



035935-00003-093098

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Systems Integration Group, Inc.

PM 22

35935-3

9-30-98

1049

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A) <b>EPA</b>	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
	<b>Application for Pesticide:</b>		Please Attach An Original Form

Section I

1. Company/Product Number 35935-3	2. EPA Product Manager Cynthia Giles-Parker	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Cuproxat® Flowable Copper Fungicide	PM# 22	
5. Name and Address of Applicant (Include ZIP Code)  Nufarm Americas, Inc. Agent for Nufarm Limited 1009-D West St. Maartens Dr. St. Joseph, MO 64506  <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. _____ 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

**NOTIFICATION**  
SEP 30 1998


**Explanation:** Use additional page(s) if necessary. (For Section I and Section II). NOTIFICATION of minor label revisions: 1. Pears: Editorial clarifications to efficacy related use precautions. 2. Pears: Add Pseudomonas Blight in accordance with existing rates/ timing. This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 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 95-2 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:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No  *Certification must be submitted.	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No  If "Yes," Unit Package Wt.      No. Per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No  If "Yes," Package Wt.      No. Per Container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6. Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other ( _____ ) <input type="checkbox"/> Paper Glued <input type="checkbox"/> Stenciled			

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name William M. Mahlburg	Title Manager, Registration & Governmental Affairs	Telephone No. (Include Area Code) (816) 279-1500

<b>Certification</b> 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 	3. Title Manager, Registration & Governmental Affairs	
4. Typed Name William M. Mahlburg	5. Date September 23, 1998	

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NOTIFICATION

SEP 30 1998

Notification 9/23/98: Added text underlined on page 6 of labeling.



# CUPROXAT®

## Flowable Copper Fungicide

FOR CONTROL OF CERTAIN DISEASES ON MANY AGRICULTURAL CROPS, ORNAMENTAL PLANTS & TREES

**ACTIVE INGREDIENT:**

Basic copper sulfate ..... 27.1%

INERT INGREDIENTS: ..... 72.9%

TOTAL: ..... 100.0%

Equivalent to 1.6 pounds per gallon or 14.9% metallic copper

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See Below For Additional Precautionary Statements

EPA REG. NO. 35935-3  
EPA EST. NO. 35935-AUT-1

NET CONTENTS \_\_\_ GALS. ( \_\_\_ L)

09/98

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, Call CHEMTREC Day or Night 1-800-424-9300

**AGRICULTURAL CHEMICAL**

Do not ship or store with foods, feeds, drugs or clothing.

**STATEMENT OF PRACTICAL TREATMENT**

**If swallowed:** Call a physician or poison control center. Drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**If in eyes:** Flush with plenty of water. Get medical attention if irritation persists.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed or absorbed through the skin. May cause skin

sensitization in certain individuals. Causes eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

**Personal Protective Equipment (PPE):**

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

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

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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 organisms. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

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

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal

protective equipment (PPE) 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 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, waterproof gloves, and shoes plus socks.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR, Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children, pets and other unprotected persons out of treated areas until sprays have dried.

**STORAGE AND DISPOSAL**

**STORAGE:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Store tightly closed container out of reach of children and animals.

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

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) adding rinsate to spray tank. Then offer for recycling or reconditioning, 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.

**GENERAL INFORMATION**

Use Cuproxat as noted below. Cuproxat is adaptable to spraying from all types of spray equipment. Depending on the equipment used and the specific crop (amount of foliage to be covered), the volume applied per acre will differ. For best results, thorough coverage is essential. For dilute, high volume sprays: use from 25 to 100 gallons of water per acre (GPA) for most vegetable and row crops, 400 to 800 GPA for fruit orchards, and up to 1500 GPA as may be required for large citrus groves. For concentrate ground sprays, apply from 5 to 20 GPA for most field crops; 25 to 100 GPA for fruit and nut crops. For aerial spraying, 3 to 15 GPA are commonly used. No additional surfactants are needed. Add Cuproxat slowly to a spray tank partially filled with water. Spreader-stickers, insecticides, nutrients, etc., should be added last. Cuproxat is compatible with many commercially formulated insecticides and fungicides. Since the number of combinations of pesticide mixtures is very large, it is advisable to check for compatibility and apply mixtures as soon as possible. Observe all cautions and limitations on labels of all products used in mixtures. The following specific instructions are based on general applications. The recommendations of State Agricultural Extension Services should be closely followed as to timing, frequency and number of sprays per season.

