

88704-1

09/27/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D C 20460



Office of Pesticide Programs

JJ's Unlimited/CuH₂O
4420 Buckeye Court
Orlando, FL
32804

SEP 27 2012

Attention Sheri Gray

Subject **CuH₂O**
EPA Registration No 88704-1
Amendment Dated August 31, 2012

This will acknowledge receipt of your Amendment to update the container handling statement per PR Notice 2007-4 and make other minor changes to the product label, submitted under the provision of FIFRA Section 3(c) (7)(A)

Proposed Amendment

- To Correct typographical error in the ingredient statement

General Comments

Based on a review of the submitted material, the following comments apply

The Amendment dated August 31, 2012 acceptable, and is in compliance with the PR Notice 98-10 A stamped copy of the label has been added to your files

If you have any questions concerning this letter, please contact Zebora Johnson at (703) 308-7080

Sincerely

Marshall Swindell
Product Manger (33)
Regulatory Management Branch I
Antimicrobial's Division (7501P)

CuH₂O

Algicide/Bactericide/Fungicide

FOR SWIMMING POOLS, OUTDOOR HOT TUBS AND SPAS AND FOR USE ON RAW AGRICULTURAL COMMODITIES

ACTIVE INGREDIENT	
Copper Sulfate Pentahydrate*	19.8%
OTHER INGREDIENTS	80.2%
TOTAL	100.0%

*Equivalent to 5.0% metallic copper

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID	
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15-20 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.
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.	

IN CASE OF MEDICAL EMERGENCY CALL 1-XXX-XXX-XXXX

Manufactured by
JJ's Unlimited
4420 Buckeye Court
Orlando, FL 32804

EPA REGISTRATION NO 88704-X
EPA ESTABLISHMENT NO
BATCH NO

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with COMMENTS
on EPA Letter Dated
SEP 27 2012

Under the Federal Insecticide
Fungicide, and Rodenticide Act as
amended to the pesticide
registered under EPA Reg No 88704-1

Net Contents

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

Corrosive Fatal if absorbed through skin Causes irreversible eye damage Causes skin damage
Do not get on skin, in eyes, or on clothing Harmful if swallowed Wear coveralls over long
sleeved shirt and long pants, goggle or face shield, chemical-resistant footwear plus socks and
chemical resistant apron for mixing, loading and cleaning equipment, and chemical resistant
headgear for overhead exposure

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through
runoff This product has potential for runoff for several months or more after application Do not
discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other
waters unless in accordance with the requirement of a National Pollutant Discharge Elimination
System (NPDES) permit and the permitting authority has been notified in writing prior to
discharge Do not discharge effluent containing this product to sewer systems without previously
notifying the local sewage treatment plant authority For guidance contact your State Water
Board or Regional Office of the EPA

For Terrestrial Uses This pesticide is toxic to fish and aquatic vertebrates and may
contaminate water through runoff Do not apply directly to water or areas where surface water is
present or to intertidal areas below the mean high mark Do not contaminate water when
disposing of equipment washwaters or rinsate Drift and runoff may be hazardous to aquatic
organisms in water adjacent to treated areas This product may contaminate water through
runoff Poorly draining soils and soils with shallow water tables are more prone to produce
runoff that contains this product Drift and runoff may be hazardous to aquatic organisms in
water adjacent to treated areas

Waters treated with this product may be hazardous to aquatic organisms Treatment of aquatic
weeds and algae can result in oxygen loss from decomposition of dead algae and weeds This
oxygen loss can cause fish and invertebrate suffocation To minimize the hazard, do not treat
more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation Wait
at least 10 to 14 days between treatments Begin treatment along the shore and proceed outwards in
bands to allow fish to move into untreated areas Consult with the State or local agency with
primary responsibility for regulating pesticides before applying to public waters, to determine if
a permit is required

Certain water conditions including low pH (6.5), low dissolved organic carbon (DOC) levels
(3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L), increases the potential
acute toxicity to non-target aquatic organisms

Drift and runoff may be hazardous to aquatic organisms in water s adjacent to treated areas

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Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended by the pesticide
reform act of 1972 and under EPA Reg No **88704-1**

GENERAL INFORMATION

CuH₂O is a copper sulfate pentahydrate formulation used to control bacterial and algae in swimming pools and outdoor hot tubs and spas. It is used as a post harvest wash to control bacteria and fungi that cause spoilage in fruits and vegetables and is used on growing agricultural commodities to control bacteria and fungi.

Using water containing moderate to high amounts of sulfur may cause CuH₂O to neutralize. Whenever possible, use a compatibility jar test before mixing a whole tank.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing washwaters or rinsate.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Application

For control of algae and odor causing bacteria in swimming pools, outdoor hot tubs, add JJ's Unlimited CuH₂O as per chart below.

	Water	JJ's Unlimited CuH ₂ O
Swimming Pools	15,000 gallons	1-3 quarts
	30,000 gallons	2-6 quarts
	60,000 gallons	4-12 quarts
Outdoor Hot Tubs & Spas	235 gallons	1 ounce
	470 gallons	2 ounces
	700 gallons	3 ounces

Application should be made before visible algae appear. Where visible algae is present, apply at the higher rate. For maintenance dosages and where visible algae are not present, use the lower rate. Repeat maintenance dosages to maintain the recommended concentration and avoid excessive build up of metallic copper. JJ's Unlimited CuH₂O may be used at the higher rates to

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help control odors and algae during the winter months while the pool is not being used
Recommended application rates yield (1 ppm to 3 ppm) metallic copper

{To control algae and bacteria in swimming pools, spas & hot tubs Apply at the rate of 2-4 quarts of JJ's Unlimited CuH₂O per 60,000 gallons This will provide a level of 0.5 ppm to 1.0 ppm metallic copper Application should be made before visible algae appear Where visible algae are present, apply at the higher rate For maintenance dosages and where visible algae are not present, use the lower rate Repeat maintenance dosages to maintain the recommended concentration and avoid excessive buildup of metallic copper JJ's Unlimited CuH₂O may be used to help control pool odors and algae during winter months Maintain the higher rate while the pool is not being used during the winter Do not discharge treated pool effluent where it will drain into lakes, streams, ponds, or public water }

