19713-32

06-10-2010

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

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Ms Luz G Chan Drexel Chemical Company PO BOX 13327 Memphis, TN 38113-0327

JUN 10 2010

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated May 14, 2010 for:

EPA Registration 19713-321

Drexel Kop Hydroxide 50W

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on <u>nonrefillable</u> containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

Rachel C. Holloman

Linda Arrington Notifications & Minor Formulations Team Leader Registration Division (7505P) Office of Pesticide Programs

\$epa	Environmenta Wash	Jnited States I Protectio ington, DC 2040	n Agency	Registration Amendmen	DOCU, Approval expires 2-28-5 DOCU, Approval expires 2-28-5 DOCU, Approval expires 2-28-5 DOCU, Approval expires 2-28-5
		Applicatio	n for Pesticide - Sectio	on I	
1. Company/Product Num 19713-321	ber		2. EPA Product Manage Tony Kish	76	3. Proposed Classification
4. Company/Product (Nan DREXEL KOP HYDF	ROXIDE 50W		PM# 22/Fungicide Bran	ch	
5. Name and Address of A Drexel Chemical Compa P.O. Box 13327 Memphis. TN 38113-03.	Applicant <i>(Include ZIP Co</i> any 27 <i>hís is e new address</i>	ode)	6. Expedited Revei (b)(i), my product is s to: EPA Reg. No Product Name	w. In accordance similar or identical i	with FIFRA Section 3(c)(3) in composition and labeling
			Section - II		
Amendment - Expl	ain below. Isponse to Agency lette ain below.	r dated	✓ Final printed la Agency letter ✓ Agency letter ™Me Too" App Other - Explain	abels in repsonse to dated plication. n below.	DTIFICATION JUN 1 ⁽⁾ 2010
			Section - III		
1. Material This Product V	Nill Be Packaged In:		1		
Child-Resistant Packaging ✓ Yes ✓ No * Certification must be submitted	Unit Packaging Yes Volume If "Yes" Unit Packaging wgt	No. per container	Water Soluble Packaging Ves No If "Yes" No. per. Package wgt container 20 LBS 1 1	2. Type of Cont	ainer stal istic ass per her (Specify)POLYBAG
		4. SIZE(S) RELE	5. 10. 15. 20. 30. 50 LBS	On the label	rections
6. Manner in Which Label	is Affixed to Product	Lithogr Paper c	aph Other		
			Section - IV		
1. Contact Point (Comple	te items directly below	for identification	of individual to be contacted, if i	necessary, to process	s this application.)
Name LUZ G CHAN			Title REGISTRATION MANAGER	Tele c(90)	phone No. (ໂກດໃນຜີອ Area Code) ເງິດ74-4370 ° ັ
l certify that the sta l acknowledge that both under applicab	itements have made or any knowlinglly false or le law.	Certificat n this form and a misleading stat	ion all attachments thereto are true, a ement may be punishable by fine	accurate and complish or imprisonment or مديني	6. Cate Application e. c Received c (Stamped)
		3	. Title	ιιζο	
2. Signature	G. Chan		REGISTRATION MANAGER		



May 14, 2010

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency Rm S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202

Re: Submission of Revised Label per PR Notice 2007-4 DREXEL KOP HYDROXIDE 50W (EPA Reg. No. 19713-321)

Herewith:

1 Completed EPA Form 8570-1

2. Two copies (marked and unmarked) of the label (321MSP-0410*) with updated container disposal statements.

3. Certification statement

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail Lchan@drexchem.com.

> 0000 0000

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Thank you.

SINCE 1972

Respectfully yours, DREXEL CHEMICAL COMPANY

Wala Chan Luz G Chan

Registration Manager

1700 Channel Avenue • Post Office Box 13327 • Memphis, Tennessee 38113-0327 Phone: (901) 774-4370 • Fax: (901) 774-4666 • E-Mail: info@drexchem.com • www.DrexChem.com



KOP-HYDROXIDE, SURF-AC and the DREXEL logo are either trademarks or registered trademarks of Drexel Chemical Company. 321MSP-0410* KOP-HYDROXIDE 50W (MSP) Page 1 of 9

MIXING INSTRUCTIONS

This product may be applied as an aerial,¹ .hd dilute or ground concentrate spray unless specifically directed otherwise by crop. When selecting a use rate for this product, do not apply less than the label recommended minimum amount. Under heavy disease pressure or when conditions favor such, use the higher rate and shorter spray intervals specified for each crop. In addition, use the higher rates for larger mature tree crops.

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

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

While volume is important in obtaining full spray coverage, often factors such as foliage density, environmental conditions and sprayer calibration have a greater impact. Always be sure that sprayers are calibrated to manufacturer's specifications and environmental conditions are within those recommended by state and local regulatory authorities. When mixing, fill spray tank one-half full with water. Add this product slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Spreaders, stickers, spray and crop oil (cleared for application to growing crops) should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank.

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

Environmental conditions such as extended periods of wet weather, acid rain, etc., which alter the pH of the leaf surface may affect the performance of this product resulting in possible phytotoxicity or loss of effectiveness

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

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

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 24 hours. The following equipment and precautions must be followed for 7 days following the application of this product. An eye flush container, designed specifically for flushing eyes, must be available at the WPS decontamination site for workers entering the area treated with copper hydroxide.

Notify workers of the application by warning them orally that residues in the treated areas may be highly irritating to their eyes and to take precautions such as refraining from rubbing their eyes and if they get residues in their eyes they should immediately flush their eyes using the eye wash.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves such as polyethylene or polyvinyl chloride, shoes plus socks and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

UBLE BAGS e.water_soluble Dovnot allow pak to DIRECTIONS FOR WATER Paks containing this prod Paks containing this prod e water soluble Do not allow pak to become wet prior to adding the spray tank. Do not handle paks with wet hands. To prepare the spray mixture, drop the required number of unopened paks into spray tank while filling with the appropriate amount of water. Operate the agitator while mixing Depending on the water, temperature and the degree of agitation, the paks should be completely dissolved in approximately 5 minutes from the time they are added to the water. Does not an exercise the spray is the specified dosage of this prod they are added to the water. Use the specified dosage of this prod-uct in the amount of water necessary to give complete coverage Determine the total amount to be added to the spray tank based on the rates in the "*CROP*" section **Note**. Products containing boron and/or fertilizers will prevent the water soluble packet from dissolving Boron and/or fertilizer, products must only be added after packet(s), have completely dissolved

Minimum Recommended Spray Volume

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

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

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

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

GENERAL CHEMIGATION INSTRUCTIONS

Do not apply this product through any irrigation system using aluminum parts or components as damage to the system may occur. Such application is prohibited regardless of whether the irrigation system is flushed with water after use of this product.

