

4-58

2/1/2012

1 of 15



**U. S. ENVIRONMENTAL PROTECTION
AGENCY**

Office of Chemical Safety and
Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg.
Number:

4-58

Date of
Issuance:

FEB - 1 2012

NOTICE OF PESTICIDE:

XX Registration

XX Reregistration

(under FIFRA, as amended)

Terms of Issuance:

Unconditional

Name of Pesticide

Product: Bonide Copper
Spray or Dust

**Bonide Products, Inc.
C/o Registrations by Design, Inc.
118 ½ East Main Street, Suite 1
Salem, VA 24153-3805**

Attn. Rebecca Horton

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

EPA received a label amendment request submitted by email on January 25, 2012. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision for Copper Sulfate have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

Signature of Approving Official:

Tony Kish
Product Manager (Team 21)
Fungicide Branch
Registration Division

Date:

FEB - 1 2012

2 of 15

Page 2
Notice of Reregistration (continued)
EPA Reg. No. 4-58

If you have any questions or comments regarding this letter, please contact Rose Kearns at (703) 305-5611 or via e-mail at kearns.rosemary@epa.gov.



BONIDE® COPPER SPRAY OR DUST

[Additional Brand Name: Bonide® Copper Fungicide; Bonide Copper Fungicide Spray or Dust Ready to Use]

Optional Marketing Statements:

Bordeaux Modern Replacement

Ready-to-Use

Controls Diseases on Potatoes, Tomatoes, Fruits, Flowering Shrubs and Shade Trees



ACTIVE INGREDIENT:

Basic Copper Sulfate* (CAS #1344-73-6) 7.00%

OTHER INGREDIENTS: 93.00%

TOTAL 100.00%

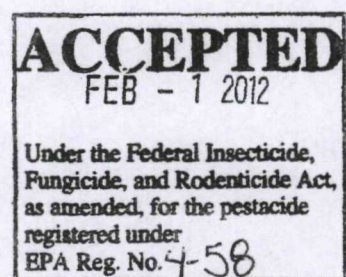
*Metallic copper equivalent: 3.93%

KEEP OUT OF REACH OF CHILDREN

WARNING

See side/back/other panel(s) for additional Precautionary Statements and First Aid.

NET WEIGHT: _____



FIRST AID

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.

If in Eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> • Call 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.
If on Skin or Clothing:	<ul style="list-style-type: none"> • 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 Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN.: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust. Wear protective eyewear (goggles, faceshield, safety glasses), long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material; selection Category A.

USER SAFETY RECOMMENDATIONS: Users should wash hands before eating drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing, protective eyewear or gloves immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove clothing, protective eyewear and gloves 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. 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.

DIRECTIONS FOR USE

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

General Precautions and Restrictions: 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 the treated area until sprays have dried or dusts have settled.

This product is intended for small garden use only.

Use lower rates when plants are small, and the higher rates when plants are well developed, during heavy rain seasons, or when disease conditions are severe.

STORAGE AND DISPOSAL

Pesticide Storage: Store and transport in an upright position. Store in a cool dry area inaccessible to children or pets.

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

Container Disposal: *If empty* – Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

FRUITS AND NUTS

As a Dust: Control of disease depends upon thorough and complete application (a thin, uniform film) to both tops and undersides of leaves. Small canisters may be used as a duster by partially crushing and rapidly squeezing the sides in upright position, or use a good pressure duster. Application when wind is very light or absent, usually early morning or evening, will prevent drift and loss of product to adjacent areas.

As a Spray: (Using hand or tank sprayers) – Consult spray table below. Add proper amount of powder to small amount of water, strain, add remainder of water and spray – agitate sprayer to keep nozzle from plugging. 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 upper and lower surfaces of foliage to the point of runoff. Do not overspray.

