

10465-3

8/21/2012

1/29



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Mineral Research and Development
Chemical Specialties Inc
c/o Lynne Zahigian
Lynne Zahigian Regulatory Consulting
PO Box 1566
Fallon NV 89407

AUG 21 2012

Subject Application for Pesticide Notification (PRN 98 10)
 Copper Count N
 EPA Registration No 10465 3
 Decision No 468498
 Submission Date 7/26/12

Dear Ms Zahigian

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98 10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98 10 and finds that the action requested falls within the scope of PRN 98 10.

The Agency acknowledges the correction to the Citrus copper application rate removal of 'Citrus (Field Grown)' and inclusion of the statement 'Not for use in California on pages 7 17 25 and 26.

The label submitted with the application has been stamped Notification and will be placed in our records. If you have questions concerning this letter, please contact Dominic Schuler at (703) 347 0260 or via email at schuler.dominic@epa.gov

Sincerely

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish
Product Manager 22
Fungicide Branch
Registration Division (7504P)

2/29

Please read instructions on reverse before comp.

form

Form Approver

MB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide Section I

1 Company/Product Number 10465 3	2 EPA Product Manager Tony Kish	3 Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4 Company/Product (Name) COPPER COUNT N®	PM# 22	
5 Name and Address of Applicant (Include ZIP Code) Mineral Research & Development Corporation A Division of CHEMICAL SPECIALTIES INC 5910 Pharr Mill Road Harrisburg NC 28075 <input type="checkbox"/> Check if this is a new address	6 Expedited Review In accordance with FIFRA Section 3(c)(3) (b)(i) my product is similar or identical in composition and labeling to EPA Reg No _____ AUG 21 2012 Product Name _____	

Section II

<input type="checkbox"/> Amendment Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> Me Too Application
<input checked="" type="checkbox"/> Notification Explain below	<input type="checkbox"/> Other Explain below

Explanation Use additional page(s) if necessary (For section I and Section II)

Notification to correct a typographical error and to add the statement Not for use in California to Mangoes See cover letter for explanation This notification is consistent with the guidance in PR Notice 98 10 and the requirements of EPA regulations at 40 CFR 156 10 and 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula of this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to EPA I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and the requirements of 40 CFR 156 10 and 40 CFR 152 46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA

Section III

1 Material This Product Will Be Packaged In				2 Type of Container	
Child Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
	If Yes Unit Packaging wgt	No per container	If Yes Package wgt	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3 Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4 Size(s) Retail Container 1pt 1qt, 2 qt, 3 gal 55 gal 274 gal Tentacles / Raincoats		5 Location of Label Directions <input checked="" type="checkbox"/> on Container	
6 Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section IV

1 Contact Point (Complete items directly below for identification of individual to be contacted if necessary to process this application)			
Name Thorn Baccich	Title Agent	Telephone No (Include Area Code) 704/644/4811	
Certification I certify that the statements I have made on this form and all attachments thereto are true accurate and complete I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law			6 Date Application Received (Stamped)
2 Signature Thorn Baccich by Lynne C Zahigian	3 Title Agent		
4 Typed Name Lynne C Zahigian on behalf of Thorn Baccich	5 Date July 26 2012		

Lynne
Zahigian
Regulatory Consulting

July 26 2012

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
Registration Division
U S Environmental Protection Agency
1200 Pennsylvania Ave NW
Washington DC 20460

ATTENTION Tony Kish
Program Manager Team 22

SUBJECT Mineral Research & Development Corp
Division of Chemical Specialties Inc
Copper Count N (EPA Reg No 10465 3)

Dear Mr Kish

On behalf of Chemical Specialties Inc I am submitting the enclosed Notification to add statements to the label that are allowed under PR Notice 98 10

The proposed revisions or additions to the Master Label are as follows

- 1 On page 6 of 26 CITRUS – Instructions we wish to correct the aerial application maximum allowable lbs metallic copper per 10 gallons There was a typographical error of 1 16 – 1 15 lbs which should be 1 16 – 1 54 lbs metallic copper/10 Gals
- 2 On page 6 of 26 we wish to remove the CROP entry for CITRUS (Field Nursery Grown) We had run into issues in California with this entry and have decided to remove it
- 3 On Pages 7 17 and 25 of 26 we are adding the statement (Not for use in California) There is not currently any data on file with California for this active ingredient to be used on Mangoes

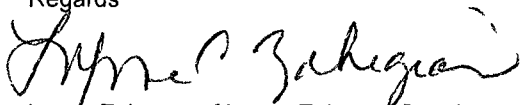
Please find enclosed the following in support of this Notification

- 1) A completed Application for Pesticide (Form 8570 1)
- 2) A copy of the revised Master Label with the proposed additions highlighted A copy of the revised Master Label without highlights

NOTE If you have any questions regarding the revisions to this label we would prefer that you contact Lynne Zahigian at (775) 423 9122 She has helped us update our label

If you have any questions for me I can be contacted at (704) 454 4811

Regards



Lynne Zahigian of Lynne Zahigian Regulatory Consulting
On behalf of Thorn Baccich of Chemical Specialties

cc MR/EPA/Copper Count N Master File
Lynne Zahigian Regulatory Consulting

8/29
8/6

(Master Label)

NOTIFICATION ^{4/29}

AUG 21 2012

Copper-Count-N

LIQUID
FUNGICIDE
SPRAY

ACTIVE INGREDIENT

Copper diammonia diacetate complex
[Bis (acetate O) Diamminecopper]
CAS No 13822 80 5

By Wt

27 15%

OTHER INGREDIENTS

72 85%

TOTAL

100 00%

Metallic Copper Equivalent 8 0%
Contains 0 773 Lbs Copper per gallon

SUBLABEL A Commercial/Agricultural Crop Fungicide/Wood Treatment Label
SUBLABEL B Residential Plant Fungicide Label
SUBLABEL C Residential Hose End Sprayer Label

EPA Reg No 10465 3

EPA Est No 10465 NC 1
48498 CA 1

NET CONTENTS 1 Pint 1 Quart 2 5 Gallons 30 gallons 55 gallons 274 gallons
Bulk Tank Trucks and Railcars

Manufactured by/for
Mineral Research & Development Corp
Division of Chemical Specialties Inc
5910 Pharr Mill Road
Harrisburg NC 28075
(704) 454 4811

5/29

(Sublabel A – Commercial/Agricultural Crop Fungicide/
Wood Treatment Uses)

Copper-Count-N

**LIQUID
FUNGICIDE
SPRAY**

ACTIVE INGREDIENT	By Wt
Copper diammonia diacetate complex	27 15%
[Bis (acetate O) Diamminecopper]	
CAS No 13822 80 5	
OTHER INGREDIENTS	<u>72 85%</u>
TOTAL	100 00%

Metallic Copper Equivalent 8 0 %
Contains 0 773 Lbs Copper per gallon

EPA Reg No 10465 3

EPA Est No 10465 NC 1
48498 CA 1

NET CONTENTS 2 5 Gallons 30 gallons 55 gallons 274 gallons
Bulk Tank Trucks and Railcars

Manufactured by / for
Mineral Research & Development Corp
Division of Chemical Specialties Inc
5910 Pharr Mill Road
Harrisburg NC 28075
(704) 454 4811

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

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 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 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 the poison control center or doctor Do not give anything by mouth to an unconscious person

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact the National Pesticide Information Center at 1 800 858 7378 for emergency medical treatment information

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Causes eye and skin irritation Harmful if swallowed absorbed through the skin or inhaled Avoid contact with the skin eyes or clothing Avoid breathing vapor or spray mist

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below If you want more options follow the instructions for category G on an EPA chemical resistance category selection chart

Mixers loaders applicators and other handlers must wear the following

- Long sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or viton
- Shoes plus socks

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

When handlers use closed systems enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240 (d) (4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
- Remove PPE immediately after handling this product Wash the outside of gloves before removing 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 more runoff that contains this product Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark Do not contaminate water when disposing of equipment washwaters or rinsate

[This statement is to be used only for containers 5 gallons or larger and for Wood Based Composites Uses] 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 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

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

Shake well before using

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 and greenhouses and handlers of agricultural pesticides It contains requirements for training decontamination notification and emergency assistance It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is Coveralls over long sleeved shirt and long pants chemical resistant gloves made of any waterproof material chemical resistant footwear plus socks chemical resistant headgear for overhead exposure and protective eyewear

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

For at least seven days following the application of copper containing products 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 highly 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

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard 40 CFR part 170 The Worker Protection Standard applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses Do not enter or allow others to enter the treated area until sprays have dried

CHEMIGATION

Apply this product only through center pivot motorized lateral move or traveling gun sprinkler irrigation systems that do not contain aluminum components Do not apply this product through any other type of irrigation system Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water If you have questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments would the need arise

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

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

The system must contain 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 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 or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected

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 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 the nurse tank half full with water Add COPPER COUNT N slowly to the tank while hydraulic or mechanical agitator operating and continue filling the tank with water Stickers spreaders nutrients insecticides etc should be added last If the compatibility is questionable use the compatibility jar test before mixing a whole tank Because of the wide variety of possible combinations that can occur observe all cautions and limitations on the labels of all the products used in mixtures

COPPER COUNT N should be continuously added through a traveling irrigation system Agitation is recommended

APPLICATION AND CALIBRATION TECHNIQUES FOR SPRINKLER IRRIGATION

Center Pivot Motorized Lateral Move and Traveling Gun Irrigation Equipment

Operate system and injection equipment at normal pressures recommended by the manufacturer of the injection equipment used Fill tank of injection equipment with water Operate system for one complete circle for center pivot or one complete run for motorized lateral move or traveling gun equipment measuring time required amount of water injected and acreage contained in circle or run Mix recommended amount of COPPER COUNT N for acreage to be covered into the same amount of water used during calibration and inject into system continuously for one revolution or run Shut off

Injection equipment after one revolution or run but continue to operate irrigation system until COP COUNT N has been cleared from the last sprinkler head

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity) and the method of application (e.g. ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

Apply only as a medium or coarser spray (ASE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph) and there are no sensitive areas within 250 feet downwind.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

For aerial application, the boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

For ground boom application, do not apply with a nozzle height greater than 4 feet above the crop canopy.

INFORMATION

The control of diseases with fungicides is based on PREVENTION. Plant surfaces must be completely covered with the fungicide to successfully prevent infection. Copper pesticides are considered preventative, not curative of plant diseases. Use the highest indicated rate per crop when disease incidence is high or expected to be, depending on rainfall and temperature. The lower rate is suitable for general preventive sprays under normal conditions. Since weather conditions and disease incidence vary, consult your Agricultural Extension Service for timing and initial application.

PRODUCT INSTRUCTIONS

Partially fill the spray tank with water, add the desired amount of COPPER COUNT N, and continue filling the tank. If applied with other products, add COPPER COUNT N last. Use agitation during mixing and application until tank is empty. Good bypass agitation is adequate. Observe all cautions and limitations on labeling of all products used in mixtures. In common with all good agricultural practice, start with clean equipment; equipment should be flushed well with water after use.

GROUND APPLICATION Dilute Spraying Apply specified rate in 10 to 100 gallons of water per acre. **Orchard and Grove Spraying** Apply specified rate in 100 to 800 gallons of water per acre. **Concentrate Spraying** On vegetable crops, use 5 to 25 gallons of spray mixture per acre; on fruit and nut trees, use 20 to 250 gallons per acre.

AIR APPLICATION Apply specified rate in 3 to 20 gallons of water per acre.