**HOMEOWNER USE:** One (1) level teaspoon of Cuproxat per gallon of water is equivalent to one (1) pint of Cuproxat per 100 gallons of water. Make application according to specific instructions given below

for those crops where rates are given in pints/hundred gallons. (For example: 2 pints Cuproxat per 100 gallons are equivalent to 2 level teaspoons Cuproxat per gallon.)

Use hydrated lime at the rate of 1 teaspoon to each gallon of spray solution for each lb. per 100 gallons recommended. (For example: A recommended rate of 4 lbs. of hydrated lime/100 gallons of spray would be equivalent to 4 teaspoons per gallon of spray solution prepared.) Spray both the upper and lower leaf surfaces to the point of runoff. Use the highest label rates when weather conditions conducive to severe disease pressure exist.

**CHEMIGATION INSTRUCTIONS**

Apply this product only through sprinkler [including center pivot, lateral move, end tow, side (sheet) roll, traveler, big gun, solid set, or hand move] irrigation systems. 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 nonuniform distribution of treated water.

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

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

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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

**IF IRRIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM, THE FOLLOWING SAFETY DEVICES MUST BE IN PLACE IN ADDITION TO THE REQUIREMENTS LISTED ABOVE:**

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

Chemigation systems connected to public water systems must contain a

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

**DIRECTIONS FOR CHEMIGATION USE**

It is recommended that the pesticide supply tank be equipped for continuous agitation by either recirculation or a mechanical agitator.

**Mixing Instructions:** Fill the supply tank with approximately one half of the amount of water to be used for dilution. With agitation, add any emulsifiable concentrate to be used, including any oils. Agitate thoroughly. Next add any spreader-sticker or other adjuvant and agitate thoroughly. Then add the Cuproxat and any other flowable. Agitate thoroughly. Finally, add any wettable powder or dry flowable and agitate thoroughly. With agitation, add the remainder of the water to be used for application. Continue agitation during application until supply tank is empty. Observe all precautions and limitations on the labels of all products used in the mixture.

**Application:** For fixed position irrigation systems such as center pivot, big gun, etc., the pesticide should be applied towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system being used. For moving systems, the pesticide should be applied continuously. In all cases, careful attention should be paid to thorough coverage of the crop during application.

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

**Important Notice:** Improper exposure of aluminum irrigation equipment to copper-based formulations may result in corrosion. Before applying this product by chemigation, contact your equipment supplier for any special restrictions or procedures.

**RECOMMENDED USES**

**ALFALFA: Cercospora and Leptosphaerulina Leaf Spots:** Apply 2-2/3 pints per acre 10 to 14 days before each harvest or earlier if disease threatens. Apply with ground or aerial equipment. Spray injury may occur with sensitive varieties such as Lahontan.

**ALMONDS: Brown Rot Blossom and Twig Blight (Monilinia):** Use 2-2/3 to 4 pints Cuproxat for each 100 gallons of spray mixture during the early bloom stage (popcorn). A second application in late dormancy, before foliage buds swell, may be necessary when frequent rainfall occurs. Do not spray after 50% bloom or when trees are in leaf.

**Bacterial Blast (Pseudomonas):** Use 4 to 5-1/3 pints Cuproxat for each 100 gallons of spray mixture at dormant to early pink bud. For blast control in sprinkler irrigated orchards or where disease is severe, apply 2 to 4 Cuproxat sprays at the rate of 2/3 pint of product per 100 gallons of spray mixture. Apply at 2-week post-bloom intervals or just before sprinkling. Slight leaf injury may occur from post-bloom spray.