General Algae/Bacteria Control

For suppression of bacterial odors and for control of algae, apply in late spring or early summer when algae and bacteria first appear The dosages are variable and depend upon algae/bacteria species, water hardness, water temperature, amount of algae/bacteria present, as well as whether water is clear, turbid, flowing or static Preferably, the water should be clear with the temperature above 60 degrees F for 15.6 degrees C Higher dosages are required at lower temperatures, higher algae/bacteria concentration, and for hard waters Application should be done directly by pouring JJ's Unlimited CuH₂O directly from the container into the pool, outdoor hot tub or spa Several application points speed up dispersal Static water requires less chemical for algae/bacteria control than does flowing water Use higher dosages for Chara, Nitella and filamentous algae (pond scum), and lower dosages for planktonic algae If there is uncertainty about the dosage begin with a lower dose and increase until control is achieved, or until the maximum allowable level has been reached

For use as a Post Harvest Wash and Agricultural Commodities

To use as an algicide, bactericide, fungicide post harvest wash the following directions apply

For use as a post harvest wash, this product may be applied with any types of application equipment that gives thorough and uniform coverage Devices may include, but are not limited to, dunk and dip tanks, spray applicators or fogging

Washing raw agricultural commodities will both clean and control bacteria and fungi that causes spoilage Depending on water quality and cleaning conditions, or when adding new processing water, add from one hundred three (103) up to one hundred twenty eight (128) fluid ounces of JJ's Unlimited CuH₂O per one thousand (1,000) gallons of water Allow thorough coverage of the commodity and then let dry Rinsing is not required or recommended

Depending on water quality, cleaning conditions or when adding new processing water, start at lower rinse rates Add CuH₂O as per the chart below

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CuH₂O	Rinse Water
25 6 ounces to 32 ounces	250 gallons
51 2 ounces to 64 ounces	500 gallons
103 ounces to 128 ounces	1,000 gallons

Remember Commodities need only be immersed long enough to allow complete coverage

For use as a Fungicide/Bactericide on Growing Agricultural Commodities

For use as systemic fungicide/bactericide on growing agricultural commodities, the following directions apply

General Instructions

CuH₂O may be applied with any type of application equipment that gives uniform coverage of all foliage, including ground, aerial and low volume sprayers as specified on this label Equipment used for application should be PVC or 316L stainless steel CuH₂O is compatible with most fungal and insecticidal biopesticides when applied at least two (2) days before or after application of the biopesticide

Phytotoxicity – There could be some varieties and cultivars that because of environmental factors and stages of growth could possibly foster systems The per acre use rate of CuH₂O is applicable for dilute spraying Depending on the equipment used and specific crop, the spray volume applied per acre will differ Refer to Minimum Recommended Spray Volume Table Complete spray coverage is essential to assure optimum performance from CuH₂O When treating by aerial application or with low volume application equipment, unless you have had specific previous experience, it is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial utilization

Consult CuH₂O label for specific rates and timing of application by crop Where application rates and intervals are provided in a range (e g , 2-4 fluid ounces and 7 to 10 days) the higher rates and shorter spray time intervals are recommended when rainfall is heavy and/or disease pressure is high Use the higher rates for large mature tree crops The use of surfactant, such as Cell-U-Wett™ is acceptable for plants having waxy or hairy surfaces CuH₂O works via surface contact with the plants and materials being treated It is important to ensure that all surfaces are thoroughly wetted CuH₂O does not produce any visible residue or have a distinct odor It does have a residual, especially if applied with a surfactant

Special Precautions

- **Do not** mix with acidic compounds such as Alliette™ within 14 days before or after application of same
- This product may be reactive on masonry and metal surfaces such as galvanized iron, etc. Avoid contact with metal surfaces Do not spray on cars, houses, lawn furniture, etc.

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- Environmental conditions such as extended periods of wet weather, acid rain, etc , which alter the pH of the leaf surface may affect the performance of CuH₂O resulting in possible phytotoxicity or loss of effectiveness
- **Do not mix with pot ash**
- It must be determined in the selection process if proper application equipment is available and if the waste associated with its use can be properly handled Materials used on the construction of application equipment is also an important factor as agricultural chemicals are often reactive with soft metals such as aluminum and event some synthetic materials such as plastics, rubbers, etc Therefore it is necessary when working with equipment containing these materials, that they are thoroughly flushed with clean water after each days use

Personal Protective Equipment

Personal Protective Equipment Some materials that are chemical-resistant to this product are listed below Applicators and handlers must wear

- Long sleeve shirt
- Long pants
- Chemical resistant gloves made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride or Viton
- Protective eyewear
- Shoes plus socks

User Safety Requirements

Follow manufacturer’s instructions for cleaning and maintaining PPE If no such instructions for washables exist, use detergent and hot water Keep and wash PPE separately from other laundry Discard clothing and other absorbent material that has been drenched or heavily contaminated with the product’s concentrate Do not re-use them

User Safety Recommendations

Users should

- User should wash hands before eating, drinking, chewing gum, using tobacco and using toilet
- User should remove clothing PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
- Wash the outside of gloves before removing
- As soon as possible wash thoroughly and change into clean clothing
- 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

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- Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate Do not re-use them

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Workers 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), notification to workers, and restricted-entry interval The requirements in this paragraph only apply to uses of this product that are covered by the Workers Protection Standard

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours

Do not enter or allow others to enter until sprays have dried

PPE required for early entry to treated areas that is permitted under Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, water, is coveralls, protective eyewear, chemical resistant gloves, and shoes plus socks

Non-Agricultural Use Requirements

The requirements in this paragraph apply to uses of this product that are not within the scope of the Workers 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 allow re-entry into treated areas until sprays have dried

General Chemigation Instructions

Apply this product only through one or more of the following types of systems Sprinkler including center pivot, lateral move, end row, side (wheel) roll, traveler, big gun, solid set or hand move flood (basin), furrow, border or drip (trickle) irrigation and system(s)

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts

Do not connect an irrigation system (including greenhouses systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place

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A person knowledgeable for the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise Posting areas to be chemigated is required when 1) Any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospital, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds or other public facilities not including public road, or 2) When chemigated area is open to the public such as golf courses or retail greenhouses

Posting must conform to the following requirements Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive area When there are no usual points of entry, signs must be posted in the corners of the treated areas and in English Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period

All words shall consist of letters of at least 2 1/2 inches tall, and all letters and the symbol shall be in a color which sharply contrasts with their immediate background At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER

This sign is in addition to any sign posted to comply with the Workers Protection Standard

Chemigation Systems Connected to Public Water Systems

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

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction There shall be a complete break (air gap) between the flow outlet end of the fill pipe and the top of the 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 liquid back toward the injection

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

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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 the pesticide distribution is adversely affected

Systems must use a metering pump, such as a positive displacement injection pump (i.e. 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, agitation is not necessary. Adjust the pH of the water to 7 or below. If using stickers, spreaders, insecticides, nutrients, etc., add CuH₂O last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of a wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in the mixtures.