FRUIT AND NUT CROPS

CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
ALMONDS	Brown Rot	8 – 12 qts/A (1.55 – 2.32 lbs. metallic copper/A)	Apply at delayed dormant bud swell stage. Dormant oil may be used if additional applications are needed, apply at no less than 7 day intervals.
	Shot Hole	8 – 12 qts/A (1.55 – 2.32 lbs. metallic copper/A)	Apply as a dormant spray at leaf fall to protect buds and shoots from infection during rainy periods. Reapply every 3 to 4 weeks up to late bud swell. Do not apply at less than 7 day intervals. Do not apply after full bloom.
NOTE: Do not apply more than 93.2 quarts of Copper Count N (18.0 lbs. of metallic copper) to Almonds per acre per year.			
APPLES	Anthraxnose	8 – 10 qts/A (1.55 – 1.93 lbs. metallic copper/A)	Apply as a dormant spray once to foliage after harvest.
	Apple Scab (Black Spot), Bacterial Canker, Blossom and Shoot Blast	8 – 12 qts/A (1.55 – 2.32 lbs. metallic copper/A)	Apply as a dormant spray once post harvest before leaf fall.
	Crown or Collar Rot	4 qts/A (0.77 lb. metallic copper/A)	Apply as a dormant application. Mix in 100 gallons of water. Apply 4 gallons of suspension as a drench on the lower trunk area of each tree. Apply once either in early spring or in late fall after harvest. Do not use if soil pH is below 5.5 since copper toxicity may result.
	Fire Blight	1 – 2 qts/A (0.196 – 0.392 lbs. metallic copper/A)	Apply at 10% bloom and repeat at no less than 5 – 7 day intervals during the bloom period. Do not use on copper sensitive varieties.
		8 – 12 qts/A (1.55 – 2.32 lbs. metallic copper/A)	Apply once as a full cover spray between silver tip and green tip. Do not apply when green tip reaches 1/2 inch as injuries may occur.
NOTE: Do not apply more than 82.9 quarts of Copper Count N (16.0 lbs. of metallic copper) to Apples per acre per year.			

(Continued on next page)

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CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
APRICOTS	Brown Rot Blossom Blight Shot Hole	8 – 12 qts/A (1 55 – 2 32 lbs metallic copper/A)	Apply as a dormant spray at leaf fall to protect buds and shoots from infection during rainy periods Reapply up to late bud swell at no less than 7 day intervals Do not apply after full bloom
	NOTE Do not apply more than 93 2 quarts of Copper Count N (18 0 lbs of metallic copper) to Apricots per acre per year		
AVOCADOS	Anthraxnose	8 qts/A (1 55 lbs metallic copper/A)	Apply when the flower buds begin to swell and monthly intervals until August
	NOTE Do not apply more than 97 9 quarts of Copper Count N (18 9 lbs of metallic copper) to Avocados per acre per year		
BANANAS	Sigatoka	2 – 4 qts/A (0 39 – 0 77 lbs metallic copper/A)	Apply every 3 to 4 weeks
	Black Pitting	5 qts/A (0 97 lbs metallic copper/A)	Mix in 100 gallons of water Apply directly to the fruit stem and include the basal portion of the leaf crown Apply during the first and second weeks after fruit emergence Do not apply at less than 7 day intervals
	NOTE Do not apply more than 97 9 quarts of Copper Count N (18 9 lbs of metallic copper) to Bananas per acre per year		
BLUEBERRIES	Bacterial Canker	4 10 qts/A (0 77 – 1 93 lbs metallic copper/A)	Apply with a spreader sticker before fall rains and again 4 weeks later
	Cane Canker	4 – 10 qts/A (0 77 – 1 93 lbs metallic copper/A)	Apply with a spreader sticker before fall rains and again 4 weeks later In the spring during wet weather apply at 10 14 day intervals beginning at leaf emergence
	NOTE Do not apply more than 43 5 quarts of Copper Count N (8 4 lbs of metallic copper) to Blueberries per acre per year		
CANE BERRIES	Anthraxnose Leaf and Cane Spot Purple Blotch Yellow Rust	2 – 6 qts/A (0 39 – 1 16 lbs metallic copper/A)	Apply when leaf buds open Repeat when flower buds show white and continue at 10 14 day intervals
	Anthraxnose Bacterial Blight Leaf and Cane Spot Purple Blotch Yellow Rust	8 – 10 qts/A (1 55 – 1 93 lbs metallic copper/A)	Apply once in the fall after harvest
	NOTE Do not apply more than 51 8 quarts of Copper Count N (10 0 lbs of metallic copper) to Caneberries per acre per year		
CHERRIES	Deadbud Coryneum Blight	6 qts/100 Gals (1 16 lbs metallic copper)	Apply as a dormant spray before heavy fall rains and again in late winter
	Brown Rot Blossom Blight	2 – 3 qts/100 Gals (0 39 – 0 58 lbs metallic copper/A)	Apply as a full cover spray at popcorn stage and at full bloom If an additional application is needed do not apply at less than 7 day intervals
	NOTE Do not apply more than 93 2 quarts of Copper Count N (18 0 lbs of metallic copper) to Cherries per acre per year		
CITRUS	Greasy Spot Melanose Pink Pitting Scab	3/4 2 qts/100 Gals (0 14 – 0 39 lbs metallic copper/100 Gals)	Apply as pre bloom and post bloom sprays May be used in concentrate sprays at equivalent rates For aerial applications use 6 – 8 qts/10 gallons (1 16 – 1 54 lbs metallic copper/10 Gals) Do not apply at less than 7 day intervals
	Brown Rot	2 – 6 qts/A (0 39 – 1 16 lbs metallic copper/A)	Apply in the fall before or just after heavy rains In areas of skirt sprays apply to a height of at least 4 feet Do not apply at less than 7 day intervals
	NOTE Do not apply more than 65 2 quarts of Copper Count N (12 6 lbs of metallic copper) to Citrus per acre per year		
COCAO	Black Pod Rot	2 – 4 qts/A (0 39 – 0 77 lbs metallic copper/A)	Apply on a 14 21 day schedule in high rainfall areas
	NOTE Do not apply more than 81 6 quarts of Copper Count N (15 75 lbs of metallic copper) to Cocoa per acre per year		
COFFEE	Iron Spot Pink Disease	2 – 8 qts/A (0 39 – 1 54 lbs metallic copper/A)	Apply 3 applications at monthly intervals at the beginning of the wet season
	Bacterial Blight Berry Spot Leaf Spot Leaf Rust	3 – 8 qts/A (0 58 – 1 54 lbs metallic copper/A)	Apply as locally recommended usually at 3 – 4 week intervals (but at no less than 14 day intervals) depending upon disease severity and rainfall conditions
	NOTE Do not apply more than 65 2 quarts of Copper Count N (12 6 lbs of metallic copper) to Coffee per acre per year		
CRANBERRIES	Fruit Rot	4 to 8 qts/A (0 77 1 54 lbs metallic copper/A)	Apply beginning in late bloom One or two additional applications made at 10 14 day intervals may be required depending on disease pressure Follow the advice of the State Agricultural Extension Service
	NOTE Do not apply more than 65 2 quarts of Copper Count N (12 6 lbs of metallic copper) to Cranberries per acre per year		

(Continued on next page)

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CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
CURRANTS GOOSEBERRIES	Anthracnose Leaf Spot (Cane Blight)	5 – 10 qts/A (0.97 – 1.93 lbs metallic copper/A)	Make 3 applications starting after harvest before bloom and after petal fall. Do not make applications at less than 10 day intervals.
	NOTE: Do not apply more than 82.9 quarts of Copper Count N (16.0 lbs of metallic copper) to Currants/Gooseberries per acre per year.		
FILBERTS (Permitted only in Washington State and Oregon)	Bacterial Blight	8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A)	Apply after harvest. Under severe conditions apply again when 1/2 of the leaves have dropped. Do not apply at less than 14 day intervals.
	Eastern Filbert Blight	8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A)	Make initial application after harvest in October before heavy rains begin. The next application should be made in late February to early March followed by another application 1 month later. If desired add 1 pint of a sticking agent or superior type oil per 100 gallons of water. Do not apply at less than 14 day intervals. Use higher rate when rainfall is heavy and disease pressure is high.
	NOTE: Do not apply more than 124.3 quarts of Copper Count N (24.0 lbs of metallic copper) to Filberts per acre per year.		
GRAPES	Anthracnose Black Rot Downy Mildew Powdery Mildew	2 qts/A (0.39 lbs metallic copper/A)	Apply just before bud break when the shoots are 6 – 8 inches long just after bloom and every 4 – 10 days throughout the season as needed. Foliar injury may occur on copper sensitive varieties.
	NOTE: Do not apply more than 103.6 quarts of Copper Count N (20.0 lbs of metallic copper) to Grapes per acre per year.		
HOPS	Downy Mildew	2 qts/A (0.39 lbs metallic copper/A)	Apply as needed at no less than 10 day intervals. Begin with crown treatment (after pruning but before training) and continue until 2 weeks before harvest.
	NOTE: Do not apply more than 13.7 quarts of Copper Count N (2.65 lbs of metallic copper) to Hops per acre per year.		
KIWI	<i>Pseudomonas syringae</i> <i>Erwinia herbicola</i> <i>Pseudomonas fluorescens</i>	8 qts/A (1.54 lbs metallic copper/A)	Apply in 200 gallons of water per acre. Make applications on a monthly basis. A maximum of 3 applications may be made.
	NOTE: Do not apply more than 32.6 quarts of Copper Count N (6.3 lbs of metallic copper) to Kiwi per acre per year.		
LIMES	Greasy Spot	8 qts/A (1.54 lbs metallic copper/A)	Apply in June and continue at monthly intervals through August.
	NOTE: Do not apply more than 65.2 quarts of Copper Count N (12.6 lbs of metallic copper) to Limes per acre per year.		
MANGOS (Not for use in California)	Anthracnose	8 qts/A (1.54 lbs metallic copper/A)	Apply at 7 day intervals from the time the panicles are 2 inches in length until all fruits are set and monthly thereafter until August.
	NOTE: Do not apply more than 248.7 quarts of Copper Count N (48 lbs of metallic copper) to Mangos per acre per year.		
OLIVES	Peacock Spot	8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A) or 2 – 3 qts/100 gals (0.39 – 0.58 lbs metallic copper/100 gals)	Make first application before winter rains fall. A second application should be made in early spring if disease is severe. If additional applications are necessary apply at no less than 30 day intervals.
	NOTE: Do not apply more than 93.2 quarts of Copper Count N (18.0 lbs of metallic copper) to Olives per acre per year.		
	PEACHES NECTARINES	Bacterial Spot	8 – 12 qts/A 1.54 – 2.32 lbs /metallic copper
		1 qt/A (0.19 lbs metallic copper/A)	Post bloom Application. Apply at 1/2 pint per 100 gallons at first and second cover sprays. Do not apply at less than 5 day intervals. DO NOT spray later than 3 weeks prior to harvest. DO NOT use at rate above that recommended. NOTE: Slight defoliation and spotting of leaves may occur from use in cover sprays.
Blossom Brown Rot Leaf Curl Shot Hole		8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A)	Apply as a dormant and delayed dormant spray. Can use with dormant spray oil. Do not apply at less than 7 day intervals. Do not apply at or after full bloom.
NOTE: Do not apply more than 93.2 quarts of Copper Count N (18.0 lbs of metallic copper) to Peaches/Nectarines per acre per year.			
PEARS QUINCE	Fire Blight	1 – 2 qts/A (0.19 – 0.39 lbs metallic copper/A)	Apply at 10/ bloom and repeat at 5 – 7 day intervals throughout the bloom period. Do not use on copper sensitive varieties.
	Blossom Blast	8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A)	Only one application per year is permitted in fall: late dormant season.
	NOTE: Do not apply more than 82.9 quarts of Copper Count N (16.0 lbs of metallic copper) to Pears/Quince per acre per year.		