**APPLES: CAUTION:** Phytotoxicity may occur from late application. (Discontinue use when green-tip is one-half inch.)

**Anthracnose:** Use 4 to 5-1/3 pints Cuproxat for each 100 gallons of mixture. For red varieties, apply to foliage before or after harvest. For yellow varieties, apply to foliage after harvest once every 2 to 3 years as necessary.

**Bitter Rot, Black Rot, Blotch, Powdery Mildew:** 1/2 to 1-1/2 pints of Cuproxat plus 3 to 5 pounds hydrated lime for each 100 gallons of spray mixture. Begin at petal fall and repeat through fourth cover spray.

**Bulls-eye Rot:** Use 4 pints Cuproxat with a suitable spray oil for each 100 gallons of spray mixture. Apply after harvest.

**Fire Blight:** 1/3 to 1/2 pints Cuproxat for each 100 gallons of spray mixture; 2 pints of Cuproxat per acre in concentrate sprayers. Begin at 10 percent bloom. Repeat at 5 day intervals until late bloom is over.

**APRICOTS: Coryneum Blight (Shot Hole) and Blossom Brown Rot:** Apply at popcorn to full bloom using 2-2/3 to 5-1/3 pints Cuproxat for each 100 gallons of spray mixture as a full cover spray. To avoid spray injury, do not apply after bloom.

**Scab:** Apply 2-2/3 to 4 pints Cuproxat for each 100 gallons of spray mixture. For additional recommendations, consult state extension service specialists.

**ARALIA: Xanthomonas & Cercospora Leaf Spots, Alternaria:** See Ornamental Plants and Trees.

**ARBORVITAE: Blight, Leaf Spots:** See Ornamental Plants and Trees.

**ASTERS: Leaf Spots, Blights:** See Ornamental Plants and Trees.

**AVOCADOS (Florida): Scab:** Apply at a rate of 2-2/3 pints Cuproxat in 100 gallons spray mixture. When bloom buds begin to swell, make the first 5 applications at four (4) week intervals. Continue applications at monthly intervals for 5 to 6 additional applications. Do not apply later than 120 days after bloom. Consult state agricultural experiment stations for additional recommendations.

**AZALEA: Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback & Powdery Mildew:** See Ornamental Plants and Trees.

**BANANAS: Sigatoka:** Apply by air at 2-2/3 pints per acre in 3 gallons of water containing 0.5 gallon agricultural oil. Apply on a 14 day schedule throughout the wet season. Apply at 21 day intervals during dry periods.

**Black Pitting:** Apply at 5-1/3 pints per 100 gallons directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after emergence.

**BEANS: Anthracnose, Angular and other Leaf Spots, Downy Mildew, Bacterial Blight (Halo and Common):** Use 1-1/3 to 4 pints per acre. First application when plants are six inches high. Apply on 7 to 14 day schedule, depending on local conditions.

**BEETS: Leaf Blight and Spot Downy Mildew:** Begin sprays of 2-2/3 to 6-2/3 pints per acre when diseases appear; repeat every 7 to 10 days.

**BEGONIA: Xanthomonas Leaf Spot, Anthracnose:** See Ornamental Plants and Trees.

**BLACKBERRIES: (Santiams, Logons, Boysens, Marions, Auroras, Cascades, Chehalems and Thornless Evergreens): Leaf and Cane Spot:** Use 2 pints for each 100 gallons of spray mixture. Spray first when leaf buds swell, again when flowers begin to open.

