

19713-290

8/25/2010

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

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

AUG 25 2010

Subject: Label Amendment
EPA Reg. No.: 19713-390 / KOP-Oxy 85

Dear Ms. Chan:

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

A stamped copy of the label is enclosed for your records. This label supersedes all other previously accepted labels. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.

Sincerely,

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

Tony Kish
Product Manager 22
Fungicide Branch
Registration Division

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ACCEPTED

AUG 25 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 19713-390



KOP-Oxy 85

Agricultural Fungicide

ACTIVE INGREDIENT:

Copper oxychloride* 85.0%

OTHER INGREDIENTS: 15.0%

TOTAL: 100.0%

* [CAS No. 1332-40-7]

* Metallic copper equivalent is 50.6%.

KEEP OUT OF REACH OF CHILDREN

WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See FIRST AID Below

EPA Reg. No. 19713-390

EPA Est. No. 19713-XX-XXX

Net Content: _____

FIRST AID
<p>IF IN EYES:</p> <ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for treatment advice.
<p>IF SWALLOWED:</p> <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
<p>IF INHALED:</p> <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>IF ON SKIN OR CLOTHING:</p> <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.</p>
<p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.</p>

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed, if absorbed through skin, or if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust.

(Continued)

PRECAUTIONARY STATEMENTS (Cont'd)

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Mixers, loaders, applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks, and goggles or face shield.

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Wash the outside of gloves before removing. 4) Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Do not apply directly to water, to areas where surface is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in waters adjacent to treated areas.

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, 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.

(Continued)



Manufactured By:
Drexel Chemical Company
P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

AGRICULTURAL USE REQUIREMENTS (Cont.)

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

Do not enter or allow worker entry into treated areas during the REI of 48 hours. For greenhouse uses, do not enter or allow worker entry into treated areas during the REI of 24 hours. For at least seven days following the application of copper-containing product in greenhouses:

- at least one container or station designed specifically for flushing eyes is available in operating condition with the WPS-required decontamination supplies for workers entering the area treated with copper-containing products,
- workers are informed orally in a manner they can understand:
 - that residues in the treated area may be high irritating to their eyes,
 - that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes,
 - that if they do get residues in their eyes, they should immediately flush their eyes with the eye flush container that is located with the decontamination supplies and
 - how to operate the eye flush container or eye flush station.

PPE required for early entry into 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 over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, and chemical-resistant apron when mixing, loading, cleaning equipment or spills, or otherwise exposed to the concentrate.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

USE INSTRUCTIONS

KOP-OXY 85 may be applied aerially or by dilute or concentrate ground sprayers on crops and at rates given on this label unless specifically prohibited for that crop use. Sufficient spray volume and spray pressure are essential to thoroughly penetrate the plant canopy and give thorough spray coverage at the time indicated. On crops sensitive to copper fungicides use the higher volumes of spray water per acre.

Use the higher dosage rates for this product on mature trees or when disease pressure is severe or weather conditions warrant.

When using adjuvants or other pesticides in combination with this product, always observe the precautionary statements on the product's label and the required days before harvest. Sprays of this product may be applied up to day of harvest. Product is exempt from a residue tolerance.

Before mixing with other products in spray tank, be sure that products are compatible. This product should not be applied in spray water having a pH of less than 6.5 as phytotoxicity may result. Also avoid using water having a pH of greater than 9.0 as effectiveness may be reduced.

Do not allow mixture to stand in application or irrigation equipment. Copper containing pesticide solutions can react with soft metals such as aluminum and some materials such as plastic and rubber. Thoroughly flush equipment containing copper (containing pesticide solutions), with water after use each day.