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact your State Extension Service Specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

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

SAFETY DEVICES

1) The systems designated above must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

 All pesticide injection pipelines must col matic, quick-closing check valve to preve 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.

a functional, auto-

a flow of fluid back

- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

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

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

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

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

POSTING INSTRUCTIONS

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

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

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

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

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

CROPS

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

APPLICATION FOR FROST INJURY PROTECTION

Bacterial lee Nucleation Inhibitor: Application of this product made to all crops listed on this label at rates and stages of growth indicated on this label, at least 24 hours prior to anticipated frost conditions, will afford control of ice nucleating bacteria (*Pseudomonas syringae*, *Erwinia herbicola* and *Pseudomonas fluorescens*) and may thereby provide some protection against light frost. The degree of frost protection will vary with weather conditions and other factors. Not recommended for those geographical areas where weather conditions favor severe frost.

Сгор	Disease	Rate per Acre	Number or Water-Soluble Paks	
Alfalfa	Cercospora, Leptosphaerulina leaf spots	2 lbs.	1 pak per 10 acres	
	USE INSTRUCTIONS: Apply 10 or earlier if disease threatens. Note: Spray injury may occur wi Lahontan.	to 14 days befith the sensitive vari	ore each harvest eties such as	
Almonds	Coryneum blight, Blossom brown rot	8 to 12 lbs.	2 to 3 paks per 5 acres	
	USE INSTRUCTIONS: Dorman foliage buds begin to swell. Use heavy and disease pressure is h	t application - higher rates w high.	Apply before hen rainfall is	
	Coryneum blight, Blossom brown rot	6 to 8 lbs.	3 to 4 paks	
	USE INSTRUCTIONS: Early blo Apply before full bloom. Use hig and disease pressure is high. Note: To avoid plant injury, do n bloom	oom (popcorn) her rates when ot use above ra) application - rainfall is heavy ite after full	
	Bacterial blast (Pseudomonas)	12 to 16 lbs.	3 to 4 paks per 5 acres	
	USE INSTRUCTIONS: Apply at Note: Injury may occur from pos Neplus varieties.	dormant to earl t-bloom sprays	y pink bud. , especially on	
	Bacterial blast (Pseudomonas)	1 lb.	per 20 acres	
	USE INSTRUCTIONS: For contr or where disease is severe, app intervals or just before sprinkling Note: Injury may occur from pos Neplus varieties.	ol in sprinkler in bly at 2-week po t- t-bloom sprays	rigated orchards ost-bloom , especially on	
Apples	Anthracnose, European canker, Pseudomonas	12 to 16 lbs.	3 to 4 paks per 5 acres	
·	USE INSTRUCTIONS: Apply be under severe disease conditions Note: Use on yellow varieties m avoid, pick before spraying.	fore Fall rains. s. hay cause disco	Use higher rates ploration. To	
	Fire blight	8 to 16 lbs.	1.to 2 paks per 2.5 acres	
	USE INSTRUCTIONS: Make application between silver tip and green tip. Apply as a full cover spray. Note: Crop injury may occur from late application; discontinue			
	Crown or Collar rot	4 lbs.	1 pak	
	USE INSTRUCTIONS: Mix in 10 suspension as a drench on the I Apply either in early Spring or la Note: Do not use if soil pH is b may result.	0 gals. of wate ower trunk area te Fall after har elow 5.5 since	r. Apply 4 gals. c a of each tree. vest. copper toxicity	
Apricots	Coryneum blight (Shot hole), Blossom brown rot	8 to 12 lbs.	2' to 3 paks per 5 acres	
	USE INSTRUCTIONS: Apply at higher rates when conditions fav Note: Applications applied afte	popcorn to full or disease. r bloom will res	bloom. Use ult in crop injury.	
Atemoya	Anthracnose	3 lbs.	3 paks per 20 acres	
	Make initial application just before weekly schedule until just before water for thorough coverage.	e flowering an harvest. Apply	d repeat on a in sufficient	
Avocados	Anthracnose, Blotch, Scab	8 to 12 lbs.	2 to 3 paks per 5 acres	
	USE INSTRUCTIONS: Apply we and continue application at mon applications. Use higher rate we	en bloom buds thly intervals for then conditions f	begin to swell r 5 to 6 avor disease.	
Bananas	Sigatoka	2 lbs.	1 pak per 10 acres	
	USE INSTRUCTIONS: Apply by 0.5 gal. of a suitable agricultural schedule throughout the wet sea during dry periods.	USE INSTRUCTIONS: Apply by air in 3 gals. of water combining 0.5 gal. of a suitable agricultural spray oil. Apply on a 14-day schedule throughout the wet season. Apply at 21-day intervals during dry periods.		
	Black pitting	4 lbs.	1 pak per 5 acres	
	USE INSTRUCTIONS: Apply in acre) directly to the fruit stem ar the leaf crown. Apply during the fruit emergence.	100 gals. of wa nd include the b first and secon	iter (4 lbs. per asal portion of d weeks after	
Beans	Bacterial blight (halo and common), Brown spot	1 to 3 lbs.	1 to 3 paks per-20 acres	
	USE INSTRUCTIONS: Use the disease. For protective sprays, plants are 6 inches high. Repea depending upon local conditions	higher rate for r make first appl it on a 7- to 14- s	nore severe ication when day schedule	

