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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

MAY 14 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 4, 2010 for:

EPA Registration 19713-301 Drexel Kop-Hydroxide

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,

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

Please read instructions of	n reverse before com	na form.		Form Approv	OMB No. 207	2-0060. Approvel expires 2-28-9
\$EPA	ر Environmenta Washi	United States I Protecti ington, DC 20	on Agency		Registration Amendme Other	Dn OPP Identifier Number
		Applicati	on for Pestic	de - Sectio	n I	
1. Company/Product Numb 19713-301	190		2. EPA Tony	Product Manage Kish	r	3. Proposed Classification
4. Company/Product (Nam DREXEL KOP HYDR	e) OXIDE		РМ# 22/Fi	ungicide Branc	h	
5. Name and Address of A Drexel Chemical Compa P.O. Box 13327 Memphis, TN 38113-032	pplicant <i>(Include ZIP Co</i> ny 7 <i>is is a new address</i>	ode)	6. Exp (b)(i), r to: EPA	edited Reveiv ny product is s Reg. No	v. In accordance imilar or identical	e with FIFRA Section 3(c)(3) I in composition and labeling
			Section -	ICT Name		
Amendment - Expla Resubmission in re Notification - Expla Explanation: Use additi Submission of revised labe	in below. sponse to Agency letter in below. onal page(s) if necessar l per PR Notice 2007-4.	r dated	on I and Section II.)	Final printed la Agency latter o "Me Too" App Other - Explain	bels in repsonse to lated ication. NO below. M	TIFICATION AY 1 4 2010
			Section -	11	· · · · · · · · · · · · · · · · · · ·	
1. Material This Product V	/ill Be Packaged In:		000000			
Child-Resistant Packaging Yes √ No * Certification must be submitted 3. Location of Net Content [√ Label [_]	Unit Packaging Yes No If "Yes" Unit Packaging wgt s Information Container	No. per container 4. Size(s) Re less that	Water Soluble I Yes Vos If "Yes" Package wgt teil Container an 5 gallons; more than 5	Packaging No. per container	2. Type of Con P G P C C C C C C C C C C C C C C C C C	ntainer Aetal Iastic Ilass aper Other (Specify) Directions
6. Manner in Which Label	s Affixed to Product	Litho Paper	graph r glued	Other _	<u> </u>	0000
		Stène	Section - I	v		ι ο ο ο ο ο ο ο ο ο ο ο
1. Contact Point (Complex	e items directly below a	for identificati	on of individual to L	e contacted. if n	ecessary, to droce	ss this application.)
Name LUZ G CHAN			Title REGISTRATION	MANAGER	o Tel 0 (3)	ephone Nos (Include Area Code) 098774-4370°°°
l certify that the stat l acknowledge that a both under applicabl 2. Signature	ements I have made or iny knowlinglly false or e law. 2010.05.04	Certific this form and misleading st	ation d all attachments th atement may be pu 3. Title REGISTRATION	ereto are true, ao nishable by fine o MANAGER	cocc courate and complo or imprisonment or	6. Detě Application Received ξις (Stamped)
	11:23:36 -0	05'00'				
4. Typed Name LUZ G CHAN			5. Date Ma	y 4, 2010		



Drexel Chemical Company

May 4, 2010

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

Re: Submission of Revised Label per PR Notice 2007-4 DREXEL KOP-HYDROXIDE (EPA Reg. No. 19713-301)

Herewith:

1. Completed EPA Form 8570-1

2. Two copies (marked and unmarked) of the label (301SP-0410*) with revised container disposal statements.

I highlighted the changes for easy reference.

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.

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Thank you.

Respectfully yours, FOR DREXEL CHEMICAL COMPANY

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 SINCE1972

NOTIFICATION

MAY 1 4 2010



Drexel

ACTIVE INGREDIENT:	
Cupric hydroxide*	37.5%
OTHER INGREDIENTS:	62.5%
TOTAL:	100.0%
*Metallic copper equivalent is 24.4%	

KEEP OUT OF REACH OF CHILDREN CAUTION

See FIRST AID Below SHAKE WELL BEFORE USING

FIRST AID

EPA Reg. No. 19713-301 EPA Est. No. 19713-XX-XXX

Net Content:

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- · Do not give any liquid to the person.
- 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 or convulsing 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 eye.
- IF ON SKIN OR CLOTHING: Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

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

Note to Physician: Probable mucosal damage may contraindicate use of gastric lavage.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if absorbed through the skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause skin sensitization in some individuals. 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 selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks, protective eyewear and dust/mist filtering respirator (MSHA/ NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P or HE filter.

(Continued)

KOP HYDROXIDE and the DREXEL logo are either trademarks or registered trademarks of Drexel Chemical Company

PRECAUTIONARY STATEMENTS (Cont.)

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

USER SAFETY RECOMMENDATIONS

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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 system(s) which contain no aluminum parts or components. Do not apply this product through any other type of irrigation system.

Crop injury, or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water 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.



Lateral Move, End Tow, A. Center Pivot, Traveler, Big Gun, Motor and Side (Wheel) Roll Irrigation Equipme 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. 2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water systems 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 no 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.

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 regulations

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 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), restricted entry interval (REI) and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. (Continued)

AGRICULTURAL **REQUIREMENTS** (Con't)

Do not enter or allow worker entry into treated areas during the restricted entry interval of 24 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, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks and protective eyewear.

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 immediatly flush their eyes using a eye-flush container.

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.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outermost nozzles on the boom must not ex-1 ceed three-fourths the length of the wingspan or rotor.
- 2 Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information that follows

Aerial Drift Reduction Advisory Information

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than 6ther orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.º
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nezzles. Solid ctream nozzles oriented straight back produce the largest droplets and the lowest drift. 00⁰

0000 **Boom Length**

For some use patterns, reducing the effective boom length to less than three-fourths of the wingspan op rater length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest heightethat is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.)

Wind

Drift potential is lowest between speeds or 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift. Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by observing the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

This pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive area).

USE SITES

Use this product as noted below. This product is adaptable to spraying from all types of spray equipment. Depending on the equipment used and the specific crop, the volume applied per acre will differ. For dilute, high volume sprays, use from 25 to 100 gallons of water per acre for most vegetable crops, 400 to 800 gallons per acre for fruit and nut crops and up to 1,500 gallons per acre as may be required for large citrus groves. For concentrate ground sprays, apply from 5 to 20 gallons per acre for vegetable crops and 25 to 100 gallons per acre for fruit and nut crops. For aerial spraying, 3 to 15 gallons per acre are commonly used. No additional surfactants are needed. Add this product slowly to a spray tank partially filled with water. Spreader-stickers, insecticides, nutrients, etc. should be added last. This product is compatible with commercially formulated spreaderstickers, oils and such insecticides as Carbaryl and other fungicides. Observe all use precautions and limitations on label of all products used in mixtures.