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CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
PECANS	Shuck and Kernel Rot Zonate Leaf Spot	4 – 10 qts/A (0.77 – 1.93 lbs metallic copper/A)	For suppression apply in sufficient water to ensure complete spray coverage at 2 – 4 week intervals (no less than 14 day intervals) starting at kernel growth and continuing until shucks open Use the higher rate and shorter interval if frequent rainfall occurs
	NOTE Do not apply more than 43.5 quarts of Copper Count N (8.4 lbs of metallic copper) to Pecans per acre per year		
PISTACHIOS	Alternaria Late Blight	8 – 10 qts/A (1.54 – 1.93 lbs metallic copper/A)	Apply at 50% and full bloom followed by up to 3 applications at 30 day intervals
	Botrytis Blight Botryosphaeria Panicle Shoot Blight Septoria Leaf Blight	8 – 10 qts/A (1.54 – 1.93 lbs metallic copper/A)	Make initial application at bud swell and repeat on a 14–28 day schedule as dictated by disease conditions If disease conditions are severe use the higher rate and shorter interval
	NOTE Do not apply more than 43.5 quarts of Copper Count N (8.4 lbs of metallic copper) to Pistachios per acre per year		
PLUMS PRUNES	Bacterial Blast Bacterial Canker Brown Rot Blossom Blight Coryneum Blight (Shot Hole)	8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A)	Apply as a dormant spray and at early green bud to full popcorn stages Do not apply at less than 7 day intervals
	NOTE Do not apply more than 93.2 quarts of Copper Count N (18.0 lbs of metallic copper) to Plums/Prunes per acre per year		
WALNUTS	Walnut Blight	8 – 12 qts/A (1.54 – 2.32 lbs metallic copper/A)	Make first application at early pre bloom Make second application at late pre bloom Make additional applications at no less than 7 day intervals if disease conditions persist
	NOTE Do not apply more than 165.8 quarts of Copper Count N (32 lbs of metallic copper) to Walnuts per acre per year		

FIELD AND VEGETABLE CROPS

CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
ALFALFA	Leaf Spot	1 – 2 qts/A (0.19 – 0.39 lbs metallic copper/A)	Apply by ground or air 10-14 days prior to harvest If additional applications are necessary do not apply at less than 30 day intervals Slight injury may occur to sensitive varieties
	NOTE Do not apply more than 5.8 quarts of Copper Count N (1.12 lbs of metallic copper) to Alfalfa per acre per year		
BEANS PEAS LENTILS (Succulent and Dry)	Bacterial Blight (Halo and Common)	1 – 3 qts/A (0.19 – 0.58 lbs metallic copper/A)	Apply when plants are 3 – 5 inches high and before diseases appear Repeat at 7-10 day intervals Apply at 7 day intervals when disease pressure is severe
	NOTE Do not apply more than 24.5 quarts of Copper Count N (4.74 lbs of metallic copper) to Beans/Peas/Lentils per acre per year		
BEETS SUGARBEETS	Cercospora Leaf Spot	1/3 qts/A (0.29 – 0.58 lbs metallic copper/A)	Apply when disease appears making 3 to 6 sprays at 10-14 day intervals Apply at 10 day intervals when disease pressure is severe
	NOTE Do not apply more than 40.7 quarts of Copper Count N (7.86 lbs of metallic copper) to Beets/Sugarbeets per acre per year		
CARROTS	Early Blight Late Blight	2 – 3 qts/A (0.39 – 0.58 lbs metallic copper/A)	Apply when plants are 6" high Make 3 to 5 applications at 7 – 10 day intervals
	NOTE Do not apply more than 25.9 quarts of Copper Count N (5.0 lbs of metallic copper) to Carrots per acre per year		
CELERY	Bacterial Blight Early Blight Late Blight	2 – 3 qts/A (0.39 – 0.58 lbs metallic copper/A)	Apply as soon as plants are established in the field and repeat at no less than 7 day intervals
	NOTE Do not apply more than 27.4 quarts of Copper Count N (5.3 lbs of metallic copper) to Celery per acre per year		
CORN (Field Pop Sweet)	Bacterial Rot Bacterial Stripe Bacterial Wilt Leaf Blight Stalk Rot	2 qts/A (0.39 lbs metallic copper/A)	Apply when disease appears and repeat at no less than 7 day intervals
	NOTE Do not apply more than 21.7 quarts of Copper Count N (4.2 lbs of metallic copper) to Corn per acre per year		
CRUCIFERS [Broccoli Brussels Sprouts Cabbage Cauliflower Greens (Collard Mustard and Turnip)]	Blackleaf Spot Black Rot	1 – 2 qts/A (0.19 – 0.39 lbs metallic copper/A)	Apply by ground or air when disease appears and repeat at 7-10 day intervals
	Downy Mildew	1 qt/A (0.1 – 0.19 lbs metallic copper/A)	Apply by ground or air when disease appears and repeat at 7-10 day intervals
	NOTE Do not apply more than 13.7 quarts of Copper Count N (2.65 lbs of metallic copper) to Crucifers per acre per year		
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	1/2 qts/A (0.29 – 0.39 lbs metallic copper/A)	Apply by ground or air when disease appears and repeat at 7-10 day intervals
	NOTE Do not apply more than 27.2 quarts of Copper Count N (5.25 lbs of metallic copper) to Cucurbits per acre per year		

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CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
EGGPLANT	Alternaria Blight Anthracnose Phomopsis	2 qts/A (0.39 lbs metallic copper/A)	Apply before disease appears and repeat at 7-10 day intervals
	NOTE Do not apply more than 40.9 quarts of Copper Count N (7.9 lbs of metallic copper) to Eggplant per acre per year		
ONIONS	Downy Mildew Purple Blotch	2 qts/A (0.39 lb metallic copper/A)	Apply when plants are 4 – 6 inches high and repeat at 7-10 day intervals
	NOTE Do not apply more than 31.0 quarts of Copper Count N (6.0 lbs of metallic copper) to Onions per acre per year		
PEANUTS	Cercospora Leaf Spot	1/3 qts/A (0.29 – 0.59 lbs metallic copper/A)	Apply on first appearance of disease and repeat at 10-14 day intervals
	Pod Rot Complex (Pythium mynotylum Rhizoctonia solani and Sclerotium rolfsii)	4 qts/A (0.77 lbs metallic copper/A)	Apply at pegging in a 12 – 15 inch band over the row. If repeat application is necessary do not apply at less than 7 day intervals
	NOTE Do not apply more than 24.6 quarts of Copper Count N (4.74 lbs of metallic copper) to Peanuts per acre per year		
PEPPERS	Bacterial Spot Cercospora Leaf Spot	1/3 qts/A (0.29 – 0.59 lbs metallic copper/A)	Make first application upon emergence of seedlings or immediately after transplanting and repeat at 7-10 day intervals. When disease is severe apply at 4-5 day intervals. NOTE Disease control is critical during fruiting
	NOTE Do not apply more than 61.3 quarts of Copper Count N (11.85 lbs of metallic copper) to Peppers per acre per year		
POTATOES	Early Blight Late Blight	1/3 qts/A (0.29 – 0.59 lbs metallic copper/A)	Apply on first appearance of disease and repeat at 7-10 day intervals
	NOTE Do not apply more than 129.5 quarts of Copper Count N (25.0 lbs of metallic copper) to Potatoes per acre per year		
SPINACH	Anthracnose Cercospora Leaf Spot Downy Mildew	1/3 qts/A (0.29 lbs metallic copper/A)	Apply on first appearance of disease and repeat at 7 – 10 day intervals
	NOTE Do not apply more than 20.4 quarts of Copper Count N (3.95 lbs of metallic copper) to Spinach per acre per year		
STRAWBERRIES	Leaf Spot Scorch	1/2 qts/A (0.29 – 0.39 lbs metallic copper/A)	Apply at 7 – 10 day intervals from the time new growth starts until harvest
	NOTE Do not apply more than 42.4 quarts of Copper Count N (8.19 lbs of metallic copper) to Strawberries per acre per year		
TOBACCO	Angular Leaf Spot	4 – 5 qts/A (0.77 – 0.97 lbs of metallic copper/A)	Apply at 10 day intervals when disease appears. Destroy all infected plants
	Blue Mold	2 qts/A (0.39 lbs metallic copper/A)	Apply at 10 day intervals when disease appears
	Brown Spot	4 – 5 qts/A (0.77 – 0.97 lbs of metallic copper/A)	Apply at 10 day intervals when disease appears
	Damping Off Disease	5 – 6 qts/A (0.97 – 1.16 lbs metallic copper/A)	Avoid overwatering. Apply once to the seed bed after planting
	Frog Eye Disease	4 – 5 qts/A (0.77 – 0.97 lbs metallic copper/A)	Apply just before transplanting and when topped
	Wild Fire	2 qts/A (0.39 lbs metallic copper/A)	Apply at 10 days intervals from seeding to transplanting
	NOTE Do not apply more than 41.4 quarts of Copper Count N (8.0 lbs of metallic copper) to Tobacco per acre per year		
TOMATOES (Processing)	Bacterial Speck Bacterial Spot Early Blight Late Blight	1/2 qts/A (0.29 – 0.48 lbs metallic copper/A)	Make first application upon emergence of seedlings or immediately after transplanting and repeat at 7-10 day intervals. Do not apply at less than 3 day intervals. Complete coverage is essential for disease control. NOTE While the labeled rate is particularly effective against Bacterial Spot a tank mix with Maneb or Mancozeb used at the labeled rates controls a broad range of diseases
	NOTE Do not apply more than 90.1 quarts of Copper Count N (17.4 lbs of metallic copper) to Tomatoes (Processing) per acre per year		
TOMATOES (Fresh Market)	Bacterial Speck Bacterial Spot Early Blight Late Blight	1/3 qts/A (0.29 – 0.58 lbs metallic copper/A)	Make first application upon emergence of seedlings or immediately after transplanting and repeat at 7-10 day intervals. Do not apply at less than 3 day intervals. Complete coverage is essential for disease control. NOTE While the labeled rate is particularly effective against Bacterial Spot a tank mix with Maneb or Mancozeb used at the labeled rates controls a broad range of diseases
	NOTE Do not apply more than 41.4 quarts of Copper Count N (8 lbs of metallic copper) to Tomatoes (Fresh Market) per acre per year		
WHEAT OATS BARLEY	Helminthosporium Spot Blotch Septoria Leaf Blotch	1/2 qts/A (0.29 – 0.48 lbs metallic copper/A)	Make first application at early heading and follow with a second spray 10 days later. Use the higher rate when conditions favor disease
	Head Scab Bacterial Wilt	2 qts/A (0.48 lbs metallic copper/A)	Apply when disease appears and repeat as necessary at 10 day intervals
	NOTE Do not apply more than 5.4 quarts of Copper Count N (1.06 lbs of metallic copper) to Wheat/Oats/Barley per acre per year		