MINIMUM RECOMMENDED SPRAY VOLUME

In gallons per acre (GPA)

If crop is sensitive to copper sprays, higher volumes of spray water will decrease potential injury. A full dilute spray on tree crops means the maximum amount of spray, uniformly applied, that an acre of such trees will hold to the point that excess spray begins to drip off. Thus, the dilute spray volume per acre will depend on tree size and leaf surface area per acre. The following listed dilute spray volume is the volume that will generally provide such coverage on an acre of average size, full-leaf trees. A concentrate spray is a spray applied in less volume than a dilute. The extent of the concentration varies by the equipment used. Thus, the following spray volumes for a concentrated spray are the minimum volumes recommended per acre.

GROUND SPRAYS — CONCENTRATED AND DILUTE

CITRUS — Concentrate: 100 GPA (FL 50 GPA).

Dilute: 800 to 1,000 GPA on mature trees and decrease towards 100 GPA as tree size decreases.

FRUIT AND NUT TREES — Concentrate: 50 GPA.

Dilute Spray: 250 GPA for mature fruit trees and 400 to 800 GPA for other tree crops depending on size. (On young fruit tree plantings, use a minimum of 15 gallons spray per acre.)

VEGETABLE AND FIELD CROPS — Concentrate: 20 GPA.

Dilute: 100 to 125 GPA

AIR APPLICATION

For vegetables and field crops use 3 to 20 gallons per acre.

For tree crops, use 10 to 20 gallons per acre.

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, traveling 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 safety device for public water systems is 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.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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

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

The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

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

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

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

SPRINKLER CHEMIGATION

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

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

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump.

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tion pump and connected to the system in order to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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

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

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

MIXING INSTRUCTIONS FOR SPRAY APPLICATION

Fill the spray tank one-fourth to one-third full with clean water. Start agitation.

(Note: Proper agitation creates a rippling or rolling action on the liquid surface.) Add this product at the specified rate.

Mix thoroughly and then add enough water to fill spray tank. Maintain sufficient agitation during mixing and during application of sprays to ensure a uniform spray mixture. When tank mixing with other pesticides, add wettable powders or dry flowables first and emulsifiable concentrates or spreader-stickers last. Be sure that prior product is well mixed and suspended before adding a second pesticide.

APPLICATION RATES

FROST INJURY PROTECTION

Bacterial ice nucleation inhibitor – Applications of this product 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 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.

Fruit/Nut Crops	Disease / Pest	Rate of This Product per Acre
Almonds	Brown rot blossom blight, Coryneum blight (Shot hole), Twig blight	See Use Instructions
	USE INSTRUCTIONS: Apply in dormant stage before buds begin to swell at the rate of 8 to 12 lbs. per acre. Use the higher rate during wet seasons or when disease pressure is high. Use 2.9 lbs. of this product in prebloom, at bud swell, and petal fall stages.	
Use Restrictions: During the dormant or late dormant period, do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (2.9 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (35.6 lbs. of this product) per acre per year.		
Apples	Anthracnose, European canker, Pseudomonas	12 to 15.8 lbs.
	USE INSTRUCTIONS: Apply at 10% and 80% leaf fall but before Fall rains. Repeat before Winter pruning. If Fire blight spray is not made, repeat between silver-tip and green-tip at the rate of 11.9 lbs. per acre, but do not use after green-tip exceeds 0.5 inch.	
	Fire blight	See Use Instructions