(Continued)		(
Сгор	Disease	Rate per Acre	Number of Water-Soluble Paks
Blackberries (Santiams,	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	4 lbs.	1pak per 5 acres
Boysens, Marions, Auroras,	USE INSTRUCTIONS: Apply as training in the Spring. Make Fall gt. of crop oil per acre.	delayed dorma application aft	ant spray after er harvest. Add 1
Chehalems, and Thornless	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	2 lbs.	1 pak per 10 acres:
evergreens)	USE INSTRUCTIONS: Apply whe repeat when flower buds show w per acre. Note: Crop injury may occur if a conditions such as hot or proton application if signs of crop injury	en leaf buds be hite. Add one pplied to foliag ged moist perio appear.	egin to open and quart of crop oil le under certain ods. Discontinue
Blueberries	Bacterial canker	6 lbs.	3 paks per/10/acres
	USE INSTRUCTIONS: Make firs and a second application four w	t application b eeks later.	efore Fall rains
Broccoli, Brussels sprouts,	Black rot (Xanthomonas), Black leaf spot (Altemaria), Downy mildew (Peronospora)	1 to 2 lbs.	1 to 2 paks per 20 acres
Cabbage, Cauliflower, Greens (Beet, Collard, Mustard, Turnip)	USE INSTRUCTIONS: Apply at control of diseases of these crop transplants are set in the field or seeded crops or when condition Use higher rates when condition Note: Reddening of older leaves flecking of wrapper leaves may dise	7- to 10-day inf os, begin appli- shortly after er s favor disease s favor disease s may occur or occur on Cabb	tervals. For cation after mergence of field e development. e. I Broccoli and age
Сасао	Black pod	2 to 8.5 lbs.	4 to 17 paks
	rainy season and continue while Sprays should be made at 2 to 4 acres) as often as 14 to 21 days varying rates depending on dise where 2 to 4 applications are re infection periods and at long inte (<u>17. paks per, 40 acres</u>) accordin planting density.	infection condi 4.5 pounds (3.4 s in high rainfal ase severity. F commended d ervals, use 8.5 ig to disease in	itions persist 0.7/paks.per.30 I areas at or drier areas, uring critical lbs. per acre ncidence and
Cantaloupes, Honeydews,	Downy mildew	2 lbs.	1, pak per 10 acres;
INUSKINEIONS	USE INSTRUCTIONS: Begin ap favorable for disease development intervals as needed, depending	plication when ent and repeat on disease se	conditions are at 5- to 7-day verity.
Carambola	Anthracnose	6 lbs.	3 paks per 10 acres
	USE INSTRUCTIONS: Make init flowering and repeat on a week harvest. Apply in sufficient water	ial application y schedule unti for thorough c	just before I just before overage.
Carrots	Alternaria, Cercospora leaf spot	2 lbs.	1 pak par 10 acress
	USE INSTRUCTIONS: Begin ap threatens and repeat at 7- to 14 depending on disease.	plication when -day intervals a	disease first is needed
Celery, Celeriac	Cercospora early blight, Septoria late blight, Bacterial blight	2 lbs.	f peix per 10 ecces
	USE INSTRUCTIONS: Begin ap established in the field, repeating depending on disease severity a	plication as pla g at 5- to 7-day and environme	ants are first y intervals ntal conditions.
Cherries	Dead bud <i>(Pseudomonas syringae)</i> , Coryneum blight	8 to 12 lbs.	2 ග ව ලබය ලබා ම ලබා ම ම
	USE INSTRUCTIONS: Make firs heavy rains and a second at late the disease is severe, a spray s after harvest. Add 1 pt. of superi water as a dilute spray.	t application in dormant. In or hould also be or-type oil per	I Fall before rchards where applied shortly 100 gals. of
	Brown rot, Blossom blight	8 to 12 lbs.	2්ගව ලාක්ෂ ලාකා වි කොම
	USE INSTRUCTIONS: Apply a fit stage and a second application Note: To avoid injury, do not use	ull cover spray at full bloom. after full bloor	at popcom n.

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(Continued)

Сгор	Disease	Rate per Acre	Number of Water-Soluble Paks
Chives	Downy mildew	2 lbs.	1 pak per 10 acres
	USE INSTRUCTIONS: Begin app established in the field. Repeat a dictated by disease conditions. If the shorter spray interval.	blications wher pplications events disease press	n plants are ery 7-10 days as sure is high, use
Coffee	Coffee berry disease (Colletotrichum coffeanum)	6 to 8 lbs.	3 to 4 paks per 10 acres
	USE INSTRUCTIONS: Apply first before onset of long rains and the until picking. Use higher rates whe disease pressure is high.	t spray after flo en at 21- to 28 ien rainfall is h	wering and -day intervals eavy and
	Bacterial blight (Pseudomonas syringae)	6 to 8 lbs	3 to 4 paks per 10 acres
	USE INSTRUCTIONS: Begin spr the long rains and continue throuu 21-day intervals. The critical time disease is just before, during and when coinciding with wet weathe is heavy and disease pressure is	ay program be ghout the rainy of spraying to d after flowerin r. Use higher r s high.	efore the onset of y season at 14- to o control this g, especially ates when rainfall
	Leaf rust (Hemileia vastatrix)	2 to 4 lbs.	1 to 2 paks
	USE INSTRUCTIONS: Apply bef 21-day intervals while rains contin rainfall is heavy and disease pre-	ore the onset on nue. Use highers ssure is high.	of rain and then at er rates when
	lron spot (Cercospora coffeicola), Pink disease (Corticium salmonicolor)	2 lbs.	1 pak. per 10 acres -
	USE INSTRUCTIONS: Use conc treatment at the start of wet seas intervals for three applications.	entrate or dilut on and continu	e spray. Begin ue at monthly
Cranberries	Fruit rot	8 lbs.	1 pak per 2.5 acres
	USE INSTRUCTIONS: Make first application in late bloom. One or two additional applications at 10- to 14-day intervals may be required, depending upon disease severity.		
	Rose bloom	8 lbs.	1, pak ; per 2.5 acres
	USE INSTRUCTIONS: Apply three schedule as soon as symptoms	ee sprays on 1 are observed.	0- to 14-day
	Bacterial stem canker	8 lbs.	i pak ∋per 2!5'acres
	USE INSTRUCTIONS: Apply postharvest and again in Spring before bud burst. One or two additional applications at 10- to 14-day intervals may be required depending upon disease severity.		
	Tip blight (Monolinia), Stem and Leaf blight, Red leaf spot	8 lbs.	1 paks per 2.5 acres
	USE INSTRUCTIONS: Apply del Spring. Repeat at 10- to 14-day pre-bloom.	ayed dormant intervals as ne	spray in the eded through
Cucumbers	Angular leaf spot, Downy mildew	1.5 to 2 lbs.	Sto4 paks per40 acres
	USE INSTRUCTIONS: Apply we	ekly when plan	ts begin to vine.
Currants, Goose- berries	Leaf spot, Anthracnose	10 lbs.	tipas tper2acres
beines	USE INSTRUCTIONS: Make init have expanded. Continue on a 1 wet conditions in the Spring. Mal after harvest.	ial application 0- to 14-day s ke an addition	after first leaves chedule during al application
Dill	Phoma leaf spot, (<i>Rhizoctonia</i>), Foliage blight	2 to 3 lbs.	208pzks per20eces
	USE INSTRUCTIONS: Begin ap established in the field and reper depending upon disease severit Use higher rates when condition	plications when at at 7- to 10-c y and environn s favor disease	n plants are first day intervals nental conditions. e.
Eggplant	Alternaria blight, Anthracnose, Phomopsis	2 lbs.	1 pak par 10 cccas
	USE INSTRUCTIONS: Begin ap disease symptoms. Repeat spra needed, depending on disease	plication prior ly at 7- to 10-d severity.	to development of ay intervals or as

