| ROSE (1)                     | Powdery Mildew, Black Spots                                               |
| SNAPDRAGON                   | Anthracnose, Dieback, Downy Mildew                                        |
| SPATHE FLOWER                | Bacterial Leaf Spot                                                       |
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| TATARIAN HONEYSUCKLE | Bacterial Leaf Spot              |
|----------------------|----------------------------------|
| UMBRELLA TREE        | Bacterial Leaf Spot              |
| VERBENA              | Xanthomonas Leaf Spot            |
| VIBURNUM             | Anthracnose                      |
| WASHINGTON PALM      | Pestalotia Leaf Spot             |
| WEEPING FIG          | Bacterial Leaf Spot              |
| WEEPING WILLOW       | Anthracnose                      |
| YUCCA (ADAMS NEEDLE) | Cercospora & Septoria Leaf Spots |

- (1) On some varieties a discoloration may occur in foliage or blooms. To prevent residues on commercial plants, DO NOT spray just before selling season.
- (2) Apply 2 to 3-1/2 pounds of this product in 20 to 100 gallons of water per acre. The minimum interval between treatments is 7 days. DO NOT apply more than 6.67 lbs. product per acre (2.5 lbs. metallic copper/A) in a single application. DO NOT apply more than 200 lbs. product per acre (75 lbs. metallic copper/A) per year.
- (3) Hibiscus DO NOT apply to plants in flower.
- (4) For India Hawthorn use 1-1/3 pounds per 100 gallons or 2/3 tablespoon per gallon. Use no more than 400 gallons solution per acre per application (equivalent to 2.0 lbs. metallic copper per acre). DO NOT make more than 10 applications at these rates per year (maximum of 20 lbs. metallic copper per acre per year).

## 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.

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(RV111210)

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## LABEL HISTORY

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| File Name                                 | Revision Mark                     | Comments                                                          |
|-------------------------------------------|-----------------------------------|-------------------------------------------------------------------|
| 055146-00xxx.20090831.draft               | RV083109                          | SECTION 3- Submission                                             |
| 055146-00115.20100315.MASTER              | RV031510                          | SECTION 3- EPA Approval                                           |
| 055146-00115.20100521.Mixing_Instructions | RV052110                          | Addition of Mixing Instructions                                   |
| 055146-00115.20101112.Revised_label       | RV111210                          | Correction of Certain Typographical Errors related to Coppers RED |
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