The following specific instructions are based on general applications. The recommendations of the State Agricultural Extension Services should be closely followed as to timing, frequency and number of sprays per season. When a range of doses are given for the use site, use the low dose when conditions are not favorable for disease development and use the high dose when conditions are favorable for disease development. Consult your State Agricultural Extension Service for guidance in determining what conditions favor diseases for the particular use site.

FROST INJURY PROTECTION

Bacterial Ice nucleation inhibitor - Application of this product made to all crops listed on this label at rates and stages of growth indicated on this label at least 24 hours and not more than 72 hours prior to anticipated frost conditions, will afford control of ice nucleating bacteria (Pseudomonas syringae, Erwinia herbicola, and Pseudomonas fluorescens) and may therefore provide some protection against light frost. 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.

Crops	, Disease Controlled	Rate per Acre
Alfalfa	Cercospora and Leptosphaerulina leaf spots	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply 10 to 14 each harvest or earlier if disease threater ground or aerial equipment. Spray injury of sensitive varities such as Lahontan.	I days before ns. Apply with may occur with
Almonds	Coryneum blight (Shot hole), Blossom brown rot	1.3 to 8 pts.
(Continued)	SPECIFIC DIRECTIONS: Apply during th stage (popcorn). A second application in before foliage buds swell may be necess rainfall occurs. A second application shou during the early bloom stage (popcorn). T injury, do not use above rate after full bloo	e early bloom late dormant ary if frequent uld be made fo avoid plant om.

Crops	Disease Controlled	Rate per Acre
Almonds <i>(Con't)</i>	Bacterial blast (Pseudomonas) SPECIFIC DIRECTIONS: Apply at dorma bud. For control in sprinkler irrigated orch disease is severe, apply 2 to 4 sprays of as many as required at two-thirds to 2 pin gallons at 2-week post bloom intervals or sprinkling. Slight leaf injury may occur fro	1.3 to 8 pts. Int to early pink ards or where this product or its per acre 100 just before m post-bloom
Apples	spray. Anthracnose, Blossom blast, European	8 to 10.4 pts.
	canker, Pseudomonas syringae SPECIFIC DIRECTIONS: Apply before F yellow varities may cause discoloration. before spraying.	all rains. Use on To avoid, pick
	Apple scab (Except CA), Fireblight SPECIFIC DIRECTIONS: Apply as a full Make application between silver-tip and g Note: Phytotoxicity may occur from late a (Discontinue use when green-tip is one-h Extended spray schedule where fruit finis concern: Continued applications at 1.3 to control Apple scab and 0.7 to 1.3 to cont be made at 5 to 7 day intervals or as nee one-half inch green-tip and first cover spr Moderate to severe crop injury may resul extended spray schedule. It is not intende marked apples or for apples where fruit fi as it is likely to cause fruit russetting. The 3 pounds of hydrated lime per 1.3 pints of may reduce crop injury. Crown or Collar rot (<i>Phytophthora cactorum</i>) SPECIFIC DIRECTIONS: Mix recommer gallons of water. Apply 4 gallons of susper drench on the lower trunk area of each tro	5.6 to 10.4 pts. cover spray. green-tip. application. alf inch.) h is not a 2.7 pints to rol Fireblight may eded between ay. t from this ed for fresh inish is a concern addition of 1 to of this product 2.6 to 5.5 pts. added rate in 100 es. Apply either h vear. Do not
Apricots	use if soil pH is below 5.5 or copper toxic Blossom brown rot. Corvneum blight	city may result.
	(Shot hole) SPECIFIC DIRECTIONS: Apply at popo as a full cover spray. To avoid spray injur after bloom.	orn to full bloom y, do not apply
Atemoya	Anthracnose SPECIFIC DIRECTIONS: Make initial ap before flowering adn repeat on a weekly just before harvest. Apply in sufficient wa	4 pts. plication just schedule until ter for thorough
Avocados	Anthracnose, Blotch, Scab SPECIFIC DIRECTIONS: Apply when blo to swell depending on equipment. Conti monthly intervals for 5 to 6 applications. F recommendations of State Agricultural Ep Stations.	5.6 to 8 pts. nom buds begin nue application at Follow speriment
Bananas	Sigatoka (Black and Yellow) SPECIFIC DIRECTIONS: Apply by air in water containing one-half gallon of agricu on a 14 day schedule throughout the wet 21 day intervals during dry periods. Black pitting SPECIFIC DIRECTIONS: Apply direct/ft and include the basal portion of the leaffor	1.3 to 2.7 pts. 3 gallons of itural oil. Apply season. Apply at ^o ^o ^o ^c ² .7 to 5.3 pts. o be cuit stem fown. Apply mercanoc
Beans	Bacterial blight (Hale and Common), Brown spot SPECIFIC DIRECTIONS: For protective: application when plants are six inches hig 14 day schedule depending on local cond to 4 pints per acre. depending on diseas	sprays apply first the Apply on 7 to ditions. Use 0.7
Blackberries (Auroras, Boysens, Cascades, Chehalems, Logans, Marions, Santiams, Thomless	Anthracnose, Leaf and Cane spot, c c Pseudomonas blight, Purple blotch, Yellow rust SPECIFIC DIRECTIONS: Apply delayed after training in Spring at 2.7 to 5.3 pints superior-type oil per 100 gallons. Apply a Spring at 2.7 pints plus 1 quart of superio 100 gallons. Make Fall spray application using 5.3 pints plus 1 quart of superior-type	cocco 2.7 to 5.3 pts. coc accordinant spray plus 1 quart of gain in late or-type oil per after harvest after harvest pe oil oer 100