Fruit/Nut Crops	Disease / Pest	Rate of This Product per Acre
Apples (Cont.)	USE INSTRUCTIONS: Make first application between silver-tip and green-tip at the rate of 8 to 11.9 lbs. per acre, but do not use after green-tip exceed 0.5 inch as phytotoxicity may occur. During bloom, apply at the rate of 1 to 1.5 lbs. per acre as dilute cover spray. Begin at 10% bloom repeat at 5-day intervals until bloom is over.	
	Note: Spraying of fruit on yellow varieties will cause fruit russetting. Non-yellow varieties may differ in susceptibility to copper resulting in russetting or injury. Where possible, pick before spraying if a potential problem.	
Use Restrictions: During the Fall or late dormant period, do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per application. Between silver-tip and green-tip, do not apply more than 6 lbs. of copper (11.9 lbs. of this product) per acre per application. Only one application is permitted per season. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (2.9 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 16 lbs. of copper (31.6 lbs. of this product) per acre per year.		
Apricots	Coryneum blight (Shot hole), Brown rot blossom blight, Twig blight	See Use Instructions
	USE INSTRUCTIONS: Apply in Fall dormant period at the rate of 8 to 12 lbs. per acre. Repeat at popcorn to full bloom at the rate of 2.9 lbs. per acre.	
Use Restrictions: During the dormant or late dormant period, do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (2.9 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (35.6 lbs. of this product) per acre per year.		
Avocados	Scab	6.2 lbs.
	USE INSTRUCTIONS: Begin spray when bloom bud begins to swell. Addition of a spreader-sticker is recommended, especially when rainfall is heavy and frequent.	
Use Restrictions: Do not apply more than 3.15 lbs. of copper (6.2 lbs. of this product) per acre per application. Do not apply more than 18.9 lbs. of copper (37.4 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Bananas	Sigatoka	2 lbs.
	USE INSTRUCTIONS: Apply by air in 3 gals. of water containing 0.5 gal. of agricultural oil. Apply on a 7 day schedule.	
	Black pitting	See Use Instructions
USE INSTRUCTIONS: Apply 2 lbs. per 100 gals. directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second week after emergence.		
Use Restrictions: Do not apply more than 1.05 lbs. of copper (2 lbs. of this product) per acre per application. Do not apply more than 18.9 lbs. of copper (37.4 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Berries (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)	Anthracnose	3.9 lbs.
	USE INSTRUCTIONS: Begin spray when leaf buds begin to open. Repeat when flower buds show and continue at 7 day intervals.	
	Cane spot, Leaf spot, Yellow rust	See Use Instructions
USE INSTRUCTIONS: In Spring sprays, use 3.9 lbs. per acre and apply when leaf buds begin to open and repeat when flower buds show white. Also, make a postharvest spray after pruning but before Fall rains combined with a spreader-sticker.		
Use Restrictions: Do not apply more than 2 lbs. of copper (3.9 lbs. of this product) per acre per application. Do not apply more than 10 lbs. of copper (19.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Cacao	Black pod	3 to 4.4 lbs.
	USE INSTRUCTIONS: Begin application at the start of the rainy season and continue while conditions persist for infection. Sprays should be made as often as 14 days in high rainfall areas depending on disease severity. For drier areas, 2 to 7 applications are recommended during critical infection periods depending on the disease incidence and planting density. Use the higher rates for heavier disease pressure and denser plantings. (Continued)	