MISCELLANEOUS

13/29

CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
ATEMOYA	Anthracnose	3 qts/A (0.58 lbs metallic copper/A)	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.
	NOTE: Do not apply more than 65.2 quarts of Copper Count N (12.6 lbs of metallic copper) to Atemoya per acre per year.		
CARAMBOLA	Anthracnose	3 qts/A (0.58 lbs metallic copper/A)	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.
	NOTE: Do not apply more than 54.4 quarts of Copper Count N (10.5 lbs metallic copper) to Carambola per acre per year.		
CHIVES	Downy Mildew	2 qts/A (0.48 lbs metallic copper/A)	Begin applications when plants are first established in the field. Repeat applications at 7 – 10 day intervals as dictated by disease conditions. If disease pressure is high, use the shorter spray interval.
	NOTE: Do not apply more than 13.7 quarts of Copper Count N (2.65 lbs of metallic copper) to Chives per acre per year.		
DILL	Phoma Leaf Spot Rhizoctonia Foliage Blight	3 qts/A (0.58 lbs metallic copper/A)	Begin applications when plants are first established in the field and repeat at 7 – 10 day intervals depending upon disease severity and environmental conditions. If disease pressure is high, use the shorter spray interval.
	NOTE: Do not apply more than 20.4 quarts of Copper Count N (3.95 lbs of metallic copper) to Dill per acre per year.		
DOUGLAS FIR	Rhabdocline Needlecast	2 qts/A (0.48 lbs metallic copper/A)	Begin applications at bud break and repeat at 3 – 4 week intervals. Apply in a tank mix with another registered pesticide if moderate to severe disease pressure is present.
	NOTE: Do not apply more than 103.6 quarts of Copper Count N (20.0 lbs of metallic copper) to Douglas Fir per acre per year.		
GINSENG	Alternaria Leaf and Stem Blight	3 / qts/A (0.68 lbs metallic copper/A)	Use as a tank mix with 2 pounds Rovral 50W in 100 gallons of water. Begin COPPER COUNT N/Rovral applications as soon as plants have emerged in spring. Applications should be repeated every 7 days until plants become dormant in fall. If scheduled application is to be before a rain shower, apply fungicides at least 8 hours before the rain, giving the fungicides time to dry on the plants. Use of a spreader/sticker is advised. NOTE: Alternaria leaf and stem blight is most severe in humid conditions such as those found in the dense canopies of 2, 3, and 4 year old ginseng. It is very important that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.
	NOTE: Do not apply more than 27.2 quarts of Copper Count N (5.25 lbs of metallic copper) to Ginseng per acre per year.		
GUAVA	Anthracnose Red Algae	3 qts/A (0.58 lbs metallic copper/A)	Make initial application just before flowering and repeat on a 7 day schedule until just before harvest. Apply in sufficient water for thorough coverage.
	NOTE: Do not apply more than 25.4 quarts of Copper Count N (4.92 lbs of metallic copper) to Guava per acre per year.		
LITCHI	Anthracnose	3 qts/A (0.58 lbs metallic copper/A)	Make initial application just before flowering and repeat on a 7 day schedule until just before harvest. Apply in sufficient water for thorough coverage.
	NOTE: Do not apply more than 25.4 quarts of Copper Count N (4.92 lbs of metallic copper) to Litchi per acre per year.		
LIVE OAK	Ball Moss	6 qts/A (1.16 lbs metallic copper/A)	Apply in the spring when ball moss is actively growing using 1.5 gallons of spray per foot of tree height. Make sure to wet ball moss tufts thoroughly. A second application may be required after 12 months. NOTE: COPPER COUNT N may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonry surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.
	NOTE: Do not apply more than 103.6 quarts of Copper Count N (20.0 lbs of metallic copper) to Live Oak per acre per year.		
MACADAMIA	Anthracnose	6 qts/A (1.16 lbs metallic copper/A)	Initiate sprays at first sign of flowering and repeat on a 7 day schedule until just before harvest. Apply in sufficient water for thorough coverage.
	Phytophthora Blight Raceme Blight	4 – 6 qts/A (0.77 – 1.16 lbs metallic copper/A)	Apply during raceme development and bloom periods. Do not apply at less than 7 days intervals. Apply in sufficient water for thorough coverage.
	NOTE: Do not apply more than 48.9 quarts of Copper Count N (9.44 lbs of metallic copper) to Macadamia per acre per year.		
MAMEY SAPOTE	Anthracnose Algal Leaf Spot	6 – 8 qts/A (1.16 – 1.54 lbs metallic copper/A)	Apply when conditions favor disease. Repeat on 14 – 30 day schedule as disease severity and environmental conditions dictate.
	NOTE: Do not apply more than 43.5 quarts of Copper Count N (8.4 lbs of metallic copper) to Mamey Sapote per acre per year.		
PAPAYA	Anthracnose	4 – 10 qts/A (0.77 – 1.93 lbs metallic copper/A)	Begin applications before disease appears and repeat on at 14 day intervals. Apply at no less than 7 day intervals during periods of heavy rain. Use higher rates when conditions favor disease.
	NOTE: Do not apply more than 109.8 quarts of Copper Count N (21.2 lbs of metallic copper) to Papaya per acre per year.		
PARSLEY	Bacterial Blight	3 qts/A (0.58 lbs metallic copper/A)	Begin applications when plants are first established in the field and repeat at 10 day intervals.
	NOTE: Do not apply more than 10.3 quarts of Copper Count N (2.0 lbs of metallic copper) Parsley per acre per year.		

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CROP	DISEASE CONTROLLED	RATE	INSTRUCTIONS
PASSION FRUIT	Anthracnose	6 qts/A (1 16 lbs metallic copper/A)	Make initial application just before flowering and repeat at no less than 7 day intervals until just before harvest Apply in sufficient water for thorough coverage
	NOTE Do not apply more than 48 9 quarts of Copper Count N (9 44 lbs of metallic copper) to Passion Fruit per acre per year		
SUGAR APPLE (Annona)	Anthracnose	8 – 12 qts/A (1 54 – 2 32 lbs metallic copper/A)	Make initial application just before flowering and repeat on a 7 day schedule until just before harvest Apply in sufficient water for thorough coverage
	NOTE Do not apply more than 65 2 quarts of Copper Count N (12 6 lbs of metallic copper) to Sugar Apple per acre per year		
SYCAMORE	Anthracnose	2 – 3 qts/A (0 39 – 0 58 lbs metallic copper/A)	Apply as a full coverage spray Apply in 100 gallons of water or sufficient volume for thorough coverage Make first application at bud crack and second application at 7 – 10 days later at 10 / leaf expansion
	NOTE Do not apply more than 103 6 quarts of Copper Count N (20 0 lbs of metallic copper) to Sycamore per acre per year		

TURFGRASS

To control algae in turfgrass apply 10 fl oz (0 06 lbs metallic copper) of COPPER COUNT N per 1 000 square feet in 5 gallons of water COPPER COUNT N may be used alone or in combination with other registered fungicides as a maintenance spray If additional applications are necessary apply at no less than 10 day intervals Observe all precautions and limitations on the label of each product used in tank mixes Do not apply more than 80 0 fl oz of Copper Count N (0 48 lbs metallic copper) per 1 000 sq ft per year

NOTE Phytotoxicity may occur depending upon varietal differences Apply the directed rate to a small area and observe for 10 days for signs of injury If phytotoxicity occurs discontinue use Do not apply in a spray solution with a pH of less than 6 5

GREENHOUSE AND SHADEHOUSE CROPS

Notice to User COPPER COUNT N may be used in greenhouses and shade houses to control diseases on some crops which appear on this label The grower should bear in mind that the sensitivity of crops grown in greenhouses and shadehouses differ greatly from crops grown under field conditions Neither the manufacturer nor the seller has determined whether or not COPPER COUNT N can be used safely on all greenhouse and shadehouse grown crops The user should determine if COPPER COUNT N can be used safely prior to commercial use In a small area apply the directed rates to the plants in question i e foliage fruit etc and observe for 7 – 10 days for symptoms of phytotoxicity prior to commercial use

CROP	DISEASE CONTROLLED	RATE/1 000 SQ FT	INSTRUCTIONS
EGGPLANT	Alternaria Blight Anthracnose Phomopsis	4 Tbsp (0 012 lbs metallic copper/1 000 Sq Ft)	Begin applications prior to development of disease symptoms Repeat sprays at no less than 7 day intervals
	NOTE Do not apply more than 60 Tbsp of Copper Count N (0 18 lbs metallic copper) to Eggplant per 1 000 sq ft per year		
PEPPER	Bacterial Spot	4 – 6 Tbsp (0 012 – 0 018 lbs metallic copper/1 000 Sq Ft)	Begin applications when conditions first favor disease development and repeat at 5–10 day intervals as needed depending on disease severity Use higher rate for severe disease
	NOTE Do not apply more than 90 Tbsp of Copper Count N (0 27 lbs metallic copper) to Pepper per 1 000 sq ft per year		
TOMATO (Processing)	Early and Late Blight	4 Tbsp (0 012 lbs metallic copper/1 000 Sq Ft)	Begin when disease first threatens and repeat at 7–10 day intervals as needed depending on disease severity
	Bacterial Speck	4 Tbsp (0 012 lbs metallic copper/1 000 Sq Ft)	Begin when disease first threatens and repeat at 7 – 10 day intervals as needed depending on disease severity
	Anthracnose Bacterial Spot Gray Leaf Mold Septoria Leaf Spot	4 Tbsp (0 012 lbs metallic copper/1 000 Sq Ft)	Begin applications when disease first threatens and repeat at 7 – 10 day intervals as needed depending on disease severity
	NOTE Do not apply more than 133 3 Tbsp of Copper Count N (0 4 lbs metallic copper) to Tomato (Processing) per 1 000 sq ft per year		
TOMATO (Fresh Market)	Early and Late Blight	4 – 6 Tbsp (0 012 0 018 lbs metallic copper/1 000 Sq Ft)	Begin when disease first threatens and repeat at 7–10 day intervals as needed depending on disease severity
	Bacterial Speck	4 Tbsp (0 012 lbs metallic copper/1 000 Sq Ft)	Begin when disease first threatens and repeat at 7 – 10 day intervals as needed depending on disease severity
	Anthracnose Bacterial Spot Gray Leaf Mold	4 – 8 Tbsp (0 012 – 0 024 lbs metallic copper/1 000 Sq Ft)	Begin applications when disease first threatens and repeat at 7 – 10 day intervals as needed depending on disease severity
	NOTE Do not apply more than 60 Tbsp of Copper Count N (0 18 lbs metallic copper) to Tomato (Fresh Market) per 1 000 sq ft per year		
CITRUS (Non bearing Nursery)	Brown Rot Citrus Canker (Suppression only) Greasy Spot Melanose Pink Pitting Scab	6 Tbsp (0 018 lbs metallic copper/1 000 Sq Ft)	Begin applications when disease threatens Repeat at 30 day intervals as needed depending on disease severity
	NOTE Do not apply more than 96 7 Tbsp of Copper Count N (0 29 lbs metallic copper) to Citrus (Non bearing Nursery) per 1 000 sq ft per year		

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ORNAMENTALS

Notice to User Plant sensitivities to COPPER COUNT N have been found to be acceptable in specific genera and species listed on this label however it is impossible to know sensitivities under all conditions and phytotoxicity may occur Due to the large number of species and varieties of ornamentals and nursery plants it is impossible to test every one for sensitivity to COPPER COUNT N Neither the manufacturer nor seller recommends use upon species not listed on the label nor has it been determined that COPPER COUNT N can be safely used on ornamental or nursery plants not listed on this label The user should determine if COPPER COUNT N can be used safely prior to commercial use

Use COPPER COUNT N on container bench or bed grown ornamentals in greenhouses shadehouses or outdoor nurseries for professional use on ornamentals grown in indoor and outdoor landscaping and for control of bacterial and fungal diseases of foliage flowers and stems

Apply as a thorough coverage spray using 1 quart (0.193 lbs metallic copper) COPPER COUNT N per 100 gallons of water per acre Begin application at first sign of disease and repeat at 7 – 14 day intervals as needed use shorter interval during periods of frequent rains or when severe disease conditions persist Do not apply more than 103 quarts of Copper Count N (20.0 lbs metallic copper) per acre per year

COPPER COUNT N may be used alone or in combination with other registered fungicides as a maintenance spray Observe all precautions and limitations on the label of each product used in tank mixes

NOTE Do not tank mix COPPER COUNT N with Alette fungicide unless appropriate precautions have been taken to buffer the spray solution Severe phytotoxicity may result if adequate precautions are not taken