CuH₂O may be added through a traveling system continuously or at the last 30 minutes or so set or hand move irrigation systems. CuH₂O readily disperses and needs no agitation.

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 back flow.

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

The pesticide injection pipeline must contain a 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 pump (i.e., 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.

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When mixing, agitation is not necessary Adjust the pH of the carrier water to 7 or below If using stickers, spreaders, insecticides, nutrients, etc add the CuH₂O last If compatibility is in question, use a compatibility jar test before mixing a whole tank Because of a wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all product used in the mixtures

May be added through a traveling irrigation system or at the last 30 minutes of solid set or hand moved irrigation systems CuH₂O readily disperse and needs no agitation

Floor (Basin), Furrow and Border Chemigation

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements

- a The system must contain a functional check valve, vacuum and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination back flow
- b The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of liquid back toward the injection pump
- c The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- d The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- e The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- f Systems must use a metering pump, such as a positive displacement pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

When mixing, agitation is not necessary Adjust pH of the carrier water to 7 or below If using stickers, spreaders, insecticides, nutrients, etc , add the CuH₂O last If compatibility is in question, use a compatibility jar test before mixing a whole tank Because of a wide variety of possible combinations which can be encountered, observe al locutions and limitations on the labels of all products used on the mixtures

CuH₂O may be added through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems CuH₂O readily disperses and needs no agitation

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Drip (Trickle) 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 back flow

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

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor pump 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 (i.e. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

When mixing, agitation is not necessary. Adjust the pH of the carrier water to 7 or below. If using stickers, spreaders, insecticides, nutrients, etc., add CuH₂O last. If compatibility is in question, use a compatibility jar test before mixing a whole tank. Because of wide variety of possible combinations which can be encountered, observe all cautions and limitations on the label of all products used in the mixtures. CuH₂O may be added through a traveling irrigation system continuously or at the last 30 of solid set or hand moved irrigation systems. CuH₂O readily disperses and needs no agitation.

For Spray and Soil Drench Applications

Always spray for total foliage coverage. When re-spraying the rates and severity of the disease vary with unforeseen conditions. However, in the event of severe disease, spraying intervals can be shortened to 3 to 5 days. At times, lower rates can be as effective as higher rates and should be tried first. Usually, preventive programs may be maintained at lower rates. Use of low volume spraying is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections. Also, applications on actively growing tissue may be more effective than applications on dormant tissue.

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Handwritten notes and signatures, including the word "signature" and "10/4/12".

Handwritten number: 88104-1

**Minimum Recommended Spray Volume (Gallons) Per Acre
When Applying CuH₂O**

Crop	Aerial	Dilute	Concentrate*
Vegetables	3	20	30
Field Crops	3	20	30
Small Fruits	5	150	30
Vines	5	150	30
Tree Crops	10	400	50

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

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

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**Frost Injury Protection
Bacterial Ice Nucleation Inhibitor**

Under the Federal Insecticide
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registered under EPA Reg No
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Application of CuH₂O made to all crops listed on this label at rates and stages of growth indicated on this label, at least 24 hours prior to anticipated frost conditions, will afford control of ice nucleating bacteria (Pseudomonas syringae, Erwinia herbicola and Pseudomonas fluorescens) and may therefore provide some protection against light frost. Not recommended for those geographical areas where weather conditions favor severe frost.

The chart below is used to calculate correct ppm's* of active ingredient (AI) per volume of carrier water. These volumes can be used for either conventional or concentrated sprays.

Amount of CuH₂O Per Volume of Water
For Proper PPM s* of Applied Active Ingredient (As Copper)

Ppm s* of AI	30gallons per acre	50gallons per acre	100gallons per acre	125gallons per acre	250gallons per acre	500gallons per acre
50	3.85 oz	6.4 oz	12.8 oz	16 oz	32 oz	64 oz
75	5.78 oz	9.6 oz	19.2 oz	24 oz	48 oz	96 oz
100	7.70 oz	12.8 oz	25.6 oz	32 oz	64 oz	1 gal
125	9.6 oz	16 oz	32 oz	40 oz	80 oz	1.25 gal
150	11.5 oz	19.2 oz	38.4 oz	48 oz	96 oz	1.5 gal
200	15.4 oz	25.6 oz	51.2 oz	64 oz	1 gal	2 gal

Ppm* = parts per million (as copper)

Citrus
Grapefruit, Kumquat, Lemon, Lime, Orange, Tangelo, Tangerine

Disease	Rate per Acre	Ppm's (copper) Per 100 gallons of water	Instructions
Brown Rot	30-70 oz	120-275	Apply at first indication of rain or

Disease	Rate per Acre	Ppm's (copper) Per 100 gallons of water	Instructions
			first appearance of Brown Rot Re apply as needed during wet weather
Greasy Spot Pink Pitting	25 6 64 oz	100 250	Apply during mid summer
Scab	25 6 64 oz	100 250	Apply shortly before trees begin to flush Re apply at 2/3 petal fall Re apply 4 weeks later if necessary
Melanose	25 6 64 oz	100 250	Apply 2 times per year before the onset of spring and autumn rains
Canker (suppression)	12 8 64 oz	50 250	Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require additional applications Number and timing of applications will be dependent on disease pressure Under heavy pressure each new flush of growth should be sprayed Heavily infected trees should be sprayed with a minimum dosage of 250 ppm with a follow up spray after 7 14 days at 200 ppm
12 6 lb ²	7 days ³	3 15 lb ¹	