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Fruit/Nut Crops	Disease / Pest	Rate of This Product per Acre
Cacao (Cont.) Use Restrictions: Do not apply more than 2.25 lbs. of copper (4.4 lbs. of this product) per acre per application. Do not apply more than 15.75 lbs. of copper (31.1 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Cherries	Blossom blight, Brown rot, Twig blight, Leaf spot	2.9 lbs.
	USE INSTRUCTIONS: Apply at popcorn, full bloom and petal fall. Do not apply after petal fall stage.	
Use Restrictions: During the bloom or growing period, do not apply more than 1.5 lbs. of copper (2.9 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (35.6 lbs. of this product) per acre per year.		
Citrus (Grapefruit, Kumquat, Lemon, Lime, Orange, Pummelo, Tangelo, Tangerine)	Melanose, Pink pitting, Scab (except TX)	See Use Instructions
	USE INSTRUCTIONS: Apply 1.5 lbs. per 100 gals. by dilute spray or 6.2 lbs. per acre by concentrate or aerial spray. Apply at beginning of dormant season. Repeat at two-thirds petal fall and again when fruit is one-half inch in diameter and thereafter. In TX, use 5 to 6.2 lbs. per acre with above timings. For Pink pitting, apply about mid-July in FL.	
	Greasy spot	See Use Instructions
	USE INSTRUCTIONS: Use 0.75 to 1.5 lbs. per 100 gals. by dilute spray or 3 to 6 lbs. per acre by concentrate or aerial spray.	
	Brown rot	See Use Instructions
	USE INSTRUCTIONS: Use 0.5 to 1.5 lbs. per 100 gals. in dilute spray, applying 6 gals. per tree to the lower 3 to 4 ft. on tree skirt and to the bare ground under a tree and 1 ft. beyond the tree line before Fall rains and 2 to 4 gals. per tree in January or February depending upon the amount of rain during this period. Addition of spreader-sticker adjuvant may increase the effectiveness of the treatment. Note: Do not use or apply in areas where copper injury is known to occur or where fumigation with hydrogen cyanide gas is practiced. (CA Only—In areas subject to copper injury, add 0.5 to 1 lb. of high grade spray lime per each pound of this product added.)	
Use Restrictions: Do not apply more than 3.15 lbs. of copper (6.2 lbs. of this product) per acre per application. Do not apply more than 12.6 lbs. of copper (24.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Coffee	Iron spot (<i>Cercospora coffeicola</i>), Pink disease (<i>Corticium salmonicolor</i>)	3 to 4 lbs.
	USE INSTRUCTIONS: Apply as a concentrate or dilute spray. Begin treatment at start of wet season and continue at monthly intervals for three sprays.	
	Leaf Rust	See Use Instructions
	USE INSTRUCTIONS: Apply 4.1 lbs. per acre. Make application before onset of rainy season and when disease is expected for that area, following local recommendations for number and timing of sprays.	
Use Restrictions: Do not apply more than 2.1 lbs. of copper (4.1 lbs. of this product) per acre per application. Do not apply more than 12.6 lbs. of copper (24.9 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Filbert (WA and OR only)	Bacterial blight	See Use Instructions
	USE INSTRUCTIONS: Mix 6 lbs. dilute spray basis or 12 lbs. per acre applied by concentrate and apply postharvest in late August or early September before first heavy Fall rain. If heavy Fall rains occur, repeat spray after three-quarters of the tree leaves have dropped. If weather conditions require, a spreader-sticker may be added.	
Use Restrictions: Do not apply more than 6 lbs. of copper (11.9 lbs. of this product) per acre per application. Do not apply more than 24 lbs. of copper (47.4 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days. Permitted only in Oregon and Washington.		