CROP	LATIN NAME	DISEASE
Althea (Rose of Sharon)	Hibiscus syriacus	Bacterial leaf spot
Aralia	Dizygotheca elegantissima	Alternaria Cercospora leaf spot Xanthomonas leaf spot
Arborvitae	Thuja spp	Alternaria twig blight Cercospora leaf blight
Azalea (1)	Rhododendron spp	Botrytis blight Cercospora leaf spot Phytophthora dieback Powdery mildew
Begonia	Begonia semperflorens	Bacterial leaf spot (Erwinia sp Pseudomonas sp Xanthomonas sp)
Bougainvillea	Bougainvillea spectabilis	Anthracoze Bacterial leaf spot
Bulbs (Tulip Gladiolus)	Miscellaneous	Anthracoze Botrytis blight
Camellia	Camellia japonica C. sasanqua	Anthracoze Bacterial leaf spot
Camphor tree	Cinnamomum camphora	Pseudomonas leaf spot
Canna	Canna spp	Pseudomonas leaf spot
Carnation (1)	Dianthus spp	Alternaria blight Botrytis blight Pseudomonas leaf spot
Chinese tallow tree	Sapium sebiferum	Bacterial leaf spot (Pseudomonas sp Xanthomonas sp)
Chrysanthemum (1)	Chrysanthemum morifolium	Botrytis blight Septoria leaf spot
Cotoneaster	Cotoneaster spp	Botrytis blight
Dahlia	Dahlia pinnata	Alternaria leaf spot Botrytis gray mold Cercospora leaf spot
Date Palm	Phoenix canariensis	Pestalotia leaf spot
Dianthus	Dianthus spp	Bacterial soft rot Bacterial spot
Dogwood	Cornus florida	Anthracoze
Dusty Miller	Senecio cineraria	Bacterial leaf spot (Pseudomonas cichorii)
Easter lily (1)	Lilium longiflorum	Botrytis blight
Echinacea	Echinacea spp	Bacterial leaf spot (Pseudomonas cichorii)
Elm Drake	Ulmus parvifolia	Xanthomonas leaf spot
Euonymus	Euonymus spp	Anthracoze Botrytis blight
European fan palm	Chamaerops humilis	Pestalotia leaf spot
Gardenia	Gardenia jasminoides	Alternaria leaf spot Botrytis bud rot Cercospora leaf spot
Geranium	Pelargonium spp	Alternaria leaf spot Botrytis gray mold Cercospora leaf spot
Gladiolus	Gladiolus spp	Alternaria leaf spot Bacterial leaf blight Botrytis gray mold
Goldenrain tree	Koelreutena paniculata	Bacterial leaf spot
Hibiscus	Hibiscus rosa sinensis	Bacterial leaf spot
Holly fern	Cyrtomium falcatum	Pseudomonas leaf spot
Impatiens	Impatiens sallerana	Bacterial leaf spot
India hawthorn (1)	Rhaphiolepis indica	Anthracoze Entomosporium leaf spot
Ivy (English Algerian) (1)	Hedera helix H. canariensis	Xanthomonas leaf spot
Ixora	Ixora coccinea	Xanthomonas leaf spot
Juniper (Eastern red cedar)	Juniperus virginiana	Anthracoze
Lantana	Lantana camara	Bacterial leaf spot
Lilac	Syringa spp	Cercospora leaf spot
Loblolly bay	Gordonia lasianthus	Anthracoze
Loquat	Enobotrya japonica	Colletotrichum sp Entomosporium maculata
Magnolia (Saucer)	Magnolia soulangiana	Bacterial leaf spot
Magnolia (Southern)	Magnolia grandiflora	Algal leaf spot Anthracoze Bacterial leaf spot
Magnolia (Sweet bay)	Magnolia virginiana	Anthracoze

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CROP	LATIN NAME	DISEASE
Mandevillas	Mandevilla spp	Anthracoze
Mangold	Tagetes spp	Alternaria leaf spot Botrytis leaf and flower rot Cercospora leaf spot
Mulberry weeping	Morus alba	Bacterial leaf spot
Oak laurel	Quercus laurifolia	Algal leaf spot (Cephaleuros virescens)
Oleander	Nerium oleander	Bacterial leaf spot Fungal leaf spot
Pachysandra	Pachysandra procumbens	Volutella leaf blight
Pansy	Viola spp	Downy mildew
Pear (Flowering)	Pyrus calleryana	Fireblight Leaf spot
Pentas (Egyptian star)	Pentas spp	Bacterial leaf spot (Xanthomonas sp)
Peony	Paeonia spp	Botrytis blight
Periwinkle	Catharanthus roseus Vinca spp	Phomopsis stem blight
Philodendron	Philodendron selloum	Bacterial leaf spot
Phlox	Phlox spp	Alternaria leaf spot
Photinia	Photinia fraseri P. glabra	Anthracoze Entomosporium
Pistachio	Pistacia chinensis	Anthracoze
Plantain lily	Hosta spp	Bacterial leaf spot
Powder puff plant	Calliandra spp	Bacterial leaf spot
Pyracantha	Pyracantha spp	Fireblight scab
Queen palm	Syagrus romanzoffianum	Exosporium leaf spot Phytophthora bud rot
Rhododendron	Rhododendron spp	Alternaria flower spot
Rose ()	Rosa spp	Black spot Powdery mildew
Verbena	Verbena spp	Xanthomonas leaf spot
Viburnum	Viburnum odoratissimum V. suspensum	Anthracoze
Washingtonia palm	Washingtonia robusta	Pestalotia leaf spot
Weeping willow	Salix babylonica	Anthracoze
Yucca (Adam s needle)	Yucca spp	Cercospora leaf spot Septoria leaf spot

- () Discoloration of foliage and/or blooms has been noted on some varieties To prevent residues on commercial plants do not spray just before selling season
- () Apply COPPER COUNT N at 3 – 5 quarts (0.58 to 0.97 lbs metallic copper) in 20 – 100 gallons of water per acre
- () For India hawthorn use 2 – 4 quarts (0.39 to 0.773 lbs metallic copper) per 100 gallons or 2 – 4 level tablespoons per gallon

FROST INJURY PROTECTION

Bacterial Ice Nucleation Inhibitor – Application of COPPER COUNT N made to all crops listed on this label at rates indicated on this label just prior to anticipated frost conditions will sustain control of ice nucleating bacteria (*Pseudomonas syringae*, *Erwinia herbicola* and *Pseudomonas fluorescens*) and may therefore provide protection against light frost

Not recommended for those geographic areas where weather conditions favor severe frost

**INSTRUCTIONS FOR TREATMENT OF WOOD BASED COMPOSITES
(Not For Use In California)**

For treatment of composite wood products for protection from fungal decay mold and termite attack COPPER COUNT N can be applied to the fiber flakes chips particles or strands either as a solution concentrate or alternatively diluted with water The weight percent loading should range from 1.0 / mass/mass to 4.0 / mass/mass as copper ammonium acetate complex (0.26 to 1.1 / copper metal) The actual amount of copper ammonium acetate complex (or copper metal) to be retained in the finished wood based composite after treatment will vary depending on the species composition of the wood used to make the composite the desired distribution of COPPER COUNT N in the composite and the anticipated exposure conditions/end use of the composite wood product Consult manufacturer for recommendations on specific products and applications

Apply the treatment solution by spraying the composite wood component with a low pressure sprayer A moderately fine spray not an aerosol or fog generally provides the best coverage Apply in a commercial spray booth Treatment solution may also be applied by immersing the composite wood components Immersion systems should be fully contained to recycle any excess solution

STORAGE AND DISPOSAL

PESTICIDE STORAGE Do not contaminate water food or feed by storage or disposal

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

For liquid dilutable formulations in 5 gallon or larger nonrefillable containers

CONTAINER HANDLING Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container / 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 Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure 2 more times Offer for recycling or reconditioning if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

For liquid dilutable formulations in nonrefillable containers small enough to shake (i.e. with capacities equal to or less than 5 gallons)

CONTAINER HANDLING Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill

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the container / full with water and recap Shake or 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

IMPORTANT READ BEFORE USE

Read the entire Directions for Use Conditions Disclaimer of Warranties and Limitations of Liability before using this product If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following Conditions Disclaimer of Warranties and Limitations of Liability

CONDITIONS The Directions for Use of this product are believed to be adequate and must be followed carefully However it is impossible to eliminate all risks associated with the use of the product Crop injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use of application all of which are beyond the control of Mineral Research & Development Corp Division of Chemical Specialties Inc To the extent permitted by applicable law all such risks shall be assumed by the user or buyer

DISCLAIMER OF WARRANTIES To the extent consistent with applicable law Mineral Research & Development Corp Division of Chemical Specialties Inc makes no other warranties express or implied of merchantability or of fitness for a particular purpose or otherwise that extend beyond the statements made on this label No agent of Mineral Research & Development Corp Division of Chemical Specialties Inc is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein To the extent consistent with applicable law Mineral Research & Development Corp Division of Chemical Specialties Inc disclaims any liability whatsoever for special incidental or consequential damages resulting from the use or handling of this product

LIMITATIONS OF LIABILITY To the extent consistent with applicable law the exclusive remedy of the user or buyer for any and all losses injuries or damages resulting from the use or handling of this product whether in contract warranty tort negligence strict liability or otherwise shall not exceed the purchase price paid or at Mineral Research & Development Corp Division of Chemical Specialties Inc s election the replacement of product

BATCH NO _____

(Sublabel B – Residential Plant Fungicide Use)

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Copper-Count-N

COPPER FUNGICIDE GARDEN SPRAY

**Controls Many Diseases Attacking
Citrus, Fruits Nuts, Vegetables & Ornamentals**

FOR RESIDENTIAL USE ONLY

ACTIVE INGREDIENT	By Wt
Copper diammonia diacetate complex	27.15%
[Bis (acetate O) Diamminecopper]	
CAS No 13822 80 5	
OTHER INGREDIENTS	<u>72.85%</u>
TOTAL	100.00%

Metallic Copper Equivalent 8.0%
Contains 0.193 lbs Copper per quart or Contains 0.0965 lbs Copper per pint

EPA Reg No 10465 3

EPA Est No 10465 NC 1
48498 CA 1

NET CONTENTS 1 Pint and 1 Quart

Manufactured by / for
Mineral Research & Development Corp
Division of Chemical Specialties Inc
5910 Pharr Mill Road
Harrisburg NC 28075
(704) 454 4811

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 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 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Causes eye and skin irritation. Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wear protective eyewear (goggles, face shield or safety glasses), long-sleeved shirt and long pants, shoes and socks, and chemical resistant gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse. Do not use food utensils such as teaspoons or tablespoons for food purposes after use with pesticides.

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ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff To protect the environment do not allow pesticide to enter or run off into storm drains drainage ditches gutters or surface waters Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems

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 any person or pet either directly or through drift Only protected users may be in the area during application Do not enter or allow others to enter the treated area until sprays have dried

Shake well before using

INFORMATION

The control of diseases with fungicides is based on PREVENTION plant surfaces must be completely covered with the fungicide to successfully prevent infection Copper pesticides are considered preventative not curative of plant diseases Use the highest indicated rate per crop when disease incidence is high or expected to be depending on rainfall and temperature The lower rate is suitable for general preventive sprays under normal conditions Since weather conditions and disease incidence vary consult your Agricultural Extension Service for timing and initial application

PRODUCT INSTRUCTIONS

Seek advice on identifying specific disease problems and solutions from your local Agricultural Extension Agent or other knowledgeable persons

Partially fill the spray tank/container with water add the desired amount of COPPER COUNT N and continue filling the tank/container If applied with other products add COPPER COUNT N last Agitate the tank during mixing and application until tank is empty A plastic or metal stirring stick should provide adequate agitation Observe all cautions and limitations on labeling of all products used in mixtures Start with clean equipment Equipment should be flushed well with water after use

APPLICATION

Fruits and Nuts Mix specified rate in 1 gallon of water and apply 3 gallons of mixed solution to a small tree or bush 6 gallons of mixed solution to a medium size tree or 9 gallons of mixed solution to a large tree Thoroughly spray tree to point of runoff including upper and lower surfaces of foliage Do not overspray Do not mix more spray solution than needed

Vegetables Mix specified rate in 1 gallon of water and apply 2 gallons of mixed solution per 1 000 sq ft (1 gallon of mixed solution per 500 sq ft)

Miscellaneous For herbs Mix specified rate in 1 gallon of water and apply 2 gallons of mixed solution per 1 000 sq ft (1/2 gallon of mixed solution per 250 sq ft) For trees Mix specified rate in 1 gallon of water and apply 3 gallons of mixed solution to a small tree 6 gallons of mixed solution to a medium size tree or 9 gallons of mixed solution to a large tree Thoroughly spray tree to point of runoff including upper and lower surfaces of foliage Do not overspray Do not mix more spray solution than needed

NOTE This product may be reactive on metal and masonry surfaces such as galvanized roofing AVOID contact with metal surfaces Do not spray on cars houses lawn furniture etc