Crops	Disease Controlled	per Acre
(Con't) Blackberries (Auroras	Anthracnose, Cane spot, Leaf spot, Purple blotch, Yellow rust	1.3 pts.
Cascades, Cascades, Chehalems, Logans, Marions, Santiams, Thomless evergreens)	SPECIFIC DIRECTIONS: Apply when lea open and repeat when flower buds show agricultural-type spray oil may be added. Note: Crop injury may occur if applied to certain environmental conditions such as moist periods. Discontinue applications i appear.	f buds begin to white. If needed foliage under hot or prolonged f signs of crop injury
Blueberries	Bacterial canker	2.7 to 5.3 pts.
	SPECIFIC DIRECTIONS: Make first appl Fall rains, preferably the first week in Oct application four weeks later.	ication before the ober and a second
	Pruit rot, Phomopsis, IMg blight SPECIFIC DIRECTIONS: Dormant applic applications when bloom buds begin to s additional applications at 10 to 14 day in before blooms open.	4 pts. cation: Begin well. Make tervals or as needed
Broccoli,	Downy mildew	0.7 to 1.3 pts.
Brussels sprouts, Cabbage.	SPECIFIC DIRECTIONS: Apply 0.7 to 1. of 25 gallons per acre at 7 days intervals	3 pints in a minimun
Cauliflower, Collards,	Cabbage only: Black leaf spot (Alternaria), Black rot (Xanthomonas)	2.7 pts.
Turnip greens	SPECIFIC DIRECTIONS: Apply in a min per acre at 7 to 10 day intervals.	imum of 25 gallons
Note: A slight red flecking of wrapp control of disease the field or shorth favor disease de	ddening of older leaves may occur on Brod er leaves may occur on Cabbage at the 2 e of these crops, begin application after tra y after emergence of field-seeded crops o velopment.	ccoli and a slight .7 pints rate. For ansplants are set in r when conditions
Cacao	Black pod	1.3 to 11.3 pts.
	persist. Sprays should be made as often high rainfall areas at varying rates from 1 acre, depending on disease severity. For 2 to 4 applications are reommended duri periods and at long intervals, use 4.3 to according to disease incidence and plan	as 14 to 21 days in .3 to 6 pints per drier areas, where ng critical infection 11.3 pints per acre, ting density.
Carambola	Anthracnose	8 pts.
	SPECIFIC DIRECTIONS: Make initial ap flowering and repeat on a weekly schedu harvest. Apply in sufficient water for thoro	plication just before le until just before ugh coverage.
Carrots	Alternaria leaf spot, Carrot blight (Cercospora)	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: When disease to 2.7 pints per acre at 7 to 14 day interv disease severity.	threatens, apply 1.3 rals depending on
Celery,	Early blight, Late blight, Bacterial blight	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply as soon established in the field at 1.3 to 2.7 pints 5 to 7 days depending on severity and w quarts of a suitable agricultural spray oil j used as a spreader-sticker.	as plants are first per acre, then even eather. One to 2 per acre may be
Cherry	Cornyeum blight (Shot hole), Dead bud (Pseudomonas syringae)	5.6 to 8 pts.
	SPECIFIC DIRECTIONS: Apply in the Fa rains) and again in January. In orchards v severe, a spray should also be applied s	II (before heavy Fall where the disease is hortly after harvest.
	Brown rot blossom blight	2.7 to 4 pts.
	SPEFICIF DIRECTIONS: For adequate of gallons as a full cover spray at popcorn a	control apply in 100 and full bloom.
	Cherry leaf spot (Sour Cherries Only)	
		4 to 5.3 pts.
	SPECIFIC DIRECTIONS: Apply at petal i two times after petal fall. Use the lower ra- infection is light and use the higher rates application or where disease infection is Do not apply to sweet cherries or the Eng as severe injury will result. The addition o hydrated lime per 1.3 pints of this product	4 to 5.3 pts. fail as well as one to ates where disease for a dormant moderate to heavy. Jish Morello variety f 1 to 3 pounds of t may reduce crop

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		Data			
Crops	uisease Controlled	per Acre			
hives	Downy mildew	2.7 pts.			
	SPECIFIC DIRECTIONS: Begin application established in the field. Repeat application as dictated by disease conditions.	ons when plants are ns every 7-10 days			
Citrus	Greasy spot, Melanose, Pink pitting, Scab	2.4 to 8 pts.			
	SPECIFIC DIRECTIONS: Apply as pre-bf bloom sprays. Use 2.4 to 8 pints of this p gallons acre, depending on disease seve - Apply 0.75 to 4 pints per acre using hig conditions favor disease. May be used in at equivalent rates. For aerial application, product per 10 gallons per acre. Note: In CA, in areas subject to copper in pound of high quality lime per 1.3 pints of Phytonhthora Brown rot. Sentoria soot	oom and post- roduct per 100 rity. For Greasy spot her rates when concentrate sprays use 8 pints of this njury, add 0.3 to 1 this product.			
	Phytophthora Brown rot, Septoria spot 2.7 to 5.3 pts. SPECIFIC DIRECTIONS: - Use 2.7 to 5.3 pints per acre beginning in Fall or just after the first rain and continuing as needed. For control of Brown rot spray the skirts of trees to a height of at least 4 feet. For control of Septoria spot or where fruits have already been infected with Brown rot, spray the entire tree. Also spray bare ground to one foot beyond skirt. Use higher rates when conditions favor disease. Note: In CA, in areas subject to copper injury, add 0.3 to 1 pound of bind quality lime per 1.3 pints of this product				
	Alternaria brown spot 2.7 to 5.3 pts. SPECIFIC DIRECTIONS: On susceptible varieties, apply when the first Spring flush appears and each flush thereafter. Application to fruit should start after two-thirds of the petals have fallen and be repeated on a 21 day schedule or as needed. Use the higher rates when conditions favor disease				
	Citrus canker (SUPPRESSION ONLY)	8 pts.			
	SPECIFIC DIRECTIONS: Spray flushes a shoots begin to grow. Young fruit may ne application. Number and timing of applic on disease pressure. Under heavy disea flush of new growth should be sprayed.	7 to 14 days after ed additional ations will depend se pressure, each			
	Phytophthora Foot rot	0.7 pt.			
	SPECIFIC DIRECTIONS: Mix with one q Hold [®] , or latex paint and paint trunks of tr surface to the lowest scatfold limbs. App Summer rains and/or in the Fall before w freeze protection. This treatment serves to one year, but does not cure existing in Note: Areas where microjet or low volum tree trunk may require retreatment due to	uart of water, Tre- rees from the soil by in May before rrapping trees for as protection for up fections. he irrigation hit the b wash off.			
Note: Phytoto: applied to Citri Adding foliar n product and ap are present ma	dicity may occur on young tender flush whe us seedlings grown in greenhouses or sha utritionals or other products to spray mixtu plying to Citrus during the post-bloom per ay result in spray burn.	n this product is idehouses. res containing this iod when young fruit			
Citrus (Field nursery	Melanose, Scab, Pink pitting, Greasy sp Brown rot, (Suppression of) Citrus canke	ot, 2.7 to 5.3 pts.			
	intervals or as needed depending on dis	ease severity.			
Coffee	Iron spot (Cercospora coffeicola), Pink disease (Corticium salmonicolor)	\sim 1.3 to 2.7 pts.			
	SPECIFIC DIRECTIONS: Apply 1.3 to 2.7 ping per acre as a concentrate or dilute spray. Begin treatment at start of wet season and continue at monthly intervals for three applications.				
	Leaf rust	○ 1.3 (o 10.7 pts.)			
	SPECIFIC DIRECTIONS: Apply ^{c1} .3 to 7.3 pints per acre for average density plantings. Apply 2.3 to 10.7 pints per acre for high density plantations, Apply 2.3 to 10.7 pints per acre and then at 21-day intervals while rains continue. Use higher rates when rainfall is heave and disease pressure is high.				
	Coffee berry disease (Colletotrichum	000000 0 4 to 5.3 pts.			
	coffeanum)	61.60			