Fruit/Nut Crops	Disease / Pest	Rate of This Product per Acre
Mango	Anthracnose (except CA)	6.3 lbs.
	USE INSTRUCTIONS: Add a suitable spreader-sticker. Begin spray when panicles are about 2 inches long. Repeat sprays through September.	
Use Restrictions: Do not apply more than 3.2 lbs. of copper (6.3 lbs. of this product) per acre per application. Do not apply more than 48 lbs. of copper (94.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Olives	Leaf spot (Peacock)	5 to 6 lbs.
	USE INSTRUCTIONS: Use 5 to 6 lbs. per 100 gals. per acre applied by dilute spray before Fall rains begin.	
	Note: In areas with 10 inches or less of rainfall per year, use only 2 lbs. In concentrate sprays, apply 8 to 11.9 lbs. per acre in not less than 40 gals. of water, or 4 to 8 lbs. per acre in areas with less than 10 inches of rainfall per year.	
Use Restrictions: Do not apply more than 6 lbs. of copper (11.9 lbs. of this product) per acre per application. Do not apply more than 18 lbs. of copper (35.6 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Papaya	Anthracnose (except CA)	See Use Instructions
	USE INSTRUCTIONS: Mix 2 lbs. per 100 gals. of water on a dilute spray basis. Addition of a spreader-sticker is desirable. Begin treatments before rains begin or when disease is first expected. Repeat at 14 day intervals during periods of heavy rainfall.	
Use Restrictions: Do not apply more than 2.63 lbs. of copper (5.2 lbs. of this product) per acre per application. Do not apply more than 21.2 lbs. of copper (41.9 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Pecans	Shuck rot, Kernel rot (<i>Phytophthora cactorum</i>), Zonate leaf spot (<i>Cristulariella pyramidalis</i>)	2 to 4 lbs.
	USE INSTRUCTIONS: For suppression—Apply at 2 week intervals starting at kernel growth and continue until shucks open. Use higher rates when rainfall is frequent and/or heavy.	
	Alga, Mosses, Lichen	See Use Instructions
	USE INSTRUCTIONS: Mix 4.1 lbs. per 100 gals. spray plus spreader-sticker by dilute or by concentrate spray and apply in dormant season (before buds swell), thoroughly wetting limbs and mosses.	
Use Restrictions: Do not apply more than 2.1 lbs. of copper (4.1 lbs. of this product) per acre per application. Do not apply more than 8.4 lbs. of copper (16.6 lbs. of this product) per acre per year. Minimum retreatment interval is 14 days.		
Peaches, Nectarines	Coryneum blight (Shot hole), Peach blight, Peach leaf curl	8 to 15.8 lbs.
	USE INSTRUCTIONS: Apply in Fall dormant period before Fall rains begin. Repeat in Spring before foliage buds begin to swell if needed.	
	Brown rot blossom blight, Twig blight	8 to 12 lbs.
	USE INSTRUCTIONS: For suppression—Apply in full cover spray before buds swell and again at pink bud, but before leaves emerge.	
	Bacterial spot	See Use Instructions
	USE INSTRUCTIONS: Apply as dormant spray and at bud swell at the rate of 8 to 15.8 lbs. per acre. If needed, 1 lb. per acre may be added in the first and second postbloom cover sprays. Note: Application in cover sprays may cause some leaf spotting, defoliation and shedding of some fruits. If applied within 3 weeks of harvest, some fruit spotting may also occur.	
Use Restrictions: During the dormant or late dormant period up to pink bud, do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (2.9 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (35.6 lbs. of this product) per acre per year.		

(Continued)

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Fruit/Nut Crops	Disease / Pest	Rate of This Product per Acre
Plums, Prunes	Coryneum blight (Shot hole)	8 to 15.8 lbs.
	USE INSTRUCTIONS: Apply at the dormant stage before heavy Fall rains begin. Use the higher rates on mature trees and in wet periods with heavy disease potential.	
	Brown rot blossom blight, Twig blight	See Use Instructions
	USE INSTRUCTIONS: For suppression, apply in full coverage at green bud and early pink at the rate of 4 to 6 lbs. per acre. At white bud, apply 2.9 lbs. of this product per acre.	
Use Restrictions: During the dormant or late dormant period up to pink bud, do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per application. Minimum retreatment interval is 7 days. During the bloom or growing period, do not apply more than 1.5 lbs. of copper (2.9 lbs. of this product) per acre per application. Minimum retreatment interval is 5 days. Do not apply more than 18 lbs. of copper (35.6 lbs. of this product) per acre per year.		
Strawberries	Downy mildew, Leaf spot	2 to 3 lbs.
	USE INSTRUCTIONS: Apply after leaves form. Repeat at 7 day intervals.	
Use Restrictions: Do not apply more than 1 lb. of copper (2 lbs. of this product) per acre per application. For severe disease infection, do not apply more than 1.5 lbs. of copper (3 lbs. of this product) per acre per application. Do not apply more than 8.19 lbs. of copper (16.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Walnuts	Bacterial blight	7.9 lbs.
	USE INSTRUCTIONS: Apply in early prebloom (1% pistillate, not catkins, blooms are showing) and the second application when 10% to 20% pistillate (not catkins) blooms are showing. Repeat applications during bloom and nutlet development.	
Use Restrictions: Do not apply more than 4 lbs. of copper (7.9 lbs. of this product) per acre per application. Do not apply more than 32 lbs. of copper (63.2 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		