Crop (Site)	Diseases	When to Apply	Amount*
Apples (dormant)	Anthraco-nose, European Canker, Pseudomonas Syringae	Apply after harvest, before fall rains.	1¼ - 4¾ LB. 20-75¾ oz. Do not exceed one [1] application of product per season.
Apples (bloom & growing season)	Fireblight	Make initial application at silver-tip. Repeat every 5-7 days to green-tip. Do not apply after green-tip reaches ½ inch, as phytotoxicity may occur.	2 - 4¾ oz. Do not apply more than 9.6 LB of product (5.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Anthraco-nose, Bitter rot, Black pox, Black rot, Brooks spot, Flyspeck, Powdery mildew, Sooty blotch, Summer scab, White Rot	Do not apply prior to 4 th cover spray. Make only 2 applications in rotation with other registered fungicides. Use on weak or stressed trees can increase potential for leaf spotting or fruit russetting.	
Almonds (dormant)	Bacterial Blast (Pseudomonas), Bacterial Canker, Coryneum blight (Shot hole)	Make first application after harvest before fall rains, and a second application at late dormant (minimum 7 day interval).	1¼ - 4¾ LB Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Apricots (dormant)	Coryneum blight (Shot hole)	Apply after harvest. Reapply every 7-10 days, as needed, throughout the dormant season.	1¼ - 4¾ LB Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Apricots (bloom & growing season)	Coryneum blight (Shot hole), Blossom brown rot	Reapply every 5 days, as needed throughout bloom & growing season. Apply at popcorn to full bloom as a full cover spray. To avoid spray injury, do not apply after bloom.	4½ - 13 oz. Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Avocados	Anthraco-nose, Blotch, Scab	Apply when bloom buds begin to swell. Reapply at 2-4 week intervals.	13 - 26 oz. Do not exceed 7.4 LB of product (4½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Blueberries	Bacterial Canker	Make first application before fall rains and second application 4 weeks later. Reapply every 7 days, as needed, if disease pressure persists.	8 - 20 oz. Do not exceed 4.7 LB of product (2.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Caneberries (<i>Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalems, Thornless Evergreens, Blackberry & Raspberry</i>) (dormant)	Anthraco-nose, Cane spot, Leaf spot, Pseudomonas blight, Purple blotch, Yellow rust	Make fall application after harvest. Reapply every 7 days, as needed. Apply delayed dormant spray after training in the spring.	8 - 20 oz. Do not exceed 6 LB of product (3.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.

Caneberries (<i>Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalems, Thornless Evergreens, Blackberry & Raspberry</i>) (growing season)	Anthracnose, Cane spot, Leaf spot, Pseudomonas blight, Purple blotch, Yellow rust	Apply when leaf buds begin to open and repeat when lower buds show white. Reapply every 7 days, as needed. NOTE: Crop injury may occur if applied foliage under certain environmental conditions such as hot or prolonged moist conditions. Discontinue application if signs of crop injury appear.	4½ - 13 oz. Do not exceed 6 oz. of product (3.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Cherry (dormant & late bloom season)	Dead Bud (Pseudomonas syringae), Coryneum Blight (Shot hole) leaf spot	Reapply every 7 days, as needed. Where the disease is severe, a second spray should also be applied shortly after harvest.	1¼ - 4¼ LB Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Cherry (bloom & growing season)	Brown rot blossom	Apply at popcorn and full bloom every 5 days as needed.	4½ - 13 oz. Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Citrus (<i>Grapefruit, Kumquat, Lemon, Orange, Pummelo, Tangelo, Tangerine & Lime</i>)	Melanose, Scab, Pink pitting, Greasy spot, Brown rot, Alternaria	Apply as pre-bloom and post-bloom sprays. Reapply every 7 days, as needed. For Scab suppression, make 2 applications, one just before trees begin to flush and repeat at ¾ petal fall. For Melanose, make application 1-3 weeks after petal fall and repeat 14 days later if necessary.	4½ - 13 oz. Do not exceed 7.4 of product (4½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Citrus canker (suppression only)	Spray flushes 7-14 days after shoots begin to grow. Young fruit may need additional application. Under heavy disease pressure, each flush of new growth should be sprayed.	13 - 26 oz. Do not exceed 7.4 LB of product (4½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Cranberries	Bacterial canker	Make first application in late bloom. One or two additional applications at 10-14 day intervals may be required depending upon disease severity.	8¾ - 17½ oz. Do not exceed 3.7 LB of product (2½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Rose bloom	Apply three sprays on a 10-14 day schedule as soon as symptoms are observed.	
	Bacterial stem canker	Apply post harvest and again in spring before bud burst. One or two additional applications at 10-14 day intervals may be required depending upon disease severity.	
	Leaf blight red leaf, Spot stem blight tip, Blight (Monilinia)	Apply delayed dormant spray in the spring. Reapply every 10-14 days as needed through pre-bloom.	