Maximum per Application Rate (lbs Cu²⁺/A)¹
 Maximum Annual Rate (lbs Cu²⁺/A)²
 Minimum Retreatment Interval³

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Field Crops

Crop	Disease	Rate/Acre	Ppm s (copper) Per 100 gallons of water	Instructions
Alfalfa	Cercospora Leaf Spot Leptosphaerulina Leaf Spot	19 2 32 oz	75 125 ppm	Apply 10 to 14 days before each harvest or earlier if disease threatens Note Spray injury may occur with sensitive varieties such as Lahontan
	1 12 lb ²	30 days ³	0 53 lbs ¹	
Corn (field corn popcorn sweet corn)	Bacterial Stalk Rot	19 2 32 oz	75-125	Begin treatment when disease first appears and repeat every 7 to 10 days or as needed Use the higher rates and shorter spray intervals when conditions favor disease *
	4 2 lb ²	7 days ³	1 05 lb ¹	
Peanut	Cercospora Leaf Spot	19 2 25 6 oz	75 100	Begin spraying at 35 to 40 days after planting or when disease symptoms first appear and repeat
	4 74lb ²	7 days ³	2 5 lb ¹	

Crop	Disease	Rate/Acre	Ppm's (copper) Per 100 gallons of water	Instructions
				at 10 to 14 days interval or as needed Reduce sprays to 7 day intervals during humid weather Use the higher rates when conditions favor disease
Potato	Early Bligh Late Blight 25 lb ²	19 2-32 oz 5 days ³	75-125 2 5 lb ¹	Apply 75 to 125 ppm at 7 to 10 day intervals or as needed starting when plants are 2 to 6 inches high in locations where disease is light Add up to 32 oz per acre when disease is more sever
Sugar Beets	Cercospora Leaf Spot 7 86 lb ²	19 2 38 4 oz 10 days ³	75-150 1 31 lb ¹	Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals or as needed Use higher rates when conditions favor disease Addition of a sticker/spreader is recommended
Wheat Barley Oats	Helminthosporium Spot Blotch, Septoria Leaf Blotch 1 06 lb ²	19 2 25 6 oz 10 days ³	75 100 0 53 lb ¹	Make first application at early heading and follow with second spray 10 days later Use the higher rates when conditions favor disease

Maximum per Application Rate (lbs Cu²⁺/A)¹
 Maximum Annual Rate (lbs Cu²⁺/A)²
 Minimum Retreatment Inverval³
 Not Permitted in California

Small Fruits

Crop	Disease	Rate/Acre	Ppm s (copper) Per 100 gallons of water	Instructions
Blackberry(Aurora Boysen Cascade Chehalem Logan Marion, Santam Thornless Evergreen)	Anthracnose Cane Spot Leaf Spot Pseudomonas Blight, Purple Blotch Yellow Rust	High 32 oz	125 ppm	Make fall application after harvest Apply delayed dormant spray after pruning/treatment the spring If needed, agricultural-type sprays should be applied

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 WITH COMMENTS
 the EPA Letter Dated
 agricultural-type
 sprays should be applied
 SEP 27 2012

Crop	Disease	Rate/Acre	Ppm s (copper) Per 100 gallons of water	Instructions
				added
	Anthracnose Cane Spot Leaf Spot Purple Blotch Yellow Rust	Low 19 2 oz 7 days ³	75 ppm	Apply when leaf buds begin to open and repeat when flower buds show white If needed agricultural type spray oil may be added NOTE Crop injury may occur If applied to foliage under certain environmental conditions such as hot or prolonged moist periods Discontinue applications if signs of crop injury appear
Blueberry	Bacterial Canker	32 51 2 oz	125 200 ppm	Make application before fall rains and a second application 4 weeks later Use the higher rates when conditions favor disease *
	Fruit Rot Phomopsis Twig Blight	25 6 51 2 oz 7 days ³	100 200 ppm 2 1 lb ¹	Dormant Application Begin applications when bloom buds begin to swell Make additional applications at 10 to 14 day intervals or as needed before blooms open
Cranberry	Fruit Rot	51 2 oz	200 ppm	Make application in late bloom Apply one or two additional applications at 10 to 14 day intervals or as needed depending on disease severity
	Rose Bloom	51 2 oz	200 ppm	Apply three sprays on 10 to 14 day schedule or as needed as soon as symptoms are observed

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in EPA Letter Dated
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Under the Federal Insecticide,
Fungicide and Rodenticide Act as
amended for the pesticide,
registered under EPA Reg. No. 88704-1

Crop	Disease	Rate/Acre	Ppm s (copper) Per 100 gallons of water	Instructions
	Bacterial Stem Canker	51 2 oz	200 ppm	Apply post harvest and again in spring at bud swell Apply one or two additional applications at 10 to 14 intervals or as needed depending on disease severity
	Leaf Blight Red Leaf Spot Stem Blight, Tip Blight (<i>Monilinia</i>) 6 3 lb ²	51 2 oz 7 days ³	200 ppm 2 1 lb ¹	Apply delayed dormant spray in the spring Repeat 10 to 14 days intervals or as needed through pre bloom
Currant Gooseberry	Anthracnose Leaf Spot 10 0 lb ²	64 oz 10 days ³	250 ppm 2 5 lb ¹	Make initial application after first leaves have expanded Continue on a 10 to 14 day schedule or as needed during wet conditions in the spring Make an additional application after harvest
Raspberry	Anthracnose Cane Spot Pseudomonas Blight Purple Blotch Yellow Rust	High 32 oz	125 ppm	Make fall application after harvest Apply delayed dormant spray after training in the spring If needed agricultural type application 4 weeks later Use the higher rates when conditions favor disease *
	Anthracnose Cane Spot Leaf Spot Purple Blotch, Yellow Rust 10 0 lb ²	Low 19 2 oz 7 days ³	75 ppm 2 0 lb ¹	Apply when leaf buds begin to open and repeat when flower buds show white If needed agricultural type spray oil may be added Note Crop injury may occur if applied under with COMMENTS for Letter Dated 10/13/12 Environmental

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for Letter Dated
10/13/12 Environmental
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for the Federal Insecticide
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Crop	Disease	Rate/Acre	Ppm s (copper) Per 100 gallons of water	Instructions
				conditions such as hot or prolonged moist periods Discontinue applications if signs of crop injury appear
Strawberry	Angular leaf spot (Xanthomonas) Leaf Blight, Leaf Scorch Leaf Spot 8.9 lb ²	19.2-25.6 oz 7 days ³	75-100 ppm 1.5 (severe disease) 1.0 lb ¹	Begin application when plants are established and continue on a weekly schedule throughout the season. Apply in at least 20 gallons of water. Use the higher rates when conditions favor disease. Note: Discontinue applications if signs of crop injury appear.