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(Continued)

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Crop	Disease	Rate per Acre	Number of Water-Soluble Paks
Filberts	Bacterial blight	16 to 24 lbs.	8 to 12 paks per 10 acres
	USE INSTRUCTIONS: Apply as August or early September. In se second spray when three-fourths Add 1 pt. of superior-type oil pe	a post-harvest easons of heav of the leaves r 100 gals. of v	spray in late y rainfall apply a have dropped. vater.
	Eastern filbert blight	16 to 24 lbs.	\$ 8,to 12 paks per 10 acres
	USE INSTRUCTIONS: Apply as water for thorough coverage. Ma harvest in October before heavy application should be made in a followed by another application 1 pint of a sticking agent or sup- water.	a dilute spray ake initial appli Winter rains b ate February to one month late erior-type oil pe	in adequate cation after egin. The next early March r. If desired, add er 100 gallons of
Ginseng	Alternaria leaf and stem blight	2.6 lbs.	2 paks per 15 acres
	50W used in 100 gallons of wat as plants emerge in Spring. App every 7 days until plants becom application is to be made befor fungicides at least 8 hours befo time to dry on the plants. Use of advised. Note: Alternaria leaf and stem I conditions such as those found years old Ginseng. It is very imp thoroughly covered with fungicid apparatus which distributes the	er. Begin applie blications shoul e dormant in Fa e a rain shower re the rain, givi [†] a spreader-sti blight are most in the dense ca optant that the e; therefore, us fungicide throu	2 los. of Rovai cations as soon d be repeated all. If scheduled r, apply ng the fungicides cker or sticker is severe in humid anopies of 2 to 4 stems be se a spray ghout the canopy.
Grapes	Black rot, Powdery mildew, Downy mildew, Phomopsis, Leaf blight	2 lbs.	1 pak per 10 acres
	bud break with subsequent appl depending upon disease severi Note: Foliage injury may occur such as Concord, Delaware, Ni sensitivity or add 1 to 3 lbs. of h product.	ications throug ty. on copper sens agra and Rose lydrated lime p	hout the season, sitive varieties tte. Either test for er pound of this
Guava	Anthracnose, Red algae	3 lbs.	2 paks per 13 acres
	flowering and repeat on a week harvest. Apply in sufficient water	ly schedule unt	il just before overage.
Hops	Downy mildew	2 lbs.	1/pak per-10/acres
	USE INSTRUCTIONS: Make cro before training. After training, ac at about 10-day intervals. Note: Discontinue use 2 weeks	own treatment a Iditional treatm before harves	after pruning, but ents are needed t.
Kiwi	Pseudomonas syringae, Erwinia herbicola, Pseudomonas fluorescens	8 lbs.	r 2paks par5ceras
	USE INSTRUCTIONS: Apply in Make applications on a monthly applications may be made.	200 gallons of basis. A maxir	water per acre. num of 3
Lettuce, Endive,	Downy mildew	1 to 2 lbs.	1 to 2 paks per 20 acres
Escarole	USE INSTRUCTIONS: Begin tre appears and repeat every 3-10 disease. Note: Flecking and/or yellowing certain environmental conditions moist weather, acid rains, or oth pH on leaf surfaces. Injury may b crop value. Increasing the volum decrease phytotoxicity antential	eatment when d days as neede of leaves will d such as exten ler conditions f be severe enou e of spray wate	lisease first d to suppress occur under ded periods of avoring reduced ugh to reduce er will frequently
Litchi	Anthracnose	3 lbs.	20210 0971920793
	USE INSTRUCTIONS: Make ini flowering and repeat on a week harvest. Apply in sufficient water	tial application ly schedule unt for thorough c	just before Il just before overage.