Cucurbits (Cucumber, Cantaloupes, Honeydews, Muskmelons, Pumpkins, Squash & Watermelons)	Alternaria leaf spot, Angular leaf spot, Anthracnose, Downy mildew, Powdery mildew, Gummy stem blight, Watermelon bacterial fruit blotch (suppression) Scab	Begin application when conditions are favorable for disease development. Reapply every 5-10 days. NOTE: Crop injury may occur from application at higher rates and shorter intervals. Discontinue use if injury occurs.	2 - 8¾ oz. Do not exceed 3 LB of product (1.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Currants & Gooseberry	Anthracnose, Leaf spot	Starting after harvest, make applications before bloom and after petal fall. Reapply every 10-14 days during wet conditions in the spring. Make an additional application after harvest.	11- 22 oz. Do not exceed 6 LB of product (3.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Filberts (post harvest application)	Bacterial blight	Apply as a post harvest spray every 14 days as needed. In seasons of heavy rainfall, apply a second spray when ¾ of the leaves have dropped.	1¼ - 3¾ LB Do not exceed 14.4 LB of product (8¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Eastern filbert blight	Apply as a dilute spray in adequate water for thorough coverage. Make initial application after harvest in October before winter rains begin. Make next application in late February to early March followed by another application 1 month later.	
Grapes	Black rot, Downy mildew, Phomopsis, Powdery mildew	Begin applications at late dormant up to bud break with subsequent applications throughout the season every 3 days depending upon disease severity. NOTE: Foliage injury may occur on copper sensitive varieties such as Concord, Delaware, Niagara, and Rosette.	2 -26 oz. Do not exceed 11.9 LB of product (7¼ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Guava	Anthracnose, Red algae	Make initial application just before flowering. Reapply every 7-10 days, until just before harvest. Apply in sufficient water volume for thorough coverage.	6½ - 10¼ oz. Do not exceed 2.8 LB of product (1¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Kiwis	Erwinia herbicola, Pseudomonas fluorescens, Pseudomonas syringae	Apply in 5 gallons of water per 1000 sq. ft. Make 3 applications at 30 day intervals.	8 -20 oz. Do not exceed 3.5 LB of product (2½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Mango	Anthracnose	Apply every 30 days after fruit set until harvest. Consult Extension Service for local recommendations.	8¼ -22 oz. Do not exceed 10.5 LB of product (6.3 oz. metallic copper equivalent) per 1000 sq. ft. per year.

Macadamia	Anthraco nose	Begin applications at first sign of flowering. Reapply every 7-10 days until just before harvest. Apply in sufficient water for thorough coverage.	8¾ - 22 oz. Do not exceed 5.3 LB of product (¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Phytophthora blight (P. capsici), Raceme blight (Botrytis cinerea)	Apply every 7-10 days during raceme development and bloom periods. Apply in sufficient water for thorough coverage.	4½ - 13 oz. Do not exceed 5.3 LB of product (¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Olives	Peacock spot, Olive knot	Apply post harvest before winter rain fall. A second application should be made in early spring if disease is severe.	8¾ - 26 oz. Do not exceed 3.5 LB of product (2½ oz. metallic copper equivalent) per 1000 sq. ft. per year
Papaya	Anthraco nose	Begin application before disease is expected to appear. Repeat every 14 days.	¾ - 22 oz. Do not exceed 6.2 LB of product (7.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Passion Fruit	Anthraco nose	Make initial application just before flowering and repeat every 7 days until just before harvest. Apply in sufficient water volume for thorough coverage.	8¾ - 22 oz. Do not exceed 5.3 LB of product (¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Peaches & Nectarines (dormant)	Bacterial blast (Pseudomonas), Bacterial canker, Bacterial spot (Xanthomonas), Leaf curl, Coryneum Blight (Shot hole)	Make dormant application after leaf drop. Repeat every 7-10 days, as needed, prior to bud swell.	1¼ - 4¾ LB Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Peaches & Nectarines (bloom & growing season)	Brown rot blossom blight (California), Leaf curl, Coryneum Blight (Shot hole)	Apply as a full cover spray at pink bud. Reapply every 5-7 days, as needed, up to 3 weeks prior to harvest.	4½ - 13 oz. Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Peanuts	Cercospora leaf spot	Begin spraying 35-45 days after planting or when disease symptoms appear. Use sufficient water to get adequate coverage. Continue application every 10-14 days. Reduce spray interval to 7 days during humid weather.	2 - 6½ oz. Do not exceed 2.7 LB of product (1.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Pears & Quince (dormant)	Pseudomonas blight Scab Leaf blights	Apply during dormant season before fall rain begins. NOTE: Excessive dosages may cause fruit russet.	1¼ - 4¾ LB Do not exceed one [1] application of product per season.
Pears & Quince (bloom & growing season)	Fireblight	Apply every 5-7 days throughout bloom period. NOTE: Do not apply to d'Anjou pears. Excessive dosages may cause fruit russet.	2 - 4½ oz. Do not exceed 9.6 LB of product (5.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.