Maximum per Application Rate (lbs Cu²⁺/A)¹

Maximum Annual Rate (lbs Cu²⁺/A)²

Minimum Retreatment Interval³

Not Permitted in California*

Tree Crops

Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
Almond Apricot Cherry Plum Prune	Bacterial Blast (Pseudomonas) Bacterial Canker Coryneum Blight (Shot Hole)	51.2-64 oz	200-250	Make first application before fall rains and a second at late dormant. Use the higher rates when conditions favor disease. If needed, agricultural-type spray oil may be added. For Cherries: Where disease is severe, an additional application shortly after harvest may be required. Note: Foliar injury may result from post-bloom sprays on almonds, especially.

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in EPA Letter Dated:

SEP 27 2012

Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
				on NePlus varieties
	Blossom Brown Rot Coryneum Blight (shot hole)	51 2 64 oz on almond, all others 60 90 oz	250 ppm	Apply during early bloom Do not apply after full bloom or injury may occur Use the higher rates when rainfall is heavy and disease pressure is high
	Black Knot* (plum)	32 64 oz	125 250 ppm	Make application at bud swell up to early bloom for early disease suppression, Apply before full bloom Use the higher rates when rainfall is heavy and disease pressure is high Note To avoid plant injury do not use after full bloom
	Cherry Leaf Spot* (sour cherries only) 18 0 lb ²	38 4 64 oz Dormant/Late Dormant 7 days Bloom/Growing Season 5 days ³	150 250 ppm 80 0 lb ¹ 1 5 lb ¹	Apply at petal fall as well as 1 to 2 times after petal fall Use the lower rates where disease infection is light and use the higher rates for a dormant application or where disease infection is moderate to heavy Do not apply to sweet cherry or the English Morello variety as severe injury will result Note Moderate to severe injury such as leaf spotting and defoliation may occur from post bloom applications
Apple	Anthracnose Blossom Blast European Canker (<i>Necria</i>) Shoot Blast (<i>Pseudomonas</i>)	51 2 64 oz	200 250 ppm	Apply before fall rains Use the higher rates when conditions favor disease NOTE Use on yellow varieties may cause discoloration, pick before spraying
	Apple Scab Fire	High	200 250 ppm	Make application

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Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
	Blight	51 2 64 oz		between silver tip and green tip Apply as a full cover spray for early season disease suppression NOTE Moderate to severe crop injury may occur from late application discontinue use when green tip reaches 1/2 inch
	Apple Scab Fire Blight	Low 19 2-25 6 oz Low 19 2 25 6 oz	75 125 ppm 75 100 ppm	Extended spray schedule where fruit finish is not a concern Continued applications may be made at 5 to 7 day intervals or as needed between 1/2 inch green tip and first cover spray NOTE Moderate to severe crop injury may result from this extended spray schedule It is not intended for fresh market apples or for apples where fruit finish is a concern as it is likely to cause fruit russetting
	Collar Rot Crown Rot 16 0 lb ²	32 oz n/a (only 1 application per season permitted) ³ 5 days ³	125 ppm Fall, late dormant 8 0 lb ¹ 0 5 lb ¹	Mix 100 gallons of water Apply 4 gallons of solution as a drench on the lower trunk area of each tree Apply in early spring or in fall after harvest for best results Do not apply to foliage or fruit
Avocado	Anthraxnose Blotch Scab 18 9 lb ²	51 2 64oz 14 days ³	200-250 ppm 3 15 lb ¹	Apply when bloom buds being to swell and continue application at monthly intervals for five to six applications Use the higher rates when conditions favor disease

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Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended for the pesticide
registered under EPA Reg No. 83704-1

Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
Banana	Sigatoka (Black and Yellow)	19.2 oz	75 ppm	Apply by air in 3 gallons of water if needed agriculture type spray oil may be added Apply on a 14 day schedule or as needed throughout the wet season Apply at 21 day intervals or as needed during dry periods
	Black Pitting 18.9 lb ²	32 oz 7 days ³	125 ppm 1.05 lb ¹	Mix 100 gallons of water Apply to the fruit stem and the basal portion of the leaf crown Apply during the first and second weeks after fruit emergence
Cacao	Black Pod 15.75 lb ²	19.2-64oz 14 days ³	75—250 ppm 3.15 lb ¹	Begin applications at the start of the rainy season and continue while infection conditions persist
Coffee	Coffee Berry Disease (<i>Collectotrichum coffeanum</i>)	38.4-64 oz	150-250 ppm	Apply first spray after flowering and before onset of long rains and then at 21 to 28 day intervals or as needed until picking Use the higher rates when conditions favor disease
	Bacterial Blight (<i>Pseudomonas syringae</i>)	38.4-64 oz	150-250 ppm	Begin spray program before the onset of long rainy periods and continue throughout the rainy season at 14 to 21 day intervals or as needed The critical time for spraying to control disease is just before during and after flowering(s) especially when coinciding with wet weather Use the higher rates when rainfall is heavy and

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 Under the Federal Insecticide Fungicide and Rodenticide Act as amended for the pesticide tests ordered under EPA Reg No 88704-1