FRUITS AND NUTS

FRUITS AND NUTS	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
ALMONDS	Brown Rot	4 – 6 tsp	Apply at delayed dormant bud swell stage Dormant oil may be used If additional applications are needed apply at no less than 7 day intervals
	Shot Hole	4 – 6 tsp	Apply as a dormant spray at leaf fall to protect buds and shoots from infection during rainy periods Reapply every 3 to 4 weeks up to late bud swell Do not apply at less than 7 day intervals Do not apply after full bloom
	NOTE Do not apply more than 410 tsp of Copper Count N (0.41 lbs metallic copper) to Almonds per 1 000 sq ft per year		
APPLES	Anthraxnose	4 – 5 tsp	Apply as a dormant spray once to foliage after harvest
	Apple Scab (Black Spot) Bacterial Canker Blossom and Shoot Blast	4 – 6 tsp	Apply as a dormant spray once post harvest before fall rains
	Fire Blight	1/2 – 1 tsp	Apply at 10 / bloom and repeat at no less than 5 – 7 day intervals during the bloom period Do not use on copper sensitive varieties
		4 – 6 tsp	Apply once as a full cover spray between silver tip and green tip Do not apply when green tip reaches 1 / 2 inch as injuries may occur
NOTE Do not apply more than 370 tsp of Copper Count N (0.37 lbs metallic copper) to Apples per 1 000 sq ft per year			
APRICOTS	Brown Rot Blossom Blight Shot Hole	4 – 6 tsp	Apply as a dormant spray at leaf fall to protect buds and shoots from infection during rainy periods Reapply up to late bud swell at no less than 7 day intervals Do not apply after full bloom
	NOTE Do not apply more than 410 tsp of Copper Count N (0.41 lbs metallic copper) to Apricots per 1 000 sq ft per year		
AVOCADOS	Anthraxnose	4 tsp	Apply when the flower buds begin to swell and continue at monthly intervals until August
	NOTE Do not apply more than 430 tsp of Copper Count N (0.43 lbs metallic copper) to Avocados per 1 000 sq ft per year		

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FRUITS AND NUTS	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
BANANAS	Sigatoka	1 – 2 tsp	Apply every 3 – 4 weeks
	Black Pitting	2.5 fl oz	Mix in 1 gallon of water. Apply directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence. Do not apply at less than 7 day intervals.
	NOTE: Do not apply more than 7.16 fl oz of Copper Count N (430 tsp / 0.43 lbs metallic copper) to Bananas per 1,000 sq ft per year.		
BLUEBERRIES	Bacterial Canker	2 – 5 tsp	Apply before fall rains and again 4 weeks later.
	Cane Canker	2 – 5 tsp	Apply before fall rains and again 4 weeks later. In the spring during wet weather apply at 10-14 day intervals beginning at leaf emergence.
	NOTE: Do not apply more than 190 tsp of Copper Count N (0.19 lbs metallic copper) to Blueberries per 1,000 sq ft per year.		
CANE BERRIES	Anthracnose Leaf and Cane Spot Purple Blotch Yellow Rust	1 – 3 tsp	Apply when leaf buds open. Repeat when flower buds show white and continue at 10-14 day intervals. Do not apply at less than 7 day intervals.
	Anthracnose Bacterial Blight Leaf and Cane Spot Purple Blotch Yellow Rust	4 – 5 tsp	Apply in the fall after harvest.
	NOTE: Do not apply more than 230 tsp of Copper Count N (0.23 lbs metallic copper) to Caneberries per 1,000 sq ft per year.		
CHERRIES	Deadbud Coryneum Blight	2 fl oz	Apply as a dormant spray before heavy fall rains and again in late winter. Do not apply at less than 7 day intervals.
	Brown Rot Blossom Blight	4 – 6 tsp	Apply as a full cover spray at popcorn stage and at full bloom. If additional applications are needed, do not apply at less than 7 day intervals.
	NOTE: Do not apply more than 68.3 fl oz of Copper Count N (399.36 tsp / 0.41 lbs metallic copper) to Cherries per 1,000 sq ft per year.		
CITRUS	Greasy Spot Melanose Pink Pitting Scab	2 – 4 tsp	Apply as pre bloom and post bloom sprays. Do not apply at less than 7 day intervals.
	Brown Rot	1 – 3 tsp	Apply in the fall before or just after heavy rains. In areas of skirt sprays, apply to a height of at least 4 feet. (Skirt sprays are applications up to 4 ft high on the tree. The whole tree is not sprayed.) Do not apply at less than 7 day intervals.
	NOTE: Do not apply more than 290 tsp of Copper Count N (0.29 lbs metallic copper) to Citrus per 1,000 sq ft per year.		
CRANBERRIES	Fruit rot	2 – 6 tsp	Apply beginning in late bloom. One or two additional applications made at 10-14 day intervals may be required depending upon disease pressure. Follow the advice of the state agriculture extension service.
	NOTE: Do not apply more than 290 tsp of Copper Count N (0.29 lbs metallic copper) to Cranberries per 1,000 sq ft per year.		
CURRANTS GOOSEBERRIES	Anthracnose Leaf Spot (Cane Blight)	3 – 5 tsp	Make 3 applications starting after harvest, before bloom and after petal fall. Do not make applications at less than 10 day intervals.
	NOTE: Do not apply more than 230 tsp of Copper Count N (0.23 lbs metallic copper) to Currants/Gooseberries per 1,000 sq ft per year.		
FILBERTS (Permitted only in Washington State and Oregon)	Bacterial Blight	4 – 6 tsp	Apply after harvest. Under severe conditions, apply again when 1/3 of the leaves have dropped. Do not apply at less than 14 day intervals.
	Eastern Filbert Blight	4 – 6 tsp	Make initial application after harvest in October before heavy rains begin. The next application should be made in late February to early March, followed by another application 1 month later. Do not apply at less than 14 day intervals. Use higher rate when rainfall is heavy and disease pressure is high.
	NOTE: Do not apply more than 550 tsp of Copper Count N (0.55 lbs metallic copper) to Filberts per 1,000 sq ft per year.		
GRAPES	Anthracnose Black Rot Downy Mildew Powdery Mildew	1 tsp	Apply just before bud break when the shoots are 6 – 8 inches long, just after bloom and every 4 – 10 days throughout the season as needed. Foliar injury may occur on copper sensitive varieties.
	NOTE: Do not apply more than 460 tsp of Copper Count N (0.46 lbs metallic copper) to Grapes per 1,000 sq ft per year.		
KIWI	<i>Pseudomonas syringae</i> <i>Erwinia herbicola</i> <i>Pseudomonas fluorescens</i>	4 tsp	Apply in 4 gallons of water per 1,000 sq ft. Make applications on a monthly basis. A maximum of 3 applications may be made.
	NOTE: Do not apply more than 140 tsp of Copper Count N (0.14 lbs metallic copper) to Kiwi per 1,000 sq ft per year.		
LIMES	Greasy Spot	4 tsp	Apply in June and continue at monthly intervals through August.
	NOTE: Do not apply more than 290 tsp of Copper Count N (0.29 lbs metallic copper) to Limes per 1,000 sq ft per year.		
MANGOS (Not for use in California)	Anthracnose	4 tsp	Apply at 30 day intervals from the time the panicles are 2 inches in length until all fruits are set until August.
	NOTE: Do not apply more than 145 tsp of Copper Count N (0.145 lbs metallic copper) to Mangos per 1,000 sq ft per year.		
OLIVES	Peacock Spot	2 – 4 tsp	Make first application before winter rains fall. A second application should be made in early spring if disease is severe. If additional applications are necessary, apply at less than 30 day intervals.
	NOTE: Do not apply more than 145 tsp of Copper Count N (0.145 lbs metallic copper) to Olives per 1,000 sq ft per year.		

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FRUITS AND NUTS	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
PEACHES NECTARINES	Bacterial Spot	4 tsp	Apply as a dormant spray at no less than 7 day intervals
	Blossom Brown Rot Leaf Curl Shot Hole	4 – 6 tsp	Apply as a dormant and delayed dormant spray to protect buds and shoots from infection during rainy period Reapply up until late bud swell Do not apply at less than 7 day intervals Do not apply after full bloom
NOTE Do not apply more than 410 tsp of Copper Count N (0 41 lbs metallic copper) to Peaches/Nectarines per 1 000 sq ft per year			
PEARS QUINCE	Fire Blight	/ 1 tsp	Apply at 10/ bloom and repeat at no less than 5 7 day intervals throughout the bloom period Do not use on copper sensitive varieties
	Blossom Blast	4 – 6 tsp	Only one application permitted in fall late dormant season
NOTE Do not apply more than 370 tsp of Copper Count N (0 37 lbs metallic copper) to Pears/Quince per 1 000 sq ft per year			
PECANS	Shuck and Kernel Rot Zonate Leaf Spot	2 – 5 tsp	For suppression apply in sufficient water to ensure complete spray coverage at 2 – 4 week intervals (no less than 14 days) starting at kernel growth and continuing until shucks open Use the higher rate and shorter interval if frequent rainfall occurs
	NOTE Do not apply more than 190 tsp of Copper Count N (0 19 lbs metallic copper) to Pecans per 1 000 sq ft per year		
PISTACHIOS	Alternaria Late Blight	4 – 5 tsp	Apply at 50/ and full bloom followed by up to 3 applications at 30 day intervals
	Botrytis Blight Botryosphaera Panicle Shoot Blight Septoria Leaf Blight	4 – 5 tsp	Make initial application at bud swell and repeat on a 14 – 28 day schedule as dictated by disease conditions If disease conditions are severe use the higher rate and shorter interval
NOTE Do not apply more than 190 tsp of Copper Count N (0 19 lbs metallic copper) to Pistachios per 1 000 sq ft per year			
PLUMS PRUNES	Bacterial Blast Bacterial Canker Brown Rot Blossom Blight Coryneum Blight (Shot Hole)	4 – 6 tsp	Apply as a dormant spray at early green bud to full popcorn stages Do not apply at less than 7 day intervals
	NOTE Do not apply more than 410 tsp of Copper Count N (0 41 lbs metallic copper) to Plums/Prunes per 1 000 sq ft per year		
STRAWBERRIES	Leaf Spot Scorch	3 – 4 tsp	Apply at 7 – 10 day intervals from the time new growth starts until harvest
	NOTE Do not apply more than 190 tsp of Copper Count N (0 19 lbs metallic copper) to Strawberries per 1 000 sq ft per year		
WALNUTS	Walnut Blight	4 – 6 tsp	Make first application at early pre bloom Make second application at late pre bloom Make additional applications at no less than 7 day intervals if disease conditions persist
	NOTE Do not apply more than 580 tsp of Copper Count N (0 58 lbs metallic copper) to Walnuts per 1 000 sq ft per year		

Delayed Dormant – The period just before blossom buds break open

VEGETABLES

VEGETABLES	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
BEANS PEAS LENTILS (Succulent and Dry)	Bacterial Blight (Halo and Common)	2 – 6 tsp	Apply when plants are 3 – 5 inches high and before diseases appear Repeat at 7 – 10 day intervals Apply at 7 day intervals if disease pressure is severe
	NOTE Do not apply more than 30 tsp of Copper Count N (0 03 lbs metallic copper) to Beans/Peas/Lentils per 1 000 sq ft per year		
BEETS	Cercospora Leaf Spot	3 – 6 tsp	Apply when disease appears making 3 to 6 sprays at 10 14 day intervals Apply at 10 day intervals if disease pressure is severe
	NOTE Do not apply more than 110 tsp of Copper Count N (0 11 lbs metallic copper) to Beets per 1 000 sq ft per year		
CARROTS	Early Blight Late Blight	4 – 6 tsp	Apply when plants are 6 high Make 3 to 5 applications at 7 – 10 day intervals
	NOTE Do not apply more than 120 tsp of Copper Count N (0 12 lbs metallic copper) to Carrots per 1 000 sq ft per year		
CELERY	Bacterial Blight Early Blight Late Blight	4 – 6 tsp	Apply as soon as plants are established and repeat at 7 day intervals
	NOTE Do not apply more than 120 tsp of Copper Count N (0 12 lbs metallic copper) to Celery per 1 000 sq ft per year		
CORN (Pop Sweet)	Bacterial Rot Bacterial Stripe Bacterial Wilt Leaf Blight Stalk Rot	4 tsp	Apply when disease appears and repeat as necessary at 7 day intervals
	NOTE Do not apply more than 100 tsp of Copper Count N (0 1 lbs metallic copper) to Corn per 1 000 sq ft per year		
CRUCIFERS [Broccoli Brussels Sprouts Cabbage Cauliflower Greens (Collard Mustard and Turnip)]	Blackleaf Spot Black Rot	2 – 6 tsp	Apply when disease appears and repeat at 7 10 day intervals
	Downy Mildew	1 – 2 tsp	Apply when disease appears and repeat at 7 10 day intervals
NOTE Do not apply more than 60 tsp of Copper Count N (0 06 lbs metallic copper) to Crucifers per 1 000 sq ft per year			