Pecans (dormant)	Mosses, Algae, Lichen	Apply in dormant season before buds swell, thoroughly wetting limbs and mosses.	1 LB Do not exceed one [1] application of product per season.
Pecans (growing season)	Shuck and kernel rot (Phytophthora cactorum), Zonate leaf spot (Cristulariella pyramidalis)	Apply in sufficient water for good coverage every 2-4 weeks starting at kernel growth and continuing until shucks open.	8 -20 oz. Do not exceed 4.7 LB of product (2.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Pistachios	Botrycsphaeria panicle blight, Botrytis blight, Late blight (Alternaria alternata), Septoria leaf blight, Shoot blight	Make initial application at bud swell and repeat every 14-28 days as needed.	8 -20 oz. Do not exceed 4.7 LB of product (2.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Plums & Prunes (dormant)	Coryneum blight (Shot hole)	Apply as a dormant spray every 7-10 days, as needed.	1¼ - 4¾ LB Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Plums & Prunes (blooming & growing season)	Brown rot blossom blight	Apply full cover application at pink, red or early white bud stage every 5-7 days, as needed.	4½ - 13 oz. Do not exceed 10.7 LB of product (6½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Strawberries	Downy mildew, Leaf spot, Leaf blight, Leaf scorch	Begin application when plants are established and continue every 7-10 days throughout season. NOTE: Discontinue applications if signs of phytotoxicity appear	4½ - 13 oz. Do not exceed 4.7 LB of product (2.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Walnuts	Walnut blight	Apply first spray at early pre-bloom prior to or when catkins are partially expanded. Make additional applications every 7-10 days during bloom and early nutlet stage or as needed if frequent rainfall occurs. Thorough coverage of catkins, leaves and nutlets is essential for effective control. NOTE: Adequate control may not be obtained when copper tolerant strains of Xanthomonas bacteria are present.	8¾ - 26 oz. Do not exceed 14.8LB of product (9 oz. metallic copper equivalent) per 1000 sq. ft. per year.

VEGETABLES AND HERBS

As a Dust: Control of disease depends upon thorough and complete application (a thin, uniform film) to both tops and undersides of leaves. Small canisters may be used as a duster by partially crushing and rapidly squeezing the sides in upright position, or use a good pressure duster. Application when wind is very light or absent, usually early morning or evening, will prevent drift and loss of product to adjacent areas.

As a Spray: (Using hand or tank sprayers) – Consult spray table below. Add proper amount of powder to small amount of water and strain. Next, add solution to 3 gallons of water and apply to cover 1000 sq. ft. Agitate sprayer to keep nozzle from plugging. Thoroughly spray upper and lower surfaces of foliage to the point of runoff. Do not overspray.

Crop (Site)	Disease	When to Apply	Amount*
Beans (green or dry)	Bacterial blight (Halo & common), Brown spot, Common blight, Downy mildew, Angular leaf spot, anthracnose	For protective sprays, make initial application when plants are six [6] inches high. Reapply every 7-14 days, as needed.	2 – 6½ oz. Do not exceed 2.4 LB of product (1½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collard Greens, Mustard Greens & Turnip Greens	Downy mildew	Make initial application after transplants are set or shortly after emergence of seeded plants or when conditions favor disease development. Apply every 7-10 days as needed. NOTE: Reddening of older leaves may occur on broccoli and a flecking of wrapper leaves may occur on cabbage.	¾ - 4½ oz. Do not exceed 1.4 LB of product (0.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Black leaf spot (Alternari), Black rot (Xanthomonas),		2 – 4½ oz. Do not exceed 1.4 LB of product (0.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Carrots	Alternaria leaf spot, Cercospora leaf spot Downy mildew	Make initial application when disease first threatens and reapply every 7-14 days, as needed. Use on yellow varieties may cause discoloration. To avoid, pick before spraying.	2 – 8¾ oz. Do not exceed 2.8 LB of product (1¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Fireblight	Make initial application between silver-tip and green-tip stage. NOTE: Phytotoxicity may occur from late application. Discontinue use when green-tip is ½ inch.	
	Crown or collar rot (Phytophthora cactorum)	Apply either in early spring or in fall after harvest each year. Do not use if soil pH is below 5.5 or copper toxicity may result.	
Celery & Celeriac	Bacterial blight, Cercospora early blight, Septoria late blight, leaf spot	Make initial application when plants are first established. Reapply every 7 days, as needed.	2 – 8¾ oz. Do not exceed 3 LB of product (1.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Chives	Downy mildew	Make initial application when plants are established. Reapply every 7-10 days as needed.	2 - 4½ oz. Do not exceed 1.4 LB of product (0.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.