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Crop	Disease	Rate per Acre	Number of Water-Soluble Paks
Macadamia nuts	Anthracnose	6 lbs.	3 paks; per 10 acres
	USE INSTRUCTIONS: Initiate si and repeat on a weekly schedul in sufficient water for thorough c	prays at first si e until just befo overage.	gn of flowering ore harvest. Apply
	Phytopthora blight (P. capsici), Raceme blight (<i>Botrytis</i> <i>cinerea</i>)	4.5 to 6 lbs.	3 paks per 10 to 13 3 acres
	USE INSTRUCTIONS: Apply du bloom periods. Apply in sufficier	ring raceme d	evelopment and prough coverage.
Mamey sapote	Anthracnose, Algal leaf spot	6 to 8 lbs.	3 paks per 5 acres
	USE INSTRUCTIONS: Apply wh development. Repeat on 14-30 severity and environmental cond	nen conditions day schedule litions dictate.	favor disease as disease
Mangoes	Anthracnose	8 lbs.	2 paks per 5 acres
	USE INSTRUCTIONS: Apply me	onthly after frui	t set until harvest.
Olives	Peacock spot, Olive knot	8 to 12 lbs.	2 to 3 paks per 5 acres
	USE INSTRUCTIONS: Make first fall. A second application in ear disease is severe. Apply the hig pressure or when conditions fav	st application I ty Spring shou gh rate for hea or such.	before Winter rain Id be made if wy disease
Onions	Purple blotch, Downy mildew	2 lbs.	1 pak per 10 acres
	USE INSTRUCTIONS: Begin wi and repeat at 7- to 10-day inter on disease severity. Can cause	hen plants are vals or as nee phytotoxicity c	4 to 6 inches high ded, depending on leaves.
	Bacterial blight	1 to 1.5 lbs.	1 pak per 13.3 to 20 acres
	USE INSTRUCTIONS: Begin wi and repeat at 7- to 10-day inter on disease severity. Can cause	hen plants are vals or as nee phytotoxicity o	4 to 6 inches high ded, depending on leaves.
Рарауа	Anthracnose	4 to 10 lbs.	2 to 5 paks per 10 acres
	USE INSTRUCTIONS: Apply be 10 to 14 day intervals under ligh 7-day intervals under heavy dise any approved spreader is desir	ofore disease a nt disease pres ease pressure able.	appears. Apply at ssure and at 5- to . The addition of
Parsley	Bacterial blight (Pseudomonas sp.)	3 lbs.	2/paks) per 13 acres
	USE INSTRUCTIONS: Begin and established in the field and report depending upon disease sever	oplications whe eat at 5- to 7-d ty and environ	en plants are first lay intervals mental conditions.
Passion fruit	Anthracnose	6 lbs.	3 paks per 10 acres
	USE INSTRUCTIONS: Make ini flowering and repeat on a week harvest. Apply in sufficient wate	tial application by schedule un r for thorough	n just before til just before coverage.
Peaches, Nectarines	Leaf curl, Coryneum blight (shot hole), Bacterial canker and Blast (<i>Pseudomonas</i>), Bacterial spot (<i>Xanthomonas</i>)	8 to 16 lbs.	, 0 ්ගනුලස්ස , ලපානුම සොපො ,
	USE INSTRUCTIONS: Apply at when rainfall is very heavy and be used with agricultural spray of	leaf fall. Use t disease press oil.	he highest rate ure is high. May
	Brown rot blossom blight	8 to 12 lbs.	202pels perseces
	USE INSTRUCTIONS: Apply as Application at this time affords Coryneum blight.	s full cover spra some control c	ay at pink bud. of Leaf curl and
	Bacterial spot	1 lb.	1 pak par20aaas
	USE INSTRUCTIONS: Make po second cover sprays.	ost-bloom appl	ication at first and
	Bacterial spot	8 lbs.	2 paks par 5 cores
	USE INSTRUCTIONS: Apply as	a dormant sp	iray.
Note: Do not	spray later than three weeks price	or to harvest. L	Jse only
cover sprays.	o rates. Spotting of leaves and d	eioliation may	occur nom use in

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KOP-HYDROXIDE 50W (MSP) Page 5 of 9

(Continued) Water-Soluble Rate Crop Paks Disease per Acre 1-to 2 paks, per 13 acres 1.5 to 3 lbs. Peanuts Cercospora leaf spot USE INSTRUCTIONS: Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat at 10-to 14-day intervals as needed. Reduce sprays to 7-day intervals during humid weather. Use higher rates when weather conditions favor disease Note: The use of one to two quarts of Sulfur 6L per acre may be added Pears Fire blight 1 lb. 11 pak per 20 acres USE INSTRUCTIONS: Apply at 5-day intervals throughout the bloom period. 3 to 4 paks Blossom blast (Pseudomonas 12 to 16 lbs. per 5 acres blight) USE INSTRUCTIONS: Apply before Fall rains and again during dormancy before Spring growth starts. Use the higher rates when disease pressure is high or when conditions favor the development of such Note: May cause Fruit russet on copper sensitive varieties 1.5 to 3 lbs. 1 to 2 paks Peas Powdery mildew per 13 acres USE INSTRUCTIONS: Begin application when disease symptoms first appear and repeat at weekly intervals as needed. Use higher rate for more severe disease. to 2 paks per 10 acres Pecans Shuck and Kernel rot 2 to 4 lbs. (Phytophthora cactorum), Zonate leaf spot (Cristulariella pyramidalis) USE INSTRUCTIONS: For suppression, apply in sufficient water to ensure complete spray coverage at 2- to 4-week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter intervals if frequent rainfall occurs. 6 lbs. 3 paks per 10 acres Mosses, Alga, Lichen USE INSTRUCTIONS: Mix with spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses. 3 paks per 10 acres Pecans Ball Moss 6 lbs. (FL and TX) USE INSTRUCTIONS: Apply 6 pounds per 100 gallons of water, in the Spring, when Ball moss is actively growing, using 1.5 gallons of spray per foot of tree height. Make sure to wet Ball moss tufts thoroughly. A second application may be required after 12 months. Note: This product may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonary surfaces. Do not spray on cars, houses, lawn furniture, etc. 1 to 2 paks per 10 acres Shuck and Kernel rot 2 to 4 lbs. (Phytophthora cactorum), Zonate leaf spot (Cristulariella pyramidalis) USE INSTRUCTIONS: For suppression, apply in sufficient water to ensure complete spray coverage at 2- to 4-week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter intervals if frequent rainfall occurs. 3)paks Mosses, Alga, Lichen 6 lbs. per 10 acres USE INSTRUCTIONS: Mix with spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses. 2008 paks per20 accs Bacterial spot Peppers 2 to 3 lbs. USE INSTRUCTIONS: Begin applications when conditions first favor disease development and repeat at 5- to 10-day intervals as needed depending on disease severity. Use higher rates for severe disease. Pistachios Botrytis blight 1102 pais par 5 acces 4 to 8 lbs. (Botryosphaeria), Panicle and Shoot blight, Septoria leaf blight, Late blight (Alternaria alternata) USE INSTRUCTIONS: Make initial application at bud swell and repeat on a 14- to 28-day schedule as dictated by disease conditions. If disease conditions are severe, use the high rate and short spray interval. Plums, Coryneum blight (shot hole) 8 to 16 lbs. 1102pals per25ecc Prunes USE INSTRUCTIONS: Apply as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high. 2008 ලබාගි ලබා වි නොමෙ Brown rot, Blossom blight 8 to 12 lbs. USE INSTRUCTIONS: Apply full cover application at pink, red or early white stage. Use the higher rate when disease pressure is heavy or conditions favor the development of such.