Crops	Disease Controlleu	Rate per Acre
Coffee (Con't)	Bacterial Blight (Pseudomonas	4 to 5.3 pts.
	SPECIFIC DIRECTIONS: Apply 4 to 5.3 Begin spray program before the start of I then at 21 to 28 day intervals until picking time of spraying to control disease is just and after flowering(s), especially when the coincide with wet weather. Use higher rat is heavy and disease pressure is high.	pints per acre. ong rains and g. The critical t before, during, ese times es when rainfall
Cranberry	Fruit rot	5.3 to 10.7 pts.
	SPECIFIC DIRECTIONS: Apply at 5.3 to acre beginning in late bloom. One or two applications made at 10 to 14 day interva required, depending on disease pressure advice of the State Agricultural Extension	10.7 pints per additional als may be e. Follow the Service.
	Rose bloom SPECIFIC DIRECTIONS: Apply three spi	5.3 pts. rays on 10 to 14
	day schedule as soon as symptoms are	5 3 ptp
	SPECIFIC DIRECTIONS: Apply post-han Spring at bud swell. Apply one or two add applications at 10 to 14 day intervals or a depending on disease severity.	vest and again in ditional as needed
	Leaf blight, Red leaf spot, Stem blight, Tip blight (Monilinia)	5.3 pts.
	SPECIFIC DIRECTIONS: Apply delayed the Spring. Repeat at 10 to 14 day interv through pre-bloom.	dormant spray in als or as needed
Cucurbits (Cucumbers, Cantaloupes, Honeydews, Muskmelons,	Alternaria leaf spot, Angular leaf spot, Anthracnose, Downy mildew, Powdery mildew, Gummy stem blight, Watermeton bacterial fruit blotch (suppression)	1 to 4 pts.
Pumpkins, Squash & Watermelons)	SPECIFIC DIRECTIONS: Begin application conditions are favorable for disease deviat at 5 to 10 day intervals. Use higher rates favor disease. Note: Crop injury may occur from application rates and shorter intervals. Discontinue u occurs.	ion when elopment. Repeat when conditions ation at higher se if injury
Currants,	Anthracnose, Leaf spot	6.7 to 10.7 pts.
Gooseberry	SPECIFIC DIRECTIONS: Make three ap product at 6.7 to 10.7 pints per acre star before bloom and after petal fall.	plications of this ting after harvest,
Dill	Phoma leaf spot, Rhizoctonia foliage blight	2.7 to 4 pts.
	SPECIFIC DIRECTIONS: Apply 2.7 to 4 Begin applications when plants are first of field and repeat at 7 to 10 day intervals of disease severity and environmental cond rates when conditions favor disease.	pints per acre. established in the depending upon itions. Use higher
Douglas fir	Rhabdocline needlecast	2.7 pts.
	SPECIFIC DIRECTIONS: Begin applicat and repeat at 3 to 4 week intervals. Appl with another registered pesticide if mode disease pressure is present.	ions at bud break y in a tank mix erate to severe
Eggplant	Alternaria blight, Anthracnose, Phomopsis	1.3 pts.
	SPECIFIC DIRECTIONS: Use 1.3 pints of acre before disease appears. Repeat at intervals.	of this product per 7 to 10 day
Endive, Escarole	Downy mildew	0.7 to 1.3 pts.
	SPECIFIC DIRECTIONS: Begin treatmen first appears and repeat every 7 to 10 da suppress disease.	nt when disease ays as needed to
Filberts	Bacterial blight	10.4 to 16 pts.
	SPECIFIC DIRECTIONS: Apply 10.4 to as a post-harvest spray. In seasons of he another spray after the leaves have drop of a superior-type oil per 100 gallons of the	l 6 pints per acre avy rainfall, apply ped. Add 1 pint vater.
	Eastern Filbert blight	10.4 to 16 pts.
	SPECIFIC DIRECTIONS: Apply in enoug thorough coverage. Make initial applicati budbreak. Additional applications should intervals of 10 to 14 days depending on or when conditions favor disease pressu superior-type oil per 100 dallons of water	h water to obtain on at budswell to be made at disease severity re. Add 1 pint of