Vegetables/Field Crops	Disease / Pest	Rate of This Product per Acre
Beans (Dry, Green)	Angular leaf spot, Anthracnose, Bacterial blight, Downy mildew	1.5 lbs.
	USE INSTRUCTIONS: Begin spraying when plants have a second trifoliate leaf set (when plants are about 5 inches tall) or before disease first appears. Repeat at 7 day intervals as needed.	
Use Restrictions: Do not apply more than 0.79 lbs. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 4.74 lbs. of copper (9.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Barley, Oats, Wheat	Septoria leaf blotch or Glume blotch, Helminthosporium leaf or spot blotch	1 lb.
	USE INSTRUCTIONS: Make first application at early heading and repeat at 10 day intervals.	
Use Restrictions: Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre per application. Do not apply more than 1.06 lbs. of copper (2.0 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Beets	Downy mildew, Leaf blight, Leaf spot	2 to 2.5 lbs.
	USE INSTRUCTIONS: Apply when disease first appears. Repeat at 10 day intervals as needed.	
Use Restrictions: Do not apply more than 1.31 lbs. of copper (2.5 lbs. of this product) per acre per application. Do not apply more than 7.86 lbs. of copper (15.5 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Carrots	Leaf blight, Leaf spot	1.9 lbs.
	USE INSTRUCTIONS: Apply in 25 to 100 gals. of water per acre. Begin before diseases appear and repeat at 7 day intervals.	
Use Restrictions: Do not apply more than 1 lb. of copper (1.9 lbs. of this product) per acre per application. Do not apply more than 5 lbs. of copper (9.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		

Vegetables/Field Crops	Disease / Pest	Rate of This Product per Acre
Cantaloupe, Honeydews, Muskmelons	Downy mildew	2.0 lbs.
	USE INSTRUCTIONS: Apply at 5 day intervals. Begin before disease first appears.	
Use Restrictions: Do not apply more than 1.05 lbs. of copper (2.0 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.4 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Celery (Except CA)	Bacterial blight, Early/Late blight	1.9 lbs.
	USE INSTRUCTIONS: Apply in 25 to 100 gals. of water per acre. Begin when plants are set in field or diseases are first reported in area. Repeat at 7 day intervals.	
Use Restrictions: Do not apply more than 1 lb. of copper (1.9 lbs. of this product) per acre per application. Do not apply more than 5.3 lbs. of copper (10.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days. Not for use in California.		
Cucumbers	Angular leaf spot, Anthracnose, Cercospora leaf spot, Downy mildew	2.0 lbs.
	USE INSTRUCTIONS: Apply once plants begin to vine at 5 day intervals.	
Use Restrictions: Do not apply more than 1.05 lbs. of copper (2.0 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.4 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Eggplant (except CA)	Alternaria blight, Anthracnose, Phomopsis	1.5 lbs.
	USE INSTRUCTIONS: Apply before disease appears. Repeat at 7 day intervals.	
Use Restrictions: Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 7.9 lbs. of copper (15.6 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Garlic, Leeks, Onions	Downy mildew, Purple blotch	1.9 lbs.
	USE INSTRUCTIONS: A spreader-sticker may be added to better wet the foliage. Begin spray when plants are 4 to 6 inches high and repeat at 7 day intervals.	
Use Restrictions: Do not apply more than 1 lb. of copper (1.9 lbs. of this product) per acre per application. Do not apply more than 6 lbs. of copper (11.9 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Peanuts	Cercospora leaf spot	1.5 lbs.
	USE INSTRUCTIONS: Apply by ground, chemigation or aerial spray application. Make first spray before disease symptoms appear or are reported in the area, which is usually 25 to 40 days after planting. Thorough canopy penetrating coverage is required for good control. For best ground spray control, use as much spray water as practically possible and a spray pressure of at least 60 psi or more. With aerial application, use 3 to 5 gals. of water per acre. Continue sprays at 7 day intervals preferably up to day of harvest. May be tank mixed with sulfur formulation or other compatible fungicides at labeled rates.	
Use Restrictions: Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 4.74 lbs. of copper (9.3 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Peas	Bacterial blights, Powdery mildew	1.5 lbs.
	USE INSTRUCTIONS: Begin when disease symptoms first appear. Apply according to disease severity and repeat at weekly intervals as needed.	
Use Restrictions: Do not apply more than 0.79 lb. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 3.95 lbs. of copper (7.8 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Peppers	Bacterial spot	1.5 lbs.
	USE INSTRUCTIONS: Start sprays in seed bed or field before disease first appears and usually right after transplanting. Repeat every 3 days in field and especially during fruiting stages. Damping-off (cold frames, greenhouses, etc.) —Use 1.5 lbs. per 100 gals. of water and apply as a light spray to soil before seedlings emerge. Continue spray when plants emerge and repeat at 3 day intervals until transplanting time.	
Use Restrictions: Do not apply more than 0.79 lbs. of copper (1.5 lbs. of this product) per acre per application. Do not apply more than 11.85 lbs. of copper (23.4 lbs. of this product) per acre per year. Minimum retreatment interval is 3 days.		