Crop	Disease	Rate	Water-Soluble Paks
Potatoes	Early blight, Late blight	1 to 4 lbs.	11 to 4 paks
	USE INSTRUCTIONS: Apply at 1 acress at 7- to 10-day intervals sta high until 2 weeks before harvest i light. Use 3 to 4 lbs. per acre (3:to disease is more severe. Under co control with this product will be im compatible fungicides registered to follow all label instructions of tank	L arting when p n locations w 4 paks per- inditions of s proved by tai for use on Po mix partners	10/31paks/per(40) lants are 6 inches where disease is 20/acres) where evere disease, nk mixing with other platoes. Read and
Pumpkin, Squash	Powdery mildew	1.5 to 3 lbs	1. to 2 paks + 2 * per 13 acres
	USE INSTRUCTIONS: Begin appl old or when disease symptoms fir intervals as needed to maintain co disease is heavy or conditions fav	ication when st appear an ontrol. Use the or such.	plants are 3 weeks d repeat at 7-day e higher rates if
Quince	Fire blight USE INSTRUCTIONS: Apply at 5-	1 lb. day intervals	1 pakiper 20 acres
	period.		
Rasp- berries	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust, Pseudomonas blight	4 lbs.	1 pak per 5 acres
	USE INSTRUCTIONS: Apply as d training in the Spring. Make Fall a of crop oil per acre.	elayed dormapplication af	ant spray after ter harvest. Add 1 qt.
	Leaf spot, Cane spot, Purple blotch, Anthracnose, Yellow rust	2 lbs.	1 pak per 10 acres
	USE INSTRUCTIONS: Apply when repeat when flower buds show wh acre. Note: Crop injury may occur if ap conditions such as hot or prolonge	n lear buds b ite. Add one plied to foliag ed moist peri	egin to open and quart of crop oil per ge under certain ods. Discontinue
Rice	False smut and Panicle blight	1 to 3 lbs.	4 1 to 3 paks
	repeat at 7- to 10-day intervals or Use higher rate and shorter spray is high or environmental condition development. DO NOT drain the fi application.	as needed u interval when s are favorat ield for at lea	Intil 100% heading. In disease pressure the for disease that 14 days after last
Spinach	Anthracnose, Blue mold, Cercospora leaf spot, White rust	2 to 3 lbs.	2 to 3 paks per 20 acres
	appears or conditions favor disea 10-day intervals as needed. Note: Flecking may occur on Spin	lications whe ise developm nach leaves.	n disease first hent. Repeat at 7- to
Straw- berries	Leaf spot, Leaf blight	2 to 3 lbs.	2103 paks per 20 acres
	USE INSTRUCTIONS: Begin appl established and continue on a we season. Apply in at least 20 gallo when conditions favor disease. Note: Discontinue application if s	lication when ekly scheduk ns of water. L igns of crop	plants are e throughout the Jse the higher rates injury appear.
Sugar	Anthracnose	12 lbs.	3 paks per 5 acres
apple (Annona)	USE INSTRUCTIONS: Make initia and repeat on a weekly schedule sufficient water for thorough cover	al application until just before	just before flowering ore harvest. Apply in
Sugar beets,	Cercospora leaf spot	2 to 5 lbs.	2(0)5(paks) per20(acres)
beets	USE INSTRUCTIONS: Begin app disease development and repeat needed. Use the higher rate when Surf-Ac [®] 820 or a suitable agricul	lication when at 10- to 14- disease is s tural oil is red	conditions first favor day intervals as severe. Addition of commended.
Tomatoes	Early blight, Late blight	2 to 3 lbs.	2්රා ව දැඩිය per 20 කෙසෙ
	USE INSTRUCTIONS: Begin whe repeat at 7- to 10-day intervals or disease severity. Use higher rate	n disease fir as needed, for severe di	st threatens and depending on sease.
	Bacterial speck	2 lbs.	1 pakper 10 acres
	USE INSTRUCTIONS: Begin app threatens and repeat at 10- to 30 depending on severity.	lication when -day intervals	disease first s or as needed
	Bacterial spot, Anthracnose, Gray leaf mold, Septoria leaf spot	2 to 4 lbs.	162028 02028
	USE INSTRUCTIONS: Begin app threatens and repeat at 7- to 10-o depending on disease severity. U	lication when lay intervals, se higher rat	disease first or as needed e for severe disease

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Сгор	Disease	y Rate per Acre	Number of Water-Soluble Paks
Walnuts	Walnut blight	8 to 12.5 lbs.	2 to 3 paks per 5 acres
	USE INSTRUCTIONS: Apply first bloom prior to when catkins are additional applications during bl as needed when free moisture of catkins, leaves and nutlets is ess When applied as a dilute spray, may be added per 100 gallons of Note: Adequate control may nor tolerant species of Xanthomona	t application s partially expan oom and early occurs. Thoroug sential for effect 1 pint of Sum of spray. t be obtained v s bacteria are	pray at early pre- ided. Make nutlet stage or gh coverage of ctive control. mer oil emulsion when copper present.
Watercress	Cercospora leaf spot	2 lbs.	1 pak per 20 acres
	USE INSTRUCTIONS: Begin ap established in the field, repeatin depending on disease severity a Do not exceed 4 applications pe spray equipment at no less than per acre.	plications whe g at 7- to 14-d and environme er crop. Apply 50 gallons of	n plants are first ay intervals ntal conditions. using ground spray solution
Watermelon	Anthracnose, Bacterial fruit blotch (suppression), Downy mildew	1.5 to 2 lbs.	3 to 4 paks per 40 acres
	USE INSTRUCTIONS: Apply as established in the field and repe needed, depending upon disease when conditions favor disease.	soon as plants at at weekly in se severity. Us	s become tervals as e higher rates
Wheat, Barley, Oats	Septoria leaf blotch, Helminthosporium spot blotch	1.5 to 2 lbs.	3 to 4 paks per 40 acres.
	USE INSTRUCTIONS: Make first and follow with a second spray for rates when conditions favor dise	application a application a a section a section a section of the s	t early heading Jse the higher