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Crops	Disease Controlled	Rate per Acre
inseng	Alternaria leaf blight, Alternaria stem blight	1.75 pts.
	SPECIFIC DIRECTIONS: May be applied with 2 pounds of Iprodion 50WP in 100 g per acre. Begin tank mix applications as have emerged in Spring. Applications she every seven days until plants become don Apply fungicides at least eight hours befo the fungicides time to dry on the plants. L spreader-sticker is advised. Note: Alternaria leaf and stem blight are humid conditions such as those found in in canopies of two, three, and four year old Complete and thorough spray is required	as a tank mix allons of water soon as plants ould be repeated mant in Fall. re rain, giving lse of a most severe in the dense ginseng. for control.
irapes	Black rot, Downy mildew, Phomopsis, Powdery mildew	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply 1.3 to 2. product per acre. Apply at budbreak with applications throughout the rainy season, the disease severity. Note: Slight to severe foliage injury may sensitive varieties such as Concord, Dek and Rosette. Either test for sensitivity or pounds of hydrated lime per 1.3 pints of	7 pints of this additional depending on occur on copper- aware, Niagara add 1 to 3 this product.
Buava	Anthracnose, Red algae	4 pts.
	SPECIFIC DIRECTIONS: Make initial ap before flowering and repeat on a weekly just before harvest. Apply in sufficient wa coverage.	plication just schedule until ter for thorough
lops	Downy mildew	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply as a fung treatment (after pruning, but before trainin After training, additional fungicide treatment at about 10 day intervals. Discontinue use harvest.	gicide crown ng) as needed. ents are needed e 2 weeks before
liwi	Blossom blight (Bud rot), Leaf spot (Phomopsis)	1.3 to 2 pts.
	SPECIFIC DIRECTIONS: Make two to th during dormant season. Do not apply at t leaf emergence.	ree applications ime of or after
	Pseudomonas syringae, Erwinia herbicola, Pseudomonas fluorescens	10.4 pts.
	SPECIFIC DIRECTIONS: Apply in 200 g per acre. Make applications on a monthly maximum of 3 applications may be made	allons of water / basis. A e.
.ettuce	Downy mildew	0.7 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply 0.7 to 2. product per acre. Begin treatment when a appears and repeat every 7 to 10 days a suppress disease.	7 pints of this disease first as needed to
.itchi	Anthracnose	4 pts.
	SPECIFIC DIRECTIONS: Make initial ap before flowering and repeat on a weekly just before harvest. Apply in sufficient wa coverage.	plication just schedule until ter for thorough
.ive oak	Ball moss	4 to 8 pts.
	SPECIFIC DIRECTIONS: Apply in 100 g Spring after heavy rain, using 1.5 gallors of tree height. Make sure to wet turfs thoi application may be required after 12 mor Note: This product may be injurious to grown under live oaks.	ຊາເດກູs of water in of spray per foot ວິບຊີກ່າງ. A second nthc.c c ວູກາຣ ວິກຸລmentals
Aacadamia nuts	Anthracnose c c c	8 pts.
	SPECIFIC DIRECTIONS: Initiate sprays, flowering and repeat on a weakly schedul before harvest. Apply in sufficient water of coverage.	at first sign of ile until just or ເກຍເວັບgh
	Blossom blight, Raccmeັ blight	0 4 to 8 pts.
	SPECIFIC DIRECTIONS: Apply 4 to 8 pi depending on disease pressure, in 50 to	nts per acre, 360 gallons of

Crops	Disease Controlled	Rate per Acre
Mamey sapote	Anthracnose, Algal leaf spot	8 to 10.4 pts.
	SPECIFIC DIRECTIONS: Apply when co disease development. Repeat on 14 to 3 as disease severity and environmental cc Use higher rates when conditions favor d	nditions favor 0 day schedule onditions dictate. isease.
Mango	Anthracnose	5.3 to 13.3 pts.
	SPECIFIC DIRECTIONS: Apply monthly after fruit set until harvest at 5.3 to 13.3 pints of this product per acre depending on equipment. Consult Extension Service for State recommendations.	
Olives	Peacock spot, Olive knot	5.6 to 16 pts.
	SPECIFIC DIRECTIONS: Make first appl 16 pints per acre before Winter rains fall. application in early Spring should be mad severe.	ication at 5.6 to A second de if disease is
Onion, Garlic	Downy mildew, Purple blotch	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply when pla inches high and repeat at 7 to 10 day into	ents are 4 to 6 ervals.
Papaya	Anthracnose	2 to 6.7 pts.
	SPECIFIC DIRECTIONS: Apply beginnin is expected to appear. Repeat at 10 to 1 at 5 to 7 day intervals during periods of I the higher rates when conditions favor di addition of a suitable spreader-sticker, si may be desirable especially during perio rains.	g before disease 4 day intervals or neavy rainfall. Use sease. The uch as Kinetic [®] , ds of heavy
Parsley	Bacterial blight (Pseudomonas sp.)	4 pts.
	SPECIFIC DIRECTIONS: Begin applicat are first established in the field and reper intervals depending upon disease severi environmental conditions.	ions when plants at at 5 to 7 day ty and
Passion fruit	Anthracnose	8 pts.
	SPECIFIC DIRECTIONS: Make initial ap before flowering and repeat on a weekly just before harvest. Apply in sufficient wa coverage.	plication just schedule until ter for thorough
Peaches, Nectarines	Bacterial blast (<i>Pseudomonas</i>), Bacterial canker, Coryneum blight (Shot hole), Leaf curl	5.6 to 21.6 pts.
	SPECIFIC DIRECTIONS: Apply 5.6 to 2 after leaf fall as dormant application. Use when rainfall is very heavy and disease p May be used with an agricultural spray of	1.6 pints per acre the higher rate pressure is high.
	Blossom blight, Brown rot, Leaf curl	5.6 to 8 pts.
	SPECIFIC DIRECTIONS: Apply at 5.6 to as a full cover spray at pink bud. (Applica also affords some control of Coryneum b curl).	8 pints per acre ation at this time light and Leaf
	Bacterial spot	0.7 to 5.3 pts.
	SPECIFIC DIRECTIONS: Apply at 5.3 pi dormant spray. Post-bloom, apply 0.7 pir and second cover sprays. Do not spray I weeks prior to harvest. Do not use at rat recommended. Note: Slight defoliation and spotting of ke from use in cover sprays.	nts per acre as a it per acre at first ater than three es above those eaves may occur
Peanuts	Cercospora leaf spot	1 to 4 pts.
	SPECIFIC DIRECTIONS: Begin spraying after planting or when disease symptoms ground or aerial application at 1 to 4 pin aerial application, use 3 to 10 gallons of application at 10 to 14 day intervals. Use to get adequate coverage. This product mixed with flowable sulfur products. Redu to 7 days during humid weather. Use hig conditions favor disease.	3 35 to 40 days s appear. Make ts per acre. For water. Continue s sufficient water may be tank- uce spray interval her rates when