Dill	Phoma leaf spot	Make initial application when plants are first established. Reapply every 7-10 days, as needed.	2 - 6½ oz. Do not exceed 2.2 LB of product (1.3 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Eggplant	Alternaria blight, Anthracnose, Phomopsis, downy mildew, leaf spot	Make initial application prior to development of disease symptoms.	2 - 6½ oz. Do not exceed 2.2 LB of product (1.3 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Endive, Escarole, Lettuce	Downy mildew	Begin treatment when disease first appears and repeat every 5-10 days as needed.	1 - 8¾ oz. Do not exceed 4.7 LB of product (2.8 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Onion & Garlic	Purple blotch, Downy mildew	Make initial application when plants are 4 to 6 inches high and repeat every 7-10 days, as needed. NOTE: Can cause phytotoxicity to leaves.	2 - 8¾ oz. Do not exceed 3.5 LB of product (2½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Parsley	Bacterial blight (Pseudomonas sp.)	Begin applications when plants are first established. Reapply every 10 days.	4½ - 8¾ oz. Do not exceed 1LB of product (0.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Peas	Powdery mildew, Downy mildew, leaf spot	Begin applications when disease symptoms first appear and reapply every 7 days as needed.	¾ - 6½ oz. Do not exceed 2.2 LB of product (1.3 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Peppers	Bacterial spot Anthracnose, early blight, cercospora leaf spot, downy mildew	Begin applications when conditions first favor disease development and repeat every 3-10 days as needed.	2 - 6½ oz. Do not exceed 6.8 LB of product (4½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Potatoes	Early & late blight	Begin applications when plants are 6 inches high. Reapply every 5-10 days.	4½ - 22 oz. Do not exceed 14.8 LB of product (9 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Spinach	Anthracnose, Blue mold, Cercospora leaf spot, Downy mildew, White rust	Begin applications when disease first appears or when conditions favor disease development. Reapply every 7-10 days as needed. NOTE: Flecking may occur on spinach leaves.	2 - 6½ oz. Do not exceed 2.2 LB of product (1.3 oz. metallic copper equivalent) per 1000 sq. ft. per year.
Beets	Cercospora leaf spot	Begin applications when conditions first favor disease development and repeat every 10-14 days, as needed.	4½ - 11 oz. Do not exceed 4.5 LB of product (2¾ oz. metallic copper equivalent) per 1000 sq. ft. per year.

Tomatoes	Early blight, head rust, Stemphylium leaf mold	Apply every 3 days, as needed, before fall rains. Use on yellow varieties may cause discoloration. To avoid, pick before spraying.	2 - 4½ oz. Do not exceed 9.8 LB of product (6 oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Bacterial speck	Apply every 10-30 days, as needed, beginning when the disease threatens.	
	Bacterial spot, Anthracnose, Gray leaf mold, Gray leaf spot, Septoria leaf spot, Late blight	Apply every 3-10 days, as needed, beginning when the disease threatens.	
Watercress	Cercospora leaf spot	Begin applications when plants are first established and repeat every 7-14 days, as needed, up to four [4] applications per year.	2 - 4½ oz. Do not exceed 1 LB of product (0.6 oz. metallic copper equivalent) per 1000 sq. ft. per year.