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VEGETABLES	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
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	3 – 4 tsp	Apply when disease appears and repeat 7 10 day intervals
	NOTE Do not apply more than 115 2 tsp of Copper Count N (0 12 lbs metallic copper) to Cucurbits per 1 000 sq ft per year		
EGGPLANT	Alternaria Blight Anthracnose Phomopsis	4 tsp	Apply before disease appears and repeat at 7 10 day intervals
	NOTE Do not apply more than 180 tsp of Copper Count N (0 18 lbs metallic copper) to Eggplant per 1 000 sq ft per year		
ONIONS	Downy Mildew Purple Blotch	4 tsp	Apply when plants are 4 6 inches high and repeat at 7 10 day intervals
	NOTE Do not apply more than 140 tsp of Copper Count N (0 14 lbs metallic copper) to Onions per 1 000 sq ft per year		
PEANUTS	Cercospora Leaf Spot	3 – 6 tsp	Apply on first appearance of disease and repeat at no less than 10 14 day intervals
	Pod Rot Complex (Pythium myrtilinum Rhizoctonia solani and Sclerotium rolfsii)	2 5 fl oz	Apply at pegging in a 12 15 inch band over the row If repeat application is necessary do not apply at less than 7 day intervals
	NOTE Do not apply more than 18 3 fl oz of Copper Count N (110 tsp / 0 11 lbs metallic copper) to Peanuts per 1 000 sq ft per year		
PEPPERS	Bacterial Spot Cercospora Leaf Spot	3 6 tsp	Make first application upon emergence of seedlings or immediately after transplanting and repeat at 7–10 day intervals When disease is severe apply at 7 day intervals NOTE Disease control is critical during fruiting
	NOTE Do not apply more than 270 tsp of Copper Count N (0 27 lbs metallic copper) to Peppers per 1 000 sq ft per year		
POTATOES	Early Blight Late Blight	3 6 tsp	Apply on first appearance of disease and repeat at 7 10 day intervals
	NOTE Do not apply more than 570 tsp of Copper Count N (0 57 lbs metallic copper) to Potatoes per 1 000 sq ft per year		
SPINACH	Anthracnose Cercospora Leaf Spot Downy Mildew	3 tsp	Apply on first appearance of disease and repeat at 7 10 day intervals
	NOTE Do not apply more than 90 tsp of Copper Count N (0 09 lbs metallic copper) to Spinach per 1 000 sq ft per year		
TOMATOES	Bacterial Speck Bacterial Spot Early Blight Late Blight	3 – 5 tsp	Make first application upon emergence of seedlings or immediately after transplanting and repeat at 7–10 day intervals When disease pressure is severe apply at the shorter spray interval Complete coverage is essential for disease control NOTE While the labeled rate is particularly effective against Bacterial Spot a tank mix of Maneb or Mancozeb used at the labeled rates controls a broad range of diseases
	NOTE Do not apply more than 400 tsp of Copper Count N (0 4 lbs metallic copper) to Tomatoes per 1 000 sq ft per year		

MISCELLANEOUS

MISCELLANEOUS	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
CARAMBOLA	Anthracnose	6 tsp	Make initial application just before flowering and repeat on a weekly schedule until just before harvest
	Do not apply more than 240 tsp of Copper Count N (0 24 lbs metallic copper) to Carambola per 1 000 sq ft per year		
CHIVES	Downy Mildew	4 tsp	Begin applications when plants are first established Repeat applications every 7 10 days as dictated by disease conditions If disease pressure is high use the shorter spray interval
	NOTE Do not apply more than 60 tsp of Copper Count N (0 06 lbs metallic copper) to Chives per 1 000 sq ft per year		
DILL	Phoma Leaf Spot Rhizoctonia Foliage Blight	6 tsp	Begin applications when plants are first established and repeat at 7 10 day intervals depending upon disease severity and environmental conditions If disease pressure is high use the shorter spray interval
	NOTE Do not apply more than 90 tsp of Copper Count N (0 09 lbs metallic copper) to Dill per 1 000 sq ft per year		
DOUGLAS FIR	Rhabdocline Needlecast	4 tsp	Begin applications at bud break and repeat at 3 4 week intervals Apply in a tank mix with another registered pesticide if moderate to severe disease pressure is present
	NOTE Do not apply more than 460 tsp of Copper Count N (0 46 lbs metallic copper) to Douglas Fir per 1 000 sq ft per year		
GUAVA	Anthracnose Red Algae	6 tsp	Make initial application just before flowering and repeat on a weekly schedule until just before harvest
	NOTE Do not apply more than 110 tsp of Copper Count N (0 11 lbs metallic copper) to Guava per 1 000 sq ft per year		
LITCHI	Anthracnose	6 tsp	Make initial application just before flowering and repeat on a weekly schedule until just before harvest
	NOTE Do not apply more than 110 tsp of Copper Count N (0 11 lbs metallic copper) to Litchi per 1 000 sq ft per year		

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MISCELLANEOUS	DISEASE CONTROLLED	RATE / GALLON OF WATER	INSTRUCTIONS
LIVE OAK	Ball Moss	2 fl oz	Apply in the spring when ball moss is actively growing using 1.5 gallons of spray per foot of tree height. Make sure to wet ball moss tufts thoroughly. A second application may be required after 12 months. NOTE: COPPER COUNT N may be injurious to ornamentals grown under Live Oaks. This product may be reactive on metal and masonry surfaces such as galvanized roofing. Avoid contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.
	NOTE: Do not apply more than 76.7 fl oz of Copper Count N (0.46 lbs metallic copper) to Live Oak per 1,000 sq ft per year.		
MACADAMIA	Anthraxnose	3 tsp	Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest.
	Phytophthora Blight Raceme Blight	2 – 3 tsp	Apply during raceme development and bloom periods. Do not apply at less than 7 day intervals.
	NOTE: Do not apply more than 220 tsp of Copper Count N (0.22 lbs metallic copper) to Macadamia per 1,000 sq ft per year.		
PAPAYA	Anthraxnose	2.5 tsp	Begin applications before disease appears and repeat at 10-14 day intervals. Use higher rates when conditions favor disease.
	NOTE: Do not apply more than 490 tsp of Copper Count N (0.49 lbs metallic copper) to Papaya per 1,000 sq ft per year.		
PARSLEY	Bacterial Blight	6 tsp	Begin applications when plants are first established and repeat at 10 day intervals.
	NOTE: Do not apply more than 50 tsp of Copper Count N (0.05 lbs metallic copper) to Parsley per 1,000 sq ft per year.		
PASSION FRUIT	Anthraxnose	3 tsp	Make initial application just before flowering and repeat on a weekly schedule until just before harvest.
	NOTE: Do not apply more than 220 tsp of Copper Count N (0.22 lbs metallic copper) to Passion Fruit per 1,000 sq ft per year.		
SUGAR APPLE (Annona)	Anthraxnose	4 – 6 tsp	Make initial application just before flowering and repeat on a weekly schedule until just before harvest.
	NOTE: Do not apply more than 290 tsp of Copper Count N (0.29 lbs metallic copper) to Sugar Apple per 1,000 sq ft per year.		
SYCAMORE	Anthraxnose	4 – 6 tsp	Apply as a full coverage spray. Apply in 1 gallon of water or sufficient volume for thorough coverage. Make first application at bud crack and second application 7-10 days later at 10 / leaf expansion.
	NOTE: Do not apply more than 460 tsp of Copper Count N (0.46 lbs metallic copper) to Sycamore per 1,000 sq ft per year.		

TURFGRASS

To control algae in ornamental lawns and turf apply 10 fl oz (0.06 lbs metallic copper) of COPPER COUNT N in 5 gallons of water per 1,000 square feet. COPPER COUNT N may be used alone or in combination with other registered fungicides as a maintenance spray. Observe all precautions and limitations on the label of each product used in tank mixes. Do not apply more than 80.0 fl oz of Copper Count N (0.48 lbs metallic copper) per 1,000 sq ft per year. Do not apply at less than 10 day intervals.

NOTE: Phytotoxicity may occur depending upon varietal differences. Apply the directed rate to a small area and observe for 7 to 10 days for signs of injury. If phytotoxicity occurs, discontinue use. Do not apply in a spray solution with a pH of less than 6.5.

ORNAMENTALS

For use in container landscape and outdoor ornamental plantings. COPPER COUNT N can also be used on ornamentals in home greenhouses and shadehouses.

Notice to User: Plant sensitivities to COPPER COUNT N have been found to be acceptable in specific genera and species listed on this label, however it is impossible to know sensitivities under all conditions and phytotoxicity may occur. Due to the large numbers of species and varieties of ornamentals it is impossible to test every one for sensitivity to COPPER COUNT N. Neither the manufacturer nor seller recommends use upon species not listed on the label nor has it been determined that COPPER COUNT N can safely be used on ornamental plants not listed on this label. The user should determine if COPPER COUNT N can be used safely prior to use.

Apply as a thorough coverage spray using 2 teaspoons of COPPER COUNT N per gallon of water. Begin application at first sign of disease and repeat at 7-14 day intervals as needed. Use shorter interval during periods of frequent rains or when severe disease conditions persist. Do not apply more than 460 tsp of Copper Count N (0.46 lbs metallic copper) per 1,000 sq ft per year.

COPPER COUNT N may be used alone or in combination with other registered fungicides as a maintenance spray. Observe all precautions and limitations on the label of each product used in tank mixes. NOTE: Do not tank mix COPPER COUNT N with Aliette fungicide unless appropriate precautions have been taken to buffer the spray solution. Severe phytotoxicity may result if adequate precautions are not taken.