CITRUS

Disease	Rate per Acre	Water-Soluble Paks
Melanose, Scab,	4 to 12 lbs.	1 to 3 paks per 5 acres
Algal spot	USE INSTRUCTIONS: Ap bloom sprays.	ply as pre-bloom and post-
Greasy spot,	2 to 6 lbs.	1 to 3 paks per 10 acres
Pink pitting	USE INSTRUCTIONS: Ap new flush. Repeat on subs pressure is severe. Use h favor disease.	ply in Summer on expanded sequent flushes where disease igher rates when conditions
Alternaria	8 to 10 lbs.	4 to 5 paks per 10 acres
	USE INSTRUCTIONS: On when the first Spring flush thereafter. Application to t thirds of the petals have fa day schedule.	susceptible varieties apply appears and each flush he fruit should start after two- allen and be repeated on a 21
Phytophthora	4 to 8 lbs.	1 to 2 paks/per 5 acres
spot	USE INSTRUCTIONS: Be continue as needed. Appl bare ground 1 ft. beyond s protect developing fruit in history or when conditions Use higher rates when co Note: In CA, in areas sub to 1 lb. of high quality lime	gin application in Fall and y to entire tree. Apply also to skirt. Make foliar applications to orchards with previous disease favor disease development. nditions favor disease. ject to copper injury, add 0.33 e per lb. of this product.
Citrus canker	12 lbs.	3 paks per 5 acres 44
(suppression only)	USE INSTRUCTIONS: Sp shoots begin to grow. You additional application. Nu will be dependent on dise disease pressure, each fli sprayed.	ray flushes 7-14 days after ng fruit may require an mber and timing of applications ase pressure. Under heavy ush of new growth should be
Phytophthora foot	1 lb.	1 pak per 20 acres
	USE INSTRUCTIONS: Mil trunks of trees from the sc limbs. Apply in May prior i Fall prior to wrapping tree Treatment serves for prote not cure existing infections	x with 1 gal. of water and paint bil surface to the lowest scaffold to Summer rains and/or in the s for freeze protection. sction up to one year, but does s.
Note: Adding foliar nutritionals to spray mixtures containing this product or other products and applying to Citrus during the post bloom period when young fruit is present may result in spray burn. Do not use this product on Citrus seedlings grown in greenhouses or shadehouses.		

CITRUS (Field I)ry G

To control Melanos ab, Pil ing, Greasy spot, Brown rot and for Citrus canker (suppression), apply 2.0 pounds of this product per 100 gallons of water (4 to 8 lbs./acre)(ii to 2 paks per 5 acres). Apply this product at 28-day intervals or as needed depending on disease severity.

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GREENHOUSE AND SHADEHOUSE CROPS

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

Apply this product according to specific rates given for these crops in pounds per acre or pounds per 100 gallons. One level tablespoon of this product per 1,000 square feet is equivalent to 1 pound per acre. One-half tablespoon of this product per gallon of water is equivalent to 1 pound per 100 gallons. This product should be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat at 7- to 14-day intervals as needed; use shorter interval during periods when severe disease conditions persist.

GRE	GREENHOUSE AND SHADEHOUSE CROPS		
Сгор	Disease	Rate (TBSP / 1,000 SQ. FT.)	
Eggplant	Alternaria blight, Anthracnose, Phomopsis	2	
	USE INSTRUCTIONS: Begin ap development of disease sympto to 10-day intervals or as needed pressure.	oplications prior to ms. Repeat sprays at 7- d depending on disease	
Pepper	Bacterial spot	2 to 3	
	USE INSTRUCTIONS: Begin ap conditions first favor disease de 5- to 10-day intervals as needed severity. Use higher rates for se	pplications when velopment and repeat at d depending on disease vere disease.	
Cucumber	Angular leaf spot, Downy mildew	1.5 to 2	
	USE INSTRUCTIONS: Apply we vine.	eekly when plants begin to	
Tomato	Early blight, Late blight	2 to 3	
	USE INSTRUCTIONS: Begin with threatens and repeat at 7- to 10 needed depending on disease for severe disease.	nen disease first -day intervals or as severity. Use higher rate	
	Bacterial speck	2	
	USE INSTRUCTIONS: Begin applications when disease first threatens and repeat at 7- to 10-day intervals or as needed depending on disease severity.		
	Bacterial spot, Anthracnose, Gray leaf mold, Septoria leaf spot	2 to 4	
	USE INSTRUCTIONS: Begin wi threatens and repeat at 7- to 10 needed depending on disease for severe disease.	nen disease first I-day intervals or as severity. Use higher rate	

ORNAMENTALS

Notice to User: Plant sensitivities to copper hydroxide have been found to be acceptable in specific genera and species listed on this label; however, phytotoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for sensitivity to this product. Neither the manufacturer nor seller has determined whether or not this label. The user should determine if this product can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e., bedding plants, foliage, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.