Crop	Disease	Rate/Acre	Ppm's (copper) per 100 gallons of water	Instructions
				disease pressure is high
	Leaf Rust (<i>Hemileia vastatrix</i>)	19 2 32 oz	75 ppm	Apply before the onset of rain and then at 21 day intervals or as needed while the rains continue Use the higher rates when rainfall is heavy and disease pressure is high
	Iron Spot (<i>Cercospora coffeicola</i>) Pink Disease (<i>Cortium salmonicolor</i>) 12 6 lb ²	19 2 oz 14 days ³	75 ppm 2 1 lb ¹	Use concentrate or dilute spray Begin treatment at the start of wet season and continue at monthly intervals for three applications
Filbert	Bacterial Blight	64-128 oz	250 500 ppm	Apply as a post harvest spray in seasons of heavy rainfall apply a second spray when three fourths of the leaves have dropped Use the higher rates when rainfall is heavy and disease pressure is high If needed agricultural type spray oil may be added **
	Eastern Filbert Blight 24 0 lbs ²	64-128 oz 14 days ³	250 500 ppm 6 0 lb ¹	Apply as a dilute spray in adequate water for thorough coverage Make applications starting at bud swell to bud break and continue at 2 week intervals or as needed until early May Thorough coverage is essential Use the higher rates when rainfall is heavy and disease pressure is high If needed agricultural type spray oil may be added
Mango	Anthracnose	38 4-64 oz	150 250 ppm	Apply monthly after

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Under the Federal Insecticide
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amended for the pesticide
registered under EPA Reg No 85704-1

Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
	18 2 lb ²	30 days ³	2 6 lb lb ¹	fruit set until harvest Use the higher rates when rainfall is heavy and disease pressure is high *
Olive	Olive Knot Peacock Spot 6 3 lb ²	64 76 8 oz 30 days ³	250 300 ppm 3 15 lb ¹	Make first application before winter rains begin A second application in early spring should be made if disease is severe Apply the higher rates for heavy disease pressure or when conditions favor disease development
Peach Nectarine	Bacterial Blast (<i>Pseudomonas</i>) Bacterial Canker Bacterial Spot (<i>Xanthomonas</i>) Coryneum Blight (Shot Hole) Leaf Curl	51 2 76 8 oz	200-300 ppm	Make first application before fall rains and a second at late dormant For peach leaf curl late dormant application must be made before leaf buds swell Use the higher rates when rainfall and disease pressure is high If needed agricultural type spray oil may be added
	Blossom Brown Rot Coryneum Blight (Shot Hole) Leaf Curl	51 2 76 8 oz	200 300 ppm	Full cover spray at pink bud Use the higher rates when conditions favor disease
	Bacterial Spot 18 0 lb	19 2 oz Dormant late dormant 7 days Bloom/growing season 5 days	75 ppm 8 0 lb 1 5 lb	Post-bloom application applied at first and second cover sprays NOTE Do not spray 3 weeks prior to harvest. Use only recommended rates Spotting of leaves and defoliation may occur from use in cover sprays

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Under the Federal Insecticide
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amended, or the pesticide
registered under LPA Reg No **68904-1**

Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
Pear	Fire Blight	19 2 oz	75 ppm	Apply 5 day intervals or as needed throughout the bloom period NOTE Russetting may occur in copper sensitive varieties Excessive dosages may cause fruit russet on any variety
	Blossom Blast (<i>Pseudomonas</i>) 16 0 lb ²	51 2 76 8 oz Fall – 1 time per season ³ Bloom/growing 5 days ³	200 300 ppm 0 8 lb ¹ 0 5 lb ¹	Apply before fall rains and again during dormancy before spring growth starts Use the higher rates when disease pressure is high or when conditions favor disease development
Pecan	Kernel Rot Shuck Rot (<i>Phytophthora cactorum</i>) Zonate Leaf Spto (<i>Cristulariella pyramidalis</i>)	19 2 32 oz	75 125 ppm	For suppression apply in sufficient water to ensure complete spray coverage at 2 to 4 week intervals or as needed starting at kernel growth and continue until shucks open Use the higher rates and shorter spray intervals if frequent rainfall occurs
	Ball Moss Spanish Moss 8 4 lb ²	38 4 64 oz 14 days ³	150 250 ppm 2 1 lb ¹	Apply in 100 gallons of water in the spring when ball moss is actively growing, using 1 ½ gallons of spray per foot of tree height Make sure to wet ball moss tufts thoroughly The addition of a non ionic surfactant will improve control A second application may be required after 12 months
Pistachio	Botryosphaeria Panicle and Shoot	32 64 oz	125 250 ppm	Make initial application at bud

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in EPA Letter Dated.

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amended or the pesticide
registered under FPA Reg No 88704-1

Crop	Disease	Rate/Acre	Ppm s (copper) per 100 gallons of water	Instructions
	Blight Botytris Blight Late Blight (<i>Alternaria alternate</i>) Septoria Leaf Blight 8 4 lb ²	14 days ³	2 1 lbs ¹	swell and repeat on a 14 to 28 day schedule or as needed If disease conditions are severe use the higher rates and shorter spray intervals
Quince	Fire Blight 16 0 lb ²	19 2 oz Fall 1 time ³ Bloom, 5 days ³	75 ppm 8 0 lb ¹ 0 5 lb ¹	Apply at 5 day intervals or as needed throughout the bloom period Apply in adequate water for thorough coverage **
Walnut	Walnut Blight 25 2 lb ²	38 4 64 oz 7 days ³	150 250 ppm 3 15 lb ¹	Apply at first spray at early pre bloom prior to or when catkins are partially expanded Make additional applications during bloom and early nutlet stage or as needed when frequent rainfall or extended periods of moisture occur Through coverage of catkins leaves and nutlets is essential for effective control NOTE Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present

Maximum per Application Rate (lbs Cu²⁺/A)¹

Maximum Annual Rate (lbs Cu²⁺/A)²

Minimum Retreatment Interval³

Permitted only in Washington State and Oregon**

Not permitted in California*

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WITH COMMENTS
DATE: 12/1/12

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registered under EPA Reg No. 98704-1

VEGETABLES

Crop	Disease	Rate/Acre	Ppm s (copper) Per 100 gallons of water	Instructions
Bean (Dry, Green)	Brown Spot, Common Blight	19 2 25 6 oz	75 100 ppm	For protective sprays make first