(Continued)

Vegetables/Field Crops	Disease / Pest	Rate of This Product per Acre
Potatoes	Early blight, Late blight USE INSTRUCTIONS: Apply in 25 or more gals. of water per acre. Begin when plants are 4 to 6 inches high or when disease first appears in the area. Repeat at 5 day intervals to harvest. If Late blight is a problem, apply prior to digging or in vine kill spray.	3 to 4 lbs.
Use Restrictions: Do not apply more than 2.5 lbs. of copper (4.9 lbs. of this product) per acre per application. Do not apply more than 25 lbs. of copper (49.4 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Pumpkins, Squash	Alternaria leaf spot, Angular leaf spot (on Squash), Anthracnose, Downy mildew, Powdery mildew USE INSTRUCTIONS: Begin application when plants are about 3 weeks old or when symptoms first appear in the area. Repeat at 5 day intervals.	2.0 lbs.
Use Restrictions: Do not apply more than 1.05 lbs. of copper (2.0 lbs. of this product) per acre per application. Do not apply more than 5.25 lbs. of copper (10.4 lbs. of this product) per acre per year. Minimum retreatment interval is 5 days.		
Sugar beets	Leaf spot USE INSTRUCTIONS: Begin when disease is first expected and repeat at 10-day intervals.	2.5 lbs.
Use Restrictions: Do not apply more than 1.31 lbs. of copper (2.5 lbs. of this product) per acre per application. Do not apply more than 7.86 lbs. of copper (15.5 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Tobacco	Angular leaf spot, Damping-off (cold frames, greenhouse, etc.), Root rot USE INSTRUCTIONS: Apply 1.4 ozs. of this product per 1000 sq. ft. in minimum 3 gallons of water and repeat at 10 to 14 day intervals. Begin application at plant emergence.	See Use Instructions
Use Restrictions: Do not apply more than 2 lbs. of copper (3.9 lbs. of this product) per acre per application. Do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per year. Minimum retreatment interval is 10 days.		
Tomatoes	Anthracnose, Bacterial speck, Bacterial spot, Early and Late blights, Gray leaf mold, Septoria leaf spot, Damping-off (cold frames, greenhouses, etc.) USE INSTRUCTIONS: For tomatoes (processing), apply 1 lb. per acre. For tomatoes (fresh market), apply 3.1 lbs. per acre. Apply in sufficient water for thorough coverage. Begin in seed bed and repeat at 3 day intervals after first leaves appear. In the field, especially where Bacterial spot or speck infections are usually heavy, begin spray after transplanting or when disease is first expected. This product, used alone may be sprayed up to day of harvest. Control of Bacterial spot and speck may be enhanced by a tankmix with maneb or mancozeb if labeled for use on Tomatoes. Observe days before harvest on each product label. For target leaf spot control, tankmix with a chlorothalonil formulation. For damping-off (cold frames, greenhouses, etc.)—Apply as a light spray to soil surface around plants. Begin when plants emerge and repeat at 3 day intervals until transplanting time.	See Use Instructions
Use Restrictions: For Tomatoes (Processing) —Do not apply more than 0.53 lb. of copper (1 lb. of this product) per acre per application. Do not apply more than 17.4 lbs. of copper (34.3 lbs of this product) per acre per year. For Tomatoes (Fresh Market) —Do not apply more than 1.6 lbs. of copper (3.1 lbs. of this product) per acre per application. Do not apply more than 8 lbs. of copper (15.8 lbs. of this product) per acre per year. Minimum retreatment interval is 3 days.		