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	(Rate		
Crops	Disease Controlled	per Acre		
Pears	Fire blight	0.7 to 1.3 pts.		
	SPECIFIC DIRECTIONS: Apply at 0.7 to 1.3 pints per acre at 5 day intervals throughout bloom period.			
	Pseudomonas blight	8 to 10.4 pts.		
	SPECIFIC DIRECTIONS: Apply this prod rains at a rate of 8 to 10.4 pints per acre dormant before Spring growth starts. Exc may cause Fruit russet.	uct before Fall and again at essive dosages		
Peas	Powdery mildew	1 to 4 pts.		
	SPECIFIC DIRECTIONS: Begin spray tre disease symptoms first appear. Use at 1 acre according to disease severity. Repe at weekly intervals.	eatment when to 4 pints per at applications		
Pecans	Shuck and Kernel rot (Phytophthora cactorum), Zonate leaf spot (Cristulariella pyramidalis)	2.7 to 5.3 pts.		
	SPECIFIC DIRECTIONS: For suppression sufficient water for good coverage at 2 to starting at kernel growth and continuing u Use the higher rate and shorter intervals occurs.	on, apply in 4 week intervals ntil shucks open. if frequent rainfall		
	Mosses, Algae, Lichen	16 pts.		
	SPECIFIC DIRECTIONS: Mix 1 gallon per 100 gallons spray plus spreader-sticker, such as Kinetic [®] , on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.			
Peppers	Anthracnose, Bacterial spot, Cercospora leaf spot	1.3 to 4 pts.		
	SPECIFIC DIRECTIONS: When disease threatens, apply 1.3 to 4 pints per acre in sufficient water for adequate coverage at 7 to 14 day intervals, depending on disease severity			
Pistachios	Botrytis blight, Botryosphaeria Panicle and shoot blight, Septoria leaf blight, Late blight (<i>Altemaria</i>)	5.6 to 10.4 pts.		
	SPECIFIC DIRECTIONS: Make initial ap swell and repeat on a 14 to 28 day sche rates when conditions favor disease.	plication at bud dule. Use higher		
Plums, Prunes	Coryneum blight (Shot hole)	5.6 to 21.6 pts.		
	SPECIFIC DIRECTIONS: Apply as a dout the higher rate when rainfall is heavy and pressure is high.	mant spray. Use I/or disease		
	Brown rot blossom blight	5.6 to 16 pts.		
	SPECIFIC DIRECTIONS: Apply as full co at pink, red or early white bud stage. Use when disease pressure is heavy or cond disease development.	over application the higher rate itions favor		
	Black knot (Plum)	2.6 to 5.3 pts.		
	SPECIFIC DIRECTIONS: Make an appli swell up to early bloom for early season, suppression. Apply before full bloom. Us when rainfall is heavy and disease press Note: To avoid plant injury, do not use a	cation at bud disease e the bigher rates the fs high. ter full:bloom.		
Potatoes	Early and Late blight	0.9 to 4 pts.		
	SPECIFIC DIRECTIONS Apply at 7 to 1 starting when plants are six inches high before harvest. Use 077 to 2 wints per ac locations where disease is light. Use 2 to where disease is more severe.	0 day intervals infli two weeks radio those of prints per acre		
	Colorado potato bect/s (Suppression Only)	۵ 0.7 to 4 pts.		
	SPECIFIC DIRECTIONS: Use rates and	timing identical		

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Crops	Disease Controlleur	Rate
Quince	Fire blight	1.3 ofs.
	SPECIFIC DIRECTIONS: Apply at 5 day bloom period. Apply in adequate water fo coverage.	intervals through or thorough
Raspberry	Anthracnose, Leaf Spot, Cane spot, Pseudomonas blight, Purple blotch, Yellow rust	2.7 to 5.3 pts.
	SPECIFIC DIRECTIONS: Apply as a dela spray after training in the Spring. Make F after harvest. Add 1 quart of crop oil per	ayed dormant all application acre.
	Anthracnose, Leaf Spot, Cane spot, Purple blotch, Yellow rust	1.3 pts.
	SPECIFIC DIRECTIONS: Apply when lead open and repeat when flower buds show agricultural-type spray oil may be added. Note: Crop injury may occur if applied to certain environmental conditions such as moist periods. Discontinue applications i injury appear.	f buds begin to white. If needed, foliage under hot or prolonged f signs of crop
Spinach	Anthracnose, Blue mold, Cercospora leafspot, Down mildew, White rust	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Begin treatmer first appears and repeat every 7 to 10 da suppress disease.	nt when disease ays as needed to
Strawberries	Downy mildew, Leaf blight, Leaf scorch, Leaf spot	1.3 to 4 pts.
	SPECIFIC DIRECTIONS: Apply at 1.3 to Begin application when plants are establ continue on a weekly schedule throughou Discontinue applications if signs of obvio	4 pints per acre. ished and t season. toxicity appear.
Sugar apple	Anthracnose	16 pts.
(Annona)	SPECIFIC DIRECTIONS: Make initial ap before flowering and repeat on a weekly just before harvest. Apply in sufficient wa coverage.	plication just schedule until ter for thorough
Sugar beets,	Cercospora leaf spot	1.3 to 6.7 pts.
	SPECIFIC DIRECTIONS: Start spray what threatens and continue 4 to 5 application 14 day intervals, depending on weather co to 6.7 pints per acre, depending on disea Addition of suitable agricultural spray oil	en disease is. Spray at 10 to conditions, at 1.3 ase severity. is recommended.
Sycamore	Anthracnose	1.3 to 4 pts.
	SPECIFIC DIRECTIONS: Make two appl 1.3 to 4 pints per 100 gallons as a full co first application at bud crack and second 14 days later at 10% leaf expansion.	ications using ver spray. Make application 7 to
Tomatoes	Early blight	1.3 to 4 pts.
	SPECIFIC DIRECTIONS: When disease 1.3 to 4 pints per acre at 7 to 10 day inte	threatens apply nvals.
	Bacterial speck	1.3 to 2.7 pts.
	SPECIFIC DIRECTIONS: Apply at 1.3 to acre at 10 to 30 day intervals beginning threatens. Use more frequent application pressure is high.	2.7 pints per when disease s when disease
	Bacterial spot, Anthracnose, Gray leaf mold, Gray leaf spot, Septoria leaf spot, Late blight	1.3 to 5.3 pts.
	SPECIFIC DIRECTIONS: When disease 1.3 to 5.3 pints per acre at 7 to 10 day in frequently when disease is severe.	threatens apply tervals, more
Walnut	Walnut blight	5.3 to 17 pts.
	SPECIFIC DIRECTIONS: Apply first spra bloom when catkins are partially expande additional applications during bloom and stages at 7 to 10 day intervals. Additional may be necessary when frequent rainfall	ey at early pre- ed. Make three early nutlet al applications occurs.
	Apply 5.3 to 17 pints per acre. Do not ap pints per acre per application.	oply more than 17

Crops	Disease Controlled	Rate per Acre
Watercress	Cercospora leaf spot	2.7 pts.
	SPECIFIC DIRECTIONS: Begin applicati are first established in the field, repeating intervals depending on disease severity a environmental conditions. Do not exceed per crop. Apply using ground spray equip than 50 gallons of spray solution per acree	on when plants at 7 to 14 day and 4 applications ment at no less 5.
Wheat, Barley, Oats	Helminthosporium spot blotch, Septoria leaf blotch	1 to 1.3 pts.
	SPECIFIC DIRECTIONS: Apply 1 to 1.3 p Make first application at early heading an second application 10 days later.	pints per acre. Id follow with