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

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

Ornamentals	Disea
Althea (Rose of Sharon)	Bacterial leaf spot
Aralia	Alternaria, Bacterial fruit blotch (suppresion), Cercospora leafspot, Downy mildew, Xanthomonas leafspot
Arborvitae	Alternaria twig blight, Cercospora leaf blight
Azalea*	Botrytis blight, Cercospora leaf spot, Phytophthora dieback, Powdery mildew
Begonia	Bacterial leaf spot (Xanthomonas sp., Erwinia sp., Pseudomonas sp.)
Bougainvillea	Anthracnose, Bacterial leaf spot
Bulbs, (Tulip, Gladiolus)	Anthracnose, Botrytis blight
Camellia	Anthracnose, Bacterial leaf spot
Camphor tree	Pseudomonas leaf spot
Canna	Pseudomonas leaf spot
Carnation*	Alternaria blight, Botrytis blight, Pseudomonas leaf spot
Chinese tallow tree	Bacterial leaf spot (Xanthomonas sp., Pseudomonas
Chrysanthemum*	Botrytis blight. Septoria leaf spot
Cotoneaster	Botrytis blight
Dahlia	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Date palm	Pestalotia leaf spot
Dianthus	Bacterial spot, Bacterial soft rot
Dogwood	Anthracnose
Dusty miller	Bacterial leaf spot (Pseudomonas cichorii)
Easter lily**	Botrytis blight
Echinacea	Bacterial leaf spot (Pseudomonas cichorii)
Elm "Drake"	Xanthomonas leaf spot
Euonymus	Anthracnose, Botrytis blight
European fan palm	Pestalotia leaf spot
Gardenia	Alternaria leaf spot, Botrytis bud rot, Cercospora leaf
Geranium	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot
Gladiolus	Alternaria leaf spot, Botrytis gray mold, Bacterial leaf blight
Golden rain tree	Bacterial leaf spot
Hibiscus	Bacterial leaf spot
Holly fern	Pseudomonas leaf spot
Impatiens	Bacterial leaf spot
Indian hawthorn***	Anthracnose, Entomosporium leaf spot
Ny (English, Algerian)*	Xanthomonas leaf spot
kora	Xanthomonas leaf spot
Juniper (Easter red cedar)	Anthracnose
Lantana	Bacterial leaf spot
Lilac	Cercospora leaf spot
Lobiolly bay	Anthracnose
Loquat	Entomosporium maculata, Colletotrichum sp.
Magnolia (Southern)	Algal leaf spot, Anthracnose, Bacterial leaf spot
Magnolia (Sweet bay)	Anthracnose
Magnolia	Bacterial leaf spot
Mandevillas	Anthracnose
Marigold	Alternaria leaf spot, Botrytis leaf and flower rot, Cercospora leaf spot
Mulberry, weeping	Bacterial leaf spot
Oak, laurel	Algal leaf spot (Cephaleuros virescens)
Oleander	Bacterial leaf spot, Fungal leaf spot
Pachysandra	Volutella leaf blight
Pansy	Downy mildew
Pear (Flowering)	Fireblight, Leaf spot

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(Continued)		
Ornamentals	Disease	
Pentas (Egyptian star)	Bacterial leaf spot (Xanthomonas sp.)	
Peony	Botrytis blight	
Periwinkle	Phomopsis stem blight	
Philodendron	Bacterial leaf spot	
Phlox	Altemaria leaf spot	
Photinia (Red top, Red leaf)	Anthracnose, Entomosporium	
Pistachio	Anthracnose	
Plantain lily	Bacterial leaf spot	
Powder puff plant	Bacterial leaf spot	
Pyracantha	Fireblight, Scab	
Queen palm	Exosporium leaf spot, Phytophthora bud rot	
Rhododendron	Alternaria flower spot	
Rose*	Black spot, Powdery mildew	
Verbena	Xanthomonas leaf spot	
Viburnum	Anthracnose	
Washingtonia palm	Pestalotia leaf spot	
Weeping willow	Anthracnose	
Yucca (Adam's needle)	Cercospora leafspot, Septoria leafspot	
 Discoloration of foliage and/or blooms have been noted on some varieties. To prevent residues on commercial plants, do not spray just before selling season. Note: Phytotoxicity may depend on varietal differences. If unfamiliar with the use of this product, apply the recommended rate to a few plants and observe after 7 to 10 days for symptoms of phytotoxicity. For Easter lily, use 3 to 5 lbs. per acre in 20 to 100 gallons water. For Indian hawthom, use 2 to 4 lbs. per 100 gallons. 		

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ORNAMENTAL TREES					
Сгор	Disease	Rate per Acre	Number of Water-Soluble Raks		
Douglas	Rhabdocline needlecast	2 lbs.	1 pak per 10 acres		
fir	USE INSTRUCTIONS: Begin applications at bud break and repeat at 3- to 4-week intervals. Apply in a tank mix another registered pesticide if moderate to severe disease pressure is present.				
Live oak	Ball moss	6 lbs.	1 päk per 3 acres		
	USE INSTRUCTIONS: Apply in 100 gallons of water in the Spring when Ball moss is actively growing using 1.5 gals. of spray per fl of tree height. Make sure to wet ball moss tufts thoroughly. A second application may be required after 12 months. Note: This product may be injurious to ornamentals grown under Live oaks. This product may be reactive on metal and masonry surfaces. Do not spray on cars, houses, lawn furnitures, etc.				
Sycamore	Anthracnose	2 to 3 lbs.	2 to 3 paks per 20 acres		
	USE INSTRUCTIONS: Apply as a full spray coverage. Apply in 100 gals. of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7 to 10 days later at 10% expansion.				

TURFGRASS

Crop	Disease	Rate per Acre
Turfgrass	Algae	see USE INSTRUCTIONS
	USE INSTRUCTIONS: Apply 1.5 lbs. per 1,000 square feet in 5 gallons of water. May be used as a maintenance spray as needed. May be used alone or in combination with fungicides. Observe all precautions and limitations on the label of each product used in tank mixes. Note: Phytotoxicity may occur depending on varietal differences. Apply the recommended rate to a small area and observe 7 to 10 days for phytotoxicity. If phytotoxicity occurs, discontinue use. Do not apply in spray solutions with a pH of less than 6.5.	

STORAGE AN DIS- USAL

Do not contaminate water, food or feed by storage and disposal. **PESTICIDE STORAGE:** Store in a cool, dry place.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

WATER-SOLUBLE PAKS: Carefully-open outer bag. Never open the water soluble pouch

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

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

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

For Residential/Household Use:

PESTICIDE DISPOSAL: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. If empty, place in trash or offer for recycling if available. If partially filled, call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

WARRANTY- NDIF IS OF SALE

OUR RECOMME (10NS) USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

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