	Halo Blight 4.74 lb ²	7 days ³	2.0 lb ¹	application when plants are 6 inches high repeat on a 7 to 14 day schedule or as needed depending on environmental conditions Use the higher rates for more severe disease
Beet (Table Beet Beet Greens)	Cercospora Leaf Spot 7.86 lb ²	19.2-32 oz 10 days ³	75-125 ppm 1.31 lb ¹	Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals or as needed Use the higher rates when conditions favor disease
Carrot	Alternaria Leaf Spot Cercospora Leaf Spot 5.0 lb ²	19.2 oz 7 days ³	75 ppm 1.0 lb ¹	Begin applications when disease first threatens and repeat at 7 to 14 day intervals or as needed depending on disease severity
Celery Celeriac	Bacterial Blight Cercospora Early Blight Septoria Late Blight 5.3 lb ²	19.2 oz 7 days ³	75 ppm 1.0 lb ¹	Begin applications as soon as plants are first established in the field repeating at 5 to 7 day intervals or as needed depending on disease severity and environmental conditions **
Cucifers (Broccoli, Brussel Sprout Cabbage Califlower Collard Greens Mustard Greens Turnip Greens)	Black Leaf Spot (<i>Alternaria</i>) Black Rot (<i>Xanthomonas</i>) Downy Mildew 2.65 lb ²	19.2-25.6 oz 7 days ³	75-100 ppm 0.53 lb ¹	Begin application after transplants are set in the field or shortly after emergence of field seeded crops or when conditions favor disease development Apply at 7 to 10 day intervals or as needed Use the higher rates when conditions favor disease NOTE Reddening of older leaves may occur on broccoli and a flecking of wrapper

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				leaves may occur on cabbage
Cucurbits (Cantaloupe Cucumber, Honeydew Muskmelon Pumpkin, Squash Watermelon)	Alternaria Leaf Spot Angular Leaf Spot Anthracnose, Downy Mildew Gummy Stem Blight Powdery Mildew Watermelon Bacterial Fruit Blotch (suppression)	19 2 25 6 oz	75 100 ppm	Begin applications prior to disease development and continue while conditions are favorable for disease development Repeat at 5 to 7 day intervals or as needed Use the higher rates when conditions favor disease NOTE Crop injury may occur from application at higher rates and shorter intervals Discontinue use if injury occurs
	5 25 lb ²	5 days ³	1 05 lb ¹	
Eggplant	Alternaria Blight Anthracnose Phomopsis	19 2 oz	75 ppm	Begin applications prior to development of disease symptoms Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity
	7 9 lb ²	7 days ³	0 79 lb ¹	
Okra	Anthracnose Bacterial Leaf Spot Leaf Spots Pod Spot Powdery Mildew	19 2-32 oz	75 ppm	Begin treatment when disease first threatens and repeat every 5 to 10 days or as needed depending on disease severity Use the higher rates and shorter spray intervals when conditions favor disease
	5 25 lb ²	5 days ³	1 05 lb ¹	
Onion Garlic	Bacterial Blight Downy Mildew Purple Blotch	19 2 oz	75 ppm	Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals or as needed depending on disease severity Can cause phytotoxicity to leaves
	6 0 lb ²	7 days ³	1 0 lb ¹	
Pea	Powdery Mildew	19 2 25 6 oz	75 100 ppm	Begin applications when disease symptoms first appear and repeat weekly intervals or
	3 95 lb ²	7 days ³	0 79 lb ¹	

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				as needed Use the higher rates when conditions favor disease
Pepper	Anthracnose, Bacterial Spot Cercospora Leaf Spot	19 2 25 6 oz	75 100 ppm	Begin applications when conditions first favor disease development and repeat at 7 to 10 day intervals or as needed depending on disease severity Use the higher rates when conditions favor disease
	11 85 lb ²	3 days ³	0 79 lb ¹	
Spinach				Begin application when disease first appears or when conditions favor disease development Repeat at 7 to 10 day intervals or as needed Use the higher rates when conditions favor disease NOTE Flecking may occur on spinach leaves
Tomato	Anthracnose Bacterial Speck Bacterial Spot Early Blight Gray Leaf Mold Late Blight, Septoria Leaf Spot	19 2 32 oz	75 125 ppm	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
	17 4 lb ²	3 days ³	0 53 lb ¹	
Watercress	Cercospora Leaf Spot	19 2 oz	75 ppm	Begin applications when plants are first established in the field repeating at 7 to 14 day intervals or as needed depending on disease severity Do not exceed four applications per crop Apply using ground spray equipment at no less than 50 gallons of spray solution per acre *
	2 12 lb ²	7 days ³	0 53 lb ¹	

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in EPA Letter Dated

Maximum per Application Rate (lbs Cu²⁺/A)¹

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Under the Federal Insecticide
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included in EPA Reg No 88704-1

Maximum Annual Rate (lbs Cu²⁺/A)²
 Minimum Retreatment Interval³
 Not for use in California*

VINES

Crop	Disease	Rate/Acre	Ppm's (copper) Per 100 gallons of water	Instructions
Grape	Black Rot Downly Mildew Phomopsis Powdery Mildew 20 0 lb ²	19 2 32 oz 3 days ³	75 125 ppm 3 0 lb ¹	Begin applications at bud break with subsequent applications throughout the season depending on disease severity Use the higher rates when conditions favor disease NOTE Foliage injury may occur on copper sensitive varieties such as Concord Delaware Niagara and Rosette
Hops	Downy Mildew 2 65 lb ²	19 2 oz 10 days ³	75 ppm 0 53 lb ¹	Make crown treatments after pruning but before training After training, additional treatments are needed at about 10 day intervals NOTE Discontinue use two weeks before harvest
Kiwi	<i>Erwinia herbicola</i> <i>Pseudomonas</i> <i>flouescens</i> <i>Pseudomonas</i> <i>syriansae</i> 6 3 lb ²	38 4 oz 30 days ³	150 ppm 2 1 lb ¹	Apply in 200 gallons of water per acre Make applications on a monthly basis A maximum of three applications may be

Maximum per Application Rate (lbs Cu²⁺/A)¹
 Maximum Annual Rate (lbs Cu²⁺/A)²
 Minimum Retreatment Interval³