SEED DRESSING

Crops	Disease Controlled	Rate per 1,000 lbs. of Seed	
Rice (Not for use in	Water mold (Achlya spp), Seed rot (Pythium spp.)	2 to 4 fl. ozs.	
	SPECIFIC DIRECTIONS: Use at a rate of ounces for each 100 pounds of Rice see handling and when using a seed treating with an equal amount of water. Maintain of agitation of the mixture throughout the op State Agricultural Experiment Station regi- recommendations for your area.	ONS: Use at a rate of 2 to 4 fluid pounds of Rice seed. For ease of sing a seed treating machine, dilute at of water. Maintain continuous ure throughout the operation. Consult periment Station regarding specific or your area.	
Wheat, Barley (Not for use in CA)	rley Bacterial leaf blight (<i>Pseudomonas</i> 2 s in syringae), Bacterial leaf streak (Xanthomonas translucens), Common bunt (<i>Tilletia caries</i>)		
	SPECIFIC DIRECTIONS: Apply at the rate of 2 fluid ounces of formulated product per 100 pounds of seed. It should be diluted with equal parts of water before applying.		

TURFGRASS

Crops	Disease Controlled	Rate per Acre
Turfgrass	Algae	0.7 pt. per 1,000 sq. ft.
	SPECIFIC DIRECTIONS: Apply per 1,00 5 gallons of water. May be used as a ma as needed. May be used alone or in com fungicides such as dithiocarbamates. Ph depend on varietal differences. Apply the rate to a small area and observe 7 to 10 phytotoxicity. If phytotoxicity occurs, disco	0 square feet in intenance spray ibination with ytotoxicity may recommended days for ntinue use.

GREENHOUSE AND SHADEHOUSE CROPS

Notice to User: This product may be used in greenhouses and shadehouses to control diseases on crops which appear on this label, and specific instructions have been developed for the crops listed. The grower should bear in mind that the sensitivity of crops grown in greenhouses and shadehouses differs greatly from crops grown under field conditions. Neither the manufacturar nor cseller has determined whether or not this product can be used Safely on all greenhouse and shadehouse grown crops. The user should determine if this product can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e., foliage, fruit, etc., and objective for 7 to 10 days for symptoms of phytotoxicity prior to commercial GSE^{α}

Apply this product according to specific roles give cfree those crops in pints per acre. One tablespoon of this product per 1000 square feet is equivalent to 1 pint per acre. This product should be applied in adequate water for thorough coverage of phalit parts. Begin application at first sign of discuse cand repeat at 7 to 14 day intervals or as needed; Use shorter spray intervals during periods when severe disease conditions persist.

Note: Phytotoxicity may occur on young tender flush when this product is applied to Citrus seedlings grown in group houses or shadehouses.

GREENHOUSE AND SHADEHOUSE CRO (Con't)

Crops	Disease Controlled	Rate per 1000 sq. ft.	
Citrus (Non- bearing nursery)	Brown rot, Citrus canker, Greasy spot, Melanose, Pink pitting, Scab	3 tbsps.	
	SPECIFIC DIRECTIONS: Begin application when disease first threatens. Repeat at 30 day intervals or as needed depending on disease severity.		
Cucumber	Angular leaf spot, Downy mildew	1 to 2 tbsps.	
	SPECIFIC DIRECTIONS: Apply weekly when plants to vine. Use the higher rates when conditions favor disease.		
Eggplant	Alternaria blight, Anthracnose, Phomopsis	1.5 tbsps.	
	SPECIFIC DIRECTIONS: Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity.		
Pepper	Bacterial spot	1.5 to 2 tbsps.	
SPECIFIC DIRECTIONS: Begin applications conditions first favor disease development at 5 to 10 day intervals or as needed dependin severity. Use the higher rates when condition disease.		ions when nt and repeat at nding on disease itions favor	
Tomato	Anthracnose, Bacterial speck, Bacterial spot, Early blight, Gray leaf mold, Late blight, Septoria leaf spot	1.5 to 3 tbsps.	
	SPECIFIC DIRECTIONS: Begin applications when disease first threatens and repeat at 5 to 10 day intervals or as needed depending on disease severity. Use the higher rates when conditions favor disease.		

ORNAMENTALS

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

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

Apply as a thorough coverage spray using 1.3 pints 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.

For ornamental crops in dormancy, apply as a thorough cover spray at rates ranging from 0.7 to 2.7 pints per acre of this product. When new growth is present, apply as thorough cover spray at 0.7 to 2 pints per acre. One tablespoon of this product per 1,000 sq. ft. is equivalent to 1 pint per acre.

This product may be used as a maintenance spray alone or in combination with other fungicides such as the dithiocarbamates. **Note:** This product may be reactive on masonry, and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.

ORNAMENTAL	DISEASE
Aglaonema*	Bacterial leaf spot
Althea (Rose of Sharon)	Bacterial leaf spot
Andromeda, Japanese*	Leaf spot, Twig blight
Aralia	Xanthomonas and Cercospora leaf spots, Alternaria
Arborvitae	Alternaria twig blight, Cercospora leaf blight
Aster*	Downy mildew, Leaf spots
Azalea ¹	Cercospora leaf spot, Botrytis blight, Phytophthora dieback, Powdery mildew
Beech*	Leaf spots
Begonia	Bacterial leaf spot, (Ervinia, Pseudomonas, Xanthomonas), Anthracnose
Bougainvillea	Anthracnose, Bacterial leaf spot

(Continued)

(Con't)