**Anthracnose:** Use 2 pints of Cuproxat for each 100 gallons of spray mixture. Spray first when leaf buds begin to open, again when flower buds turn white. Repeat at 10 to 14 day intervals. Post-harvest, after pruning but before fall rains, apply 5-1/3 pints of Cuproxat with 1 quart superior-type oil for each 100 gallons of spray mixture. Dormant spray in spring after training, apply 5-1/3 pints with 1 quart superior-type oil for each 100 gallons of spray mixture.

**BOXWOOD: Wilt:** See Ornamental Plants and Trees.

**BROCCOLI, BRUSSELS SPROUT, CABBAGE, AND CAULIFLOWER:** CAUTION: A slight reddening of older leaves may occur on broccoli and a slight flecking of wrapper leaves may occur on cabbage at the 2/3 pint rate). For control of diseases of these crops, begin applications after transplants are set in the field, or shortly after emergence of field-seeded crops or when conditions favor disease development.

**Downy Mildew:** In planted beds, apply 2/3 to 1-1/3 pints/acre in a minimum of 25 gallons of spray mixture per acre before diseases appear. Repeat at 7 to 10 day intervals, as needed.

**CABBAGE ONLY: Black Rot (Xanthomonas) and Black Leaf Spot (Alternaria):** Apply at 2/3 pints per acre in a minimum of 25 gallons of spray mixture per acre at 7 to 10 day intervals.

**BULBS (Easter Lily, Tulip, Gladiolus), Botrytis Blight:** See Ornamental Plants and Trees.

**CACAO, Black Pod:** Begin applications at the start of the rainy season and continue while infection conditions persist. Sprays should be made as often as 14 to 21 days in high rainfall areas at varying rates from 2-2/3 to 6 pints per acre depending on disease severity. For drier areas, where 2 to 4 applications are recommended during critical infection periods and at long intervals, use 8-2/3 to 11-1/3 pints per acre according to disease pressure incidence and planting density.

**CARNATIONS: Botrytis Blight, Leaf Spots, Leaf Gall:** See Ornamental Plants and Trees.

**CARROTS: Leaf Spot, Carrot Blight (Cercospora):** When disease threatens, apply 2-2/3 pints per acre at 7 to 14 day intervals depending on disease severity.

**CELERY: Early, Late, and Bacterial Blights:** Apply as soon

as plants are established in the field at 2-2/3 pints per acre, then every 5 to 7 days, depending on disease severity and weather. One to two quarts of a suitable agricultural spray oil per acre may be used as spreader-sticker.

**CHERRY: Dead Bud:** Apply 8 pints Cuproxat plus 1 pint superior-type oil for each 100 gallons of spray mixture in October (before heavy fall rains) and again in January. In orchards where the disease is severe, a spray should also be applied in August.

**Brown Rot:** 2-2/3 to 4 pints Cuproxat for each 100 gallons of spray mixture. Apply in red bud to popcorn and late bloom stages.

**Leaf Spots:** Use 2-2/3 to 4 pints Cuproxat plus 4 pounds of hydrated lime for each 100 gallons of spray mixture. Spray at petal fall and make 1 or 2 harvest applications.

**Shot Hole:** 2-2/3 to 4 pints Cuproxat for each 100 gallons of spray mixture. Apply as a dormant spray.

**CHRYSANTHEMUMS: Botrytis Blight, Downy Mildew, Leaf Spots:** See Ornamental Plants and Trees.

**CITRUS: Melanose, Scab, Greasy Spot and Pink Pitting:** Apply as a pre-bloom and post-bloom spray. Use 4 to 8 pints Cuproxat per acre. Use lower rate for light disease pressure and/or acreage with lower amounts of foliage. Use higher rate when disease pressure is severe and/or acreage that has a large amount of foliage to cover. Mix with sufficient water to insure thorough coverage of all foliage to the point of run off. For aerial application at 8 pints per acre rate, mix with a minimum of 10 gallons of water.