PLANT	DISEASE
Althea (Rose of Sharon)	Bacterial leaf spot
Aralia	Alternaria, Cercospora leaf spot, Xanthomonas leaf spot
Arborvitae	Alternaria twig blight, Cercospora leaf blight
Azalea ⁽¹⁾	Botrytis blight, Cercospora leaf spot, Phytophthora dieback, Powdery mildew
Begonia	Bacterial leaf spot (Erwinia sp, Pseudomonas sp, Xanthomonas sp)
Bougainvillea	Anthraxnose, Bacterial leaf spot
Bulbs (Tulip, Gladiolus)	Anthraxnose, Botrytis blight

(Continued on next page)

PLANT	DISEASE
Camellia	Anthrachnose Bacterial leaf spot
Camphor tree	Pseudomonas leaf spot
Canna	Pseudomonas leaf spot
Carnation ()	Alternaria blight Botrytis blight Pseudomonas leaf spot
Chinese tallow tree	Bacterial leaf spot (Pseudomonas sp Xanthomonas sp)
Chrysanthemum ()	Botrytis blight Septoria leaf spot
Cotoneaster	Botrytis blight
Dahlia	Alternaria leaf spot Botrytis gray mold Cercospora leaf spot
Date Palm	Pestalotia leaf spot
Dianthus	Bacterial soft rot Bacterial spot
Dogwood	Anthrachnose
Dusty Miller	Bacterial leaf spot (Pseudomonas cichorii)
Echinacea	Bacterial leaf spot (Pseudomonas chiconii)
Elm Drake	Xanthomonas leaf spot
Euonymus	Anthrachnose Botrytis blight
European fan palm	Pestalotia leaf spot
Gardenia	Alternaria leaf spot Botrytis bud rot Cercospora leaf spot
Geranium	Alternaria leaf spot Botrytis gray mold Cercospora leaf spot
Gladiolus	Alternaria leaf spot Bacterial leaf blight Botrytis gray mold
Goldenrain tree	Bacterial leaf spot
Hibiscus	Bacterial leaf spot
Holly fern	Pseudomonas leaf spot
Impatiens	Bacterial leaf spot
India hawthorn ()	Anthrachnose Entomosporium leaf spot
Ivy (English Algerian) ()	Xanthomonas leaf spot
Ixora	Xanthomonas leaf spot
Juniper (Eastern red cedar)	Anthrachnose
Lantana	Bacterial leaf spot
Lilac	Cercospora leaf spot
Loblolly bay	Anthrachnose
Loquat	Colletotrichum sp Entomosporium maculata
Magnolia (Saucer)	Bacterial leaf spot
Magnolia (Southern)	Algal leaf spot Anthrachnose Bacterial leaf spot
Magnolia (Sweet bay)	Anthrachnose
Mandevillas	Anthrachnose
Mangold	Alternaria leaf spot Botrytis leaf and flower rot Cercospora leaf spot
Mulberry weeping	Bacterial leaf spot
Oak laurel	Algal leaf spot (Cephaleuros virescens)
Oleander	Bacterial leaf spot Fungal leaf spot
Pachysandra	Volutella leaf blight
Pansy	Downy mildew
Pear (Flowering)	Fireblight Leaf spot
Pentas (Egyptian star)	Bacterial leaf spot (Xanthomonas sp)
Peony	Botrytis blight
Periwinkle	Phomopsis stem blight
Philodendron	Bacterial leaf spot
Phlox	Alternaria leaf spot
Photinia	Anthrachnose Entomosporium
Pistachio	Anthrachnose
Plantain lily	Bacterial leaf spot
Powder puff plant	Bacterial leaf spot
Pyracantha	Fireblight scab
Queen palm	Exosporium leaf spot Phytophthora bud rot
Rhododendron	Alternaria flower spot
Rose ()	Black spot Powdery mildew
Verbena	Xanthomonas leaf spot

(Continued on next page)

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PLANT	DISEASE
Viburnum	Anthracoze
Washingtonia palm	Pestalotia leaf spot
Weeping willow	Anthracoze
Yucca (Adam s needle)	Cercospora leaf spot Septoria leaf spot

() Discoloration of foliage and/or blooms has been noted on some varieties
 () For India Hawthorn use 2 – 4 level tablespoons per gallon

(3))

FROST INJURY PROTECTION

Bacterial Ice Nucleation Inhibitor – Application of COPPER COUNT N made to all plants listed on this label at rates indicated just prior to anticipated frost conditions will sustain control of ice nucleating bacteria (*Pseudomonas syringae* *Erwinia herbicola* and *Pseudomonas fluorescens*) and may therefore provide protection against light frost

Not recommended for those geographic areas where weather conditions favor severe frost

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Store in a secure locked area away from pets and out of the reach of children Store only in original container and place in a locked storage area

PESTICIDE DISPOSAL/CONTAINER HANDLING 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

IMPORTANT READ BEFORE USE

Read the entire Directions for Use Conditions Disclaimer of Warranties and Limitations of Liability before using this product If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following Conditions Disclaimer of Warranties and Limitations of Liability

CONDITIONS The Directions for Use of this product are believed to be adequate and must be followed carefully However it is impossible to eliminate all risks associated with the use of the product Crop injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use of application all of which are beyond the control of Mineral Research & Development Corp Division of Chemical Specialties Inc To the extent permitted by applicable law all such risks shall be assumed by the user or buyer

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BATCH NO _____

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(Sublabel C – Residential Plant Fungicide Use
with Hose-End Sprayer Application)

Copper-Count-N

COPPER FUNGICIDE GARDEN SPRAY

Controls Many Diseases Attacking
Citrus, Fruits & Nut Trees

Ready To Spray Bottle
Just Attach to Garden Hose & Spray

Delivers 4 Tsp of Product [Name] per Gallon of Water
Makes Up to 48 Gallons of Spray Solution

FOR RESIDENTIAL USE ONLY

ACTIVE INGREDIENT	By Wt
Copper diammonia diacetate complex	27.15%
[Bis (acetate O) Diamminocopper]	
CAS No 13822 80 5	
OTHER INGREDIENTS	<u>72.85%</u>
TOTAL	100.00%

Metallic Copper Equivalent 8.0 %
Contains 0.193 Lbs Copper per quart

EPA Reg No 10465 3

EPA Est No 10465 NC 1
48498 CA 1

NET CONTENTS 1 Quart (32 FL OZ)

Manufactured by / for
Mineral Research & Development Corp
Division of Chemical Specialties Inc
5910 Pharr Mill Road
Harrisburg NC 28075
(704) 454 4811

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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 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 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Pesticide Information Center at 1 800 858 7378 for emergency medical treatment information.

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

CAUTION Causes skin and eye irritation. Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wear protective eyewear (goggles, face shield or safety glasses), long sleeved shirt and long pants, shoes and socks and chemical resistant gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

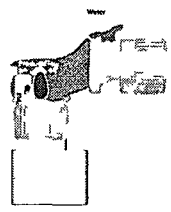
This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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 adults, children, or pets, either directly or through drift. Do not allow adults, children, or pets to enter treated area until sprays have dried.
The control of fungal disease is based on prevention. Copper pesticides are considered preventative, not curative of plant diseases. Plant surfaces must be completely covered with fungicide to successfully prevent infection.
Seek advice on identifying specific disease problems and solutions from your local Agricultural Extension Agent or other knowledgeable persons.

INSTRUCTIONS

- Shake well before using.
- APPLICATION** Thoroughly spray tree or bush to the point of runoff, including upper and lower surfaces of any foliage. Do not overspray. Do not apply at less than 7 day intervals.
- NOTE** This product may be reactive on metal and masonry surfaces such as galvanized roofing. AVOID contact with metal surfaces. Do not spray on cars, houses, lawn furniture, etc.
- HOW TO USE THIS SPRAYER** Shake Container Well Before Getting Started
- 1 Before you start, the blue top water flow valve should be in the OFF position and the red product flow valve should be in the up OFF position.
- 2 Shake container well and attach it to your garden hose.
- 3 Turn on the water from the faucet.
- 4 To apply, remove side pin (labeled PULL OUT) and rotate red product flow valve to ON, then while holding sprayer at waist level and pointing in a direction away from face and body, push blue water flow valve forward to activate water.
- NOTE** Copper Count N is a dark blue liquid. When the spray turns clear it is time to change to a new bottle of product.
- 5 When you are finished spraying or if you have to stop spraying at any time, press blue water flow valve with thumb to the rear to shut off water and return side red valve to the upright OFF position and replace side pin.
- 6 Turn off the water at the faucet.
- 7 Remove the container from the garden hose, then rinse thoroughly and store according to storage instructions.



FRUITS AND NUTS

FRUITS AND NUTS	DISEASE CONTROLLED	INSTRUCTIONS
ALMONDS	Brown Rot	Apply at delayed dormant bud swell stage
	Shot Hole	Apply as a dormant spray at leaf fall to protect buds and shoots from infection during rainy periods. Reapply every 3 to 4 weeks up until late bud swell (the period in Spring before buds begin to open). Do not apply after full bloom.
APPLES	Apple Scab (Black Spot) Bacterial Canker Blossom and Shoot Blast	Apply post harvest before fall rains

(Continued on next page)

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FRUITS AND NUTS	DISEASE CONTROLLED	INSTRUCTIONS
APRICOTS	Brown Rot Blossom Blight	Apply when buds show red color until brown bud jackets have fallen
	Shot Hole	Apply in late fall or early winter before winter rains or snow Repeat in late winter or early spring before buds break Do not apply after full bloom
AVOCADOS	Anthraxnose	Begin application when the flower buds begin to swell and continue at monthly intervals until August
BLUEBERRIES	Bacterial Canker	Apply before fall rains and again 4 weeks later
	Cane Canker	Apply before fall rains and again 4 weeks later In the spring during wet weather apply at 10 14 day intervals beginning at leaf emergence
CANE BERRIES	Anthraxnose Bacterial Blight Leaf and Cane Spot Purple Blotch Yellow Rust	Apply in the fall after harvest
CHERRIES	Brown Rot Blossom Blight	Apply as a full cover spray at popcorn stage and at full bloom
CITRUS	Greasy Spot Melanose Pink Pitting Scab	Apply as pre bloom and post bloom sprays
CURRENTS GOOSEBERRIES	Anthraxnose Leaf Spot (Cane Blight)	Make 3 applications starting after harvest before bloom and after petal fall
LIMES	Greasy Spot	Apply in June and continue at monthly intervals through August
MANGOS (Not for use in California)	Anthraxnose	Apply at 30 day intervals from the time the flowers are 2 inches in length until all fruits are set
OLIVES	Peacock Spot	Make first application before winter rains fall A second application should be made in early spring if disease is severe
PEACHES NECTARINES	Bacterial Spot	Apply as a dormant spray
	Blossom Brown Rot	Apply as a dormant or delayed dormant spray Do not apply at or after full bloom
	Leaf Curl Shot Hole	Apply at leaf fall to protect buds and shoots from infection during rainy periods Reapply up until late bud swell Do not apply after full bloom
PEARS	Blossom Blast	Apply as a dormant spray Apply only at bud break to control primary infection
PECANS	Shuck and Kernel Rot Zonate Leaf Spot	For suppression apply at 2 - 4 week intervals starting at kernel growth and continuing until shucks open Use shorter interval if frequent rainfall occurs
PISTACHIOS	Alternaria Late Blight	Apply at 50% and full bloom followed by up to 3 applications at 30 day intervals
	Botrytis Blight Botryosphaeria Panicle Shoot Blight Septoria Leaf Blight	Make initial application at bud swell and repeat on a 14 - 28 day schedule as dictated by disease conditions If disease conditions are severe use the higher rate and shorter spray interval
PLUMS PRUNES	Bacterial Blast Bacterial Cancer Shot Hole	Apply as a dormant spray and at early green bud to full popcorn stages
WALNUTS	Walnut Blight	Make first application at early pre bloom Make second application at late pre bloom Make additional applications if disease conditions persist at 7 day intervals

Delayed Dormant -- The period just before blossom buds break open

STORAGE AND DISPOSAL

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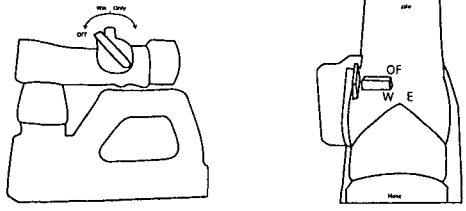
BATCH NO _____

OPTIONAL HOSE END SPRAYER DIRECTIONS

How To Use This Sprayer Shake container well before getting started

The sprayer attached to the container is ready to use Simply attach to your garden hose and follow these instructions

- 1 Connect sprayer to hose
- 2 Turn on water
- 3 To begin spraying point nozzle in the direction you want to spray
- 4 Bend plastic tab back and turn knob to ON position
- 5 Spray evenly to area to be treated
- 6 To stop spraying turn knob to OFF position
- 7 Turn off water
- 8 Relieve water pressure by bending plastic tab back and turning knob to ON position until water slows to a drip Then turn knob back to OFF position
- 9 Disconnect sprayer from hose



OPTIONAL HOSE END SPRAYER DIRECTIONS

How To Use This Sprayer Shake container well before getting started

CONNECT

- 1 Shake well before using
- 2 Connect sprayer to hose
- 3 Turn on water

SPRAY

- 1 Before spraying point nozzle in the direction you want to spray
- 2 [Bend small plastic tab back and] Turn knob [clockwise] to ON position
- 3 Begin spraying

FINISH

- 1 To stop spraying [turn knob counter clockwise] to OFF position
- 2 Turn off water
- 3 Relieve water pressure by [bending plastic tab back and] turning knob to ON position until water slows to a drip Then turn knob back to OFF position
- 4 Disconnect sprayer from hose

[Diagram of Hose End Sprayer to be inserted]