ORNAMENTAL	DISEASE	
Boxwood*	Leaf spots	
Bulbs (Easter Lily**, Tulip, Gladiolus)	Anthracnose, Botrytis blight	
Camellia	Anthracnose, Bacterial leaf spot	
Camphor tree	Pseudomonas leaf spot	
Canna	Pseudomonas leaf spot	
Carnation'	Alternaria blight, Pseudomonas leaf spot, and Botrytis blight	
Cedar*	Tip blight	
Cherry, Nanking*	Bacterial leaf spot	
Chinese tallow tree	Bacterial leaf spot (Xanthomonas spp., Pseudomonas spp.)	
Chrysanthemum ¹	Septoria leaf spot, Pseudomonas leaf spot and Botrytis blight	
Cotoneaster	Botrytis blight	
Crabapple*	Fire blight	
Cypress*	Twig blight	
Dahlia	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot	
Delphinium*	Leaf spots	
Dianthus	Bacterial spot, Bacterial soft rot	
Dogwood (flowering)	Anthracnose	
Dogwood, Kousa*	Fungal leaf spots	
Douglas Fir	Rhabdocline needlecast	
Dracaena*	Bacterial leaf spot	
Dumb cane* (Dieffenbachia spp.)	Bacterial leaf spot	
Dusty miller	Bacterial leaf spot (Pseudomonas cichorii)	
Echinacea	Bacterial leaf spot (Pseudomonas cichorii)	
Elm "Drake"	Xanthomonas leaf spot	
Euonymus	Botrytis blight and Anthracnose	
European fan palm	Pestalotia leaf spot	
Fern, Boston* (Nephrolepis exaltata)	Bacterial leaf spot	
Fern, Holly (Cyrtornium falcatum)	Pseudomonas leaf spot	
Fig, Weeping* (Ficus benjamina)	Bacterial leaf spot	
Filbert (Ornamental)*	Filbert blight	
Fir*	Needlecasts	
Gardenia	Alternaria leaf spot, Botrytis bud rot, Cercospora leaf spot	
Geranium	Alternaria leaf spot, Botrytis gray mold, Cercospora leaf spot	
Gladiolus	Alternaria leaf spot, Anthracnose, Botrytis gray mold, Bacterial leaf blight	
Golden rain tree	Bacterial leaf spot	
Grape ky*	Bacterial leaf spot	
Hawthorn*	Fire blight ccco	
Hibiscus ²	Bacterial leaf spot	
Holly*	Leaf spots, Bacterial blight	
Honeylocust*	Bacterial leaf spot	
Honeysucide, Tatarian*	Bacterial leaf spot	
Impatiens	Bacterial leaf spot	
Indian hawthorn ³	Anthracnose Enionosporium (auf spot	
lris ⁵	Bacterial lear ຣິກົບໃ	
My1	Xanthomonas leaf spot	
bxora	Xanthomonas leaf spot	

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ORNAMENTAL	DISEASE		
Juniper	Anthracnose, Phomopsis twig dieback*		
Lantana	Bacterial leaf spot		
Levland Cypress*	Cercospora needle blight		
Lilac	Cercospora leaf spot. Pseudomonas blight		
Lily, Easter	Botrytis blight		
Linden*	Anthracnose, Leaf blight		
Lobioliv bay	Anthracnose		
Loguat	Entomosporium maculata. Colletotrichum sp.		
Magnolia (Southern)	Algal leaf spot, Anthracnose, Bacterial leaf spot		
Magnolia (Sweet bay)	Anthracnose		
Magnolia (Oriental)	Bacterial leaf spot		
Mandevillas	Anthracnose		
Maple*	Pseudomonas leaf blight		
Marigold	Alternaria leaf spot, Botrytis leaf and Flower rot, Cercospora leaf spot		
Mountain-Ash*	Fire blight		
Mulberry, Contorted*	Bacterial leaf spot		
Mulberry, weeping	Bacterial leaf spot		
Narcissus*	Leaf blight		
Nephthytis*	Bacterial leaf spot		
Oak*	Leaf spots		
Oak, Laurel	Algal leaf spot (Cephaleuros virescens)		
Oleander	Bacterial leaf spot, Fungal leaf spot		
Oregon Grapeholly*	Leaf spots		
Pachysandra	Volutella leaf blight		
Palm, Date	Pestalotia leaf spot		
Palm, European fan	Pestalotia leaf spot		
Palm, Parlor*	Bacterial leaf spot		
Palm, Queen	Exosporium leaf spot, Phytophthora bud rot		
Palm, Washingtonia	Pestalotia leaf spot		
Pansy	Downy mildew		
Peach (Flowering)6	Bacterial blast, Brown rot, Fire blight		
Pear (Flowering)	Fireblight, Leaf spot		
Pentas (Egyptian star)	Bacterial leaf spot (Xanthomonas spp., Pseudomonas spp.*)		
Peony	Botrytis blight		
Periwinkle	Phomopsis stem blight		
Philodendron	Bacterial leaf spot		
Phlox	Alternaria leaf spot		
Photinia (Red tip)	Anthracnose, Entomosporium leaf spot		
Pine*	Needlecasts		
Pistachio	Anthracnose		
Plantain lily ^s	Bacterial leaf spot		
Plum (Flowering) ⁶	Bacterial blast, Bacterial leaf spot, Brown rot, Fire blight		
Pothos*	Bacterial leaf spot		
Powder puff plant	Bacterial leaf spot		
Pyracantha	Fireblight and Scab		
Rhododendron	Alternaria flower spot		
Rose ¹	Powdery mildew, Black spot		
Snapdragon	Anthracnose, Dieback, Downy mildew		
Spathe Flower*	Bacterial leaf spot		
Spirea*	Fire blight		
Spruce*	Needlecasts		
Sycamore	Anthracnose, Leaf spots*		

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ORNAMENTAL	DISEASE	
Tulip	Anthracnose, Botrytis blight	
Umbrella tree*	Bacterial leaf spot	
Verbena	Xanthomonas leaf spot	
Viburnum	Anthracnose	
Viola (Pansy, Violet)	Downy mildew	
Weeping willow	Anthracnose	
Yew*	Needle blight	
Yucca (Adams needle)	Cercospora and Septoria leaf spot	
Zinnia* Zinnia spp.	Leaf spots	
 * Except CA ** For Easter Lity, use 4 to 6.7 pints per 100 gallons. 1 Discoloration of foliage and/or blooms have been noted on some 		

varieties. To prevent residues on commercial plants, do not sprav just

before selling season.

² Do not apply to Hibiscus in flower.

³ For Indian hawthorn, use 2.7 to 5.3 pints per 100 gallons.

Apply this product at 2 to 3.5 pints per acre.

⁵ Some cultivars may be sensitive to this product. ⁶ Apply dormant through bloom only.

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.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. **PESTICIDE STORAGE:** Store unused product in original container only in cool, dry area out of reach of children and animals. PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration if allowed by State and Local authorities. If burned, stay out of smoke. CONTAINER DISPOSAL:

Nonrefillable Container (rigid material; less than 5 gallons): 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 and drain for 10 seconds after the flow begins to drip. 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 material; 5 gallons or greater): 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. 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 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 Containers: Refillable container. RefilP 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 container. container before final disposal, empty the remaining contents from this container into application equipment or mix tank Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system, Repeat this rinsing procedure two more times.

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STORAGE AND DIS JSAL (Cont.) 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.

JITIONS OF SALE WARRANTY-C

OUR RECOMMENDATIONS FOR USE of this product are based upor 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.

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