Ornamental Plants, Hedges, Forest Trees	Disease / Pest	Rate of This Product per Acre
Arborvitae, Azalea, Boxwood, Dogwood, Ivy, Lilac, Maple, Oak, Palm, Pine, Rhododendron, Virginia Creeper	Anthracnose, Blights, Leaf spots, Smuts (on Palms) USE INSTRUCTIONS: Begin spray before disease appears. Repeat every 7 days and after each rain. Use equivalent rates when applied by chemigation.	3.9 lbs.
Use Restrictions: Do not apply more than 2 lbs. of copper (3.9 lbs. of this product) per acre per application. Do not apply more than 20 lbs. of copper (39.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Aster, Begonia, Carnation, Chrysanthemum, Dahlia, Gardenia, Geranium, Gladiolus, Hollyhock, Lily, Marigold, Nasturtium, Pansy, Peony, Phlox, Rose, Snapdragon, Sweet pea, Tulip, Violet, Zinnia	Anthracnose, Botrytis blight, Downy mildew, Leaf spots, Powdery mildew USE INSTRUCTIONS: Begin spray before disease appears. Repeat every 7 to 10 days and after each rain. Use equivalent rates when applied by chemigation.	4.9 lbs. (for Easter lily) 3.9 lbs. (for all others)
Use Restrictions: On Easter Lilies: Do not apply more than 2.5 lbs. of copper (4.9 lbs. of this product) per acre per application. Do not apply more than 75 lbs. of copper (148 lbs. of this product) per are per year. Retreatment interval is 7 days. Note: Do not apply any other pesticide containing copper to this land for 36 months. On all other Ornamentals: Do not apply more than 2 lbs. of copper (3.9 lbs. of this product) per acre per application. Do not apply more than 20 lbs. of copper (39.5 lbs. of this product) per acre per year. Retreatment interval is 7 days.		
Pine	Needle blights (including Dothistroma needle blight) USE INSTRUCTIONS: Forests, hedges and wind-breaks—Apply 1.5 to 3 lbs. per acre in sufficient water for good coverage. If applied by aircraft equipped with low volume sprayers (such as the micronaire), adjust the droplet size to apply 3.9 lbs. per acre in 1.75 pts. medium crop oil and add sufficient water to give thorough coverage for disease control. Make application as needles are just emerging. When disease potential is heavy, repeat 3 weeks later. Repeat at yearly intervals. In nurseries and ornamentals—Apply by dilute spray to point of runoff, applying at a rate of 2.5 to 3.5 lbs. per 100 gals. of water, using above timings and repeat to control disease.	See Use Instructions
Use Restrictions: Do not apply more than 2 lbs. of copper (3.9 lbs. of this product) per acre per application. Do not apply more than 20 lbs. of copper (39.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		
Poplar	Leaf rust USE INSTRUCTIONS: Apply by full dilute spray just before point of runoff. Make first spray at the first sign of Rust pustules. Repeat at minimum 7 day intervals to control the disease.	3.9 lbs.
Use Restrictions: Do not apply more than 2 lbs. of copper (3.9 lbs. of this product) per acre per application. Do not apply more than 20 lbs. of copper (39.5 lbs. of this product) per acre per year. Minimum retreatment interval is 7 days.		

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Store in a secure, cool, dry area.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

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

Nonrefillable Container (rigid-fifty lbs. or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or 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 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 rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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

WARRANTY—CONDITIONS OF SALE

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

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