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Fungicide and Rodenticide Act as
amended for the pesticide
registered under EPA Reg No

48704-1

MISCELLANEOUS

Crop	Disease	Rate/Acre	Ppm's (copper) Per 100 gallons of water	Instructions
Atemoya	Anthraxnose	25 6 38 4 oz	100 150 ppm	Make initial application just before flowering and

	12 6 lb ²	7 days ³	3 15 lb ¹	repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage Use the higher rates for severe disease *
Carambola	Anthracnose 10 5 lb ²	38 4 51 2 oz 7 days ³	150-250 ppm 2 1 lb ¹	Make initial application before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage Use the higher rates for severe disease *
Chives	Downy Mildew 2 65 lb ²	19 2 oz 7 days ³	75 ppm 0 53 lb ¹	Begin application when plants are established in the field Repeat every 7 to 10 days or as needed depending on disease conditions *
Dill	Phoma Leaf Spot Rhizoctonia Foliage Blight 3 95 lb ²	19 2 25 6 oz 7 days ³	75 100 ppm 0 79 lb ¹	Begin applications when plants are first established in the field and repeat at 7 10 day intervals or as needed depending on disease severity and environmental conditions Use the higher rates for severe disease *
Guava	Anthracnose Red Algae 4 92 lb ²	25 6 38 4 oz 7 days ³	100 150 ppm 1 23 lb ¹	Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage Use the higher rates for severe disease
Litchi	Anthracnose	25 6 38 4 oz	100 150 ppm	Make initial application just before flowering and repeat on a weekly schedule until just before harvest Use the higher rates for

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	4 92 lb ²	7 days ³	1 23 lb ¹	severe disease *
Macadamia	Anthraco nose	38 4 64 oz	150 250 ppm	Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest Apply insufficient water for thorough coverage Use the higher rates for severe disease
	Phytophthora Blight (<i>P capsici</i>) Raceme Blight (<i>Botrytis cinerea</i>)	38 4 64 oz	150 250 ppm	Apply during aceme development and bloom periods Apply in sufficient water for through coverage Use the higher rates when conditions favor disease
	9 44 lb ²	7 days ³	2 36 lb ¹	
Mamey Sapote	Algal Leaf Spot	38 4 64 oz	150 250 ppm	Apply when conditions favor disease development Repeat on a 14 to 30 schedule or as needed as disease severity and environmental conditions dictate Use the higher rates when conditions favor disease
	8 4 lb ²	14 days ³	2 1 lb ¹	

Maximum per Application Rate (lbs Cu²⁺/A)¹
 Maximum Annual Rate (lbs Cu²⁺/A)²
 Minimum Retreatment Interval³
 Not for use in California*

GREENHOUSE and SHADEHOUSE CROPS

Notice to Users CuH₂O may be used in greenhouses and shade houses to control diseases on crops which appear on this label and specific instructions have been developed for crops listed The grower should bear in mind the sensitivity of crops grown in greenhouses and shadehouses differs greatly from crops grown under field conditions Neither the manufacturer nor the seller has determined whether or not CuH₂O can be used safely on all green hose and shadehosue grown crops Consequently, injury arising from the use of CuH₂O on these types of greenhouse and shadehouse crops is the responsibility of the user The user should determine if CuH₂O Can be used safely prior to commercial use In a small area apply the recommended rates to the plants in question i e foliage fruit etc and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use

Apply CuH₂O according to specific rates given for those crops in ounces per acre **One fluid ounce = 29 5 milliliters = 6 teaspoons per 1,000 square feet is equivalent to 21 5 ounces per acre** CuH₂O should be applied in adequate water for thorough coverage of plant parts Begin application at first sign of disease and repeat at 7 to 14 day intervals or as needed use shorter spray intervals during periods when severe disease conditions persist

NOTE Phytotoxicity may occur on young tender flush when CuH₂O is applied to citrus seedlings

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 in EPA Letter Dated
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greenhouses or shadehouses			
Crop	Disease	Rate	Instructions
Citrus (Non Bearing Nursery)	Brown Rot, citrus Canker Greasy Spot Melanose Pink Pitting Scab	15 milliliters	Begin applications when disease first threatens Repeat at 30 day intervals or as needed depending on disease severity
Cucumber	Angular Leaf Spot Downy Mildew	5 12 milliliters	Apply weekly when plants begin to vine Use the higher rates when conditions favor disease
Eggplant	Alternaria Blight Anthracnose Phomopsis	9 milliliters	Begin applications prior to development of disease to symptoms Repeat at 7 to 10 day intervals or as needed depending on disease pressure
Pepper	Bacterial Spot	9 15 milliliters	Begin applications when conditions favor disease development and repeat at 5 to 10 day intervals or as needed depending on severity Use the higher rates when conditions favor disease
Tomato	Anthracnose, Bacterial Speck Bacterial Spot Early Blight Gray Leaf Mold Late Blight Septoria Leaf Spot	9 15 milliliters	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

LIMITED WARRANTY AND LIMITATION OF REMEDIES

Seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS or MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions or under abnormal conditions not foreseeable to the seller In no case shall the seller be liable for more than the cost of the product to the buyer, and will I no event be liable for any consequential, special or indirect damages connected with the use or handling of this product This product is offered and the buyer or user accepts its subject to the foregoing terms which may be not be varied

STORAGE AND DISPOSAL

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

Pesticide Storage Store in a safe place away from pets and children Store away from excessive heat Always keep container closed Store product in its original container only

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Under the Federal Insecticide
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enacted under FPA Reg No 88704-1

Pesticide Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

{Household/residential instructions}

Nonrefillable container Do not reuse or refill this container

If empty Place in trash or offer for recycling, if available

If partly filled Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

{Non-household/non-residential residue removal instructions for rigid nonrefillable containers equal to or less than 50 lbs}

Nonrefillable container Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Offer for recycling, if available.

{Non-household/non-residential residue removal instructions for rigid nonrefillable containers greater than 50 lbs }

Nonrefillable container Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Offer for recycling, if available.

ACCEPTED
with COMMENTS
in EPA Letter Dated.

SEP 27 2012

Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended for the pesticide
registered under EPA Reg No 88704-1