ORNAMENTAL FLOWERS SHRUBS AND VINES

As a Dust: Control of disease depends upon thorough and complete application (a thin, uniform film) to both tops and undersides of leaves. Small canisters may be used as a duster by partially crushing and rapidly squeezing the sides in upright position, or use a good pressure duster. Application when wind is very light or absent, usually early morning or evening, will prevent drift and loss of product to adjacent areas.

As a Spray: (Using hand or tank sprayers) – Consult spray table below. Add proper amount of powder to small amount of water and strain. Next, add solution to 3 gallons of water and apply to cover 1000 sq. ft. Agitate sprayer to keep nozzle from plugging. Thoroughly spray upper and lower surfaces of foliage to the point of runoff. Do not overspray.

Crop (Site)	Disease	When to Apply	Amount*
Azalea	Galls (flower, leaf, stem)	Apply to entire plant before buds break in the spring. Reapply 2-3 weeks later. Should any galled leaves appear, remove and burn.	8 oz. Do not exceed 5.7 LB of product (3½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Anthracnose, Leaf spots, Botrytis blight, leaf scorch	Begin treatment in spring before disease appears and repeat every 7-10 days, as needed.	
Camellia	Dieback	Begin treatment in spring before disease appears and repeat every 7-10 days and after rains, as needed.	
Ivy	Bacterial leaf spot		
Laurel, Asters, Begonias, Chrysanthemums, Gardenias, Marigolds, Phlox, Stocks	Leaf blights, Leaf spots		
Lilac	Leaf spot		
Pyracantha	Fire blight, Scab		
Rhododendron	Botrytis blight, Bud and twig blight, Leaf spots		
Rose	Powdery mildew, anthracnose, black spot, downy mildew, leaf spot, stem canker		
Lilac	Bacterial blight	Apply thoroughly in September and again before fall rains. Prune out and burn affected parts of the bush as they appear.	
Flowering Shrubs	Certain leaf spots (cercospora, septoria, botrytis)	Spray at first appearance of small discolored areas on leaves. Repeat sprays as necessary.	

ORNAMENTAL AND SHADE TREES

As a Spray: (Using hand or tank sprayers) – Consult spray table below. Add proper amount of powder to small amount of water, strain, add remainder of water and spray – agitate sprayer to keep nozzle from plugging. 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 upper and lower surfaces of foliage to the point of runoff. Do not overspray.

Crop (Site)	Disease	When to Apply	Amount*
Arborvitae, Cypress, Juniper	Berckman's blight (Arborvitae only), Leaf Spot	Spray twice in fall. Make first application in late September or early October and second application in early November.	8 oz. Do not exceed 5.7 LB of product (3½ oz. metallic copper equivalent) per 1000 sq. ft. per year.
	Coryneum blight	Apply in early spring and fall.	
Dogwood	Anthracnose (NW only)	Begin sprays at bud break, repeat 2 or 3 times every 10 days.	
Maple	Leaf spot, Leaf curl	Apply as leaves uncurl in spring and repeat in 2-3 weeks.	
Hawthorne			

150 of 15

Douglas Fir	Rhabdocine needlecast	Begin applications at bud break and repeat every 7-28 days as needed.	8¾ - 17½ oz. Do not exceed 11.9 LB of product (7¼ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Live Oak	Ball moss, Spanish moss, Leaf Blister (Typhrina)	Apply in spring after heavy rain. Make sure to wet tufts thoroughly. Make a second application, if needed in 12 months.	8 - 20 oz. Do not exceed 11.9 LB of product (7¼ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Sycamore	Anthraco nose	Apply as a full cover spray. Make first application at bud crack and second application 7-10 days later (at 10% leaf expansion).	8¾ - 17½ oz. Do not exceed 11.9 LB of product (7¼ oz. metallic copper equivalent) per 1000 sq. ft. per year.
Pine	Brown Needle Blight	Begin applications at bud break and repeat every 7-28 days as needed.	8¾ - 17½ oz. Do not exceed 11.9 LB of product (7¼ oz. metallic copper equivalent) per 1000 sq. ft. per year.

Bonide® Copper Spray or Dust does not control insects. Use Bonide® Rotenone-Copper Dust or Bonide® Garden Dust.

*One ounce = 2 rounded Tablespoons (Tbs) or 6 teaspoons (tsp).

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

WARRANTY STATEMENT: To the extent consistent with applicable law, buyer assumes all risk for use of this product when not used in accordance with label directions or established safe practice.

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[batch code to be inserted at production]
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