**Brown Rot:** Use 2-2/3 to 5-1/3 pint per acre. Use lower rate for light disease pressure and/or acreage with lower amounts of foliage. Use higher rate when disease pressure is severe and/or acreage that has a large amount of foliage to cover. Mix with sufficient water and insure thorough coverage of all foliage. Make a single application in fall before or just after first heavy rain. Apply also to bare ground up to one foot past skirt. (California only: In areas subject to copper injury, add 1/3 to 1 pound of high quality lime per 1/3 pints of Cuproxat.)

**Citrus Canker:** Spray flushes 7 to 14 days after shoots begin to grow. Apply 1 quart per 100 gallons of water using enough spray to thoroughly cover trees. For concentrate sprays, apply at equivalent rates in sufficient water to insure thorough coverage. Young fruit may require an additional application. (Under slight disease pressure, the early spring and late fall flushes may not need spraying. Under heavy disease pressure, each flush of new growth should be sprayed.)

**COFFEE: Iron Spot (Cercospora coffelcola) & Pink Disease (Cordcium salmonicolor):** Apply at 2-2/3 pints per acre as a concentrate or dilute spray. Begin treatment at start of wet season and continue at monthly intervals for three applications.

**Leaf Rust (Brazil):** Apply at 4-2/3 to 7-1/3 pints per acre for average density plantations. High density plantations may require 9-1/3 to 10-2/3 pints per acre. Make application from September to March depending on altitude and local recommendations. Apply at three to four week intervals depending on disease severity and rainfall conditions.

**COTONEASTER, Botrytis Blight:** See Ornamental Plants and Trees.

**CRANBERRY: Fruit Rot:** Apply at 10-2/3 pints per acre beginning in late bloom. One to two additional applications made at 10 to 12 day intervals may be required, depending on disease pressure. Follow the advice of the state agricultural extension service.

**CUCURBITS: (Cantaloupe, Cucumbers, Honeydew Melons, Muskmelons, Pumpkins, Squash, Watermelons): Angular Leaf Spot, Anthracnose, Bacterial Wilt, Downy and Powdery Mildew, Gummy Stem Blight, other Leaf Spots and Scab:** Apply 2 to 2-2/3 pints per acre. Start spraying when plants emerge or begin to vine, or before disease appears. Repeat at 7 to 10 day intervals. Spray to protect crop at all stages of development. Ground application of this product after planting and before plant emergence may help decrease infestation of **Angular Leaf Spot**.

**CURRENTS AND GOOSEBERRY: Anthracnose, Leaf Spot:** Apply 1-1/3 pints Cuproxat for each 100 gallons of spray mixture at leaf opening and repeat in 10 to 14 day intervals.

**DAHLIAS: Botrytis Blight, Leaf Spots:** See Ornamental Plants and Trees.

**DOGWOOD: Anthracnose, Leaf Spots:** See Ornamental Plants and Trees.

**ENDIVE, ESCAROLE: Downy Mildew:** Apply 1-1/3 to 2-2/3 pints per acre. Begin treatment when disease first appears and repeat every 7 to 10 days as needed to suppress disease.

**EGGPLANT: Anthracnose, Downy Mildew, Early (Alternaria) Blight, Phomopsis Blight, Leaf Spots:** Beginning in plant bed or in field before disease appears, apply 2-2/3 pints per acre. Repeat at 7 to 10 day intervals.

**EUONYMUS: Botrytis Blight, Anthracnose:** See Ornamental Plants and Trees.

**FILBERTS: Bacterial Blight:** Apply 2/3 to 4 gallons per acre as a post-harvest spray in seasons of heavy rainfall, apply another spray when three-fourths of the leaves have dropped. Add 1 pint of superior type oil per 100 gallons of water.

**GARDENIAS: Leaf Spots:** See Ornamental Plants and Trees.

**GERANIUMS: Botrytis Blight, Downy Mildew:** See Ornamental Plants and Trees.

**GINSENG: Alternaria Leaf & Stem Blight:** Cuproxat may be applied at 3-1/2 pints per acre as a tank mix with two pounds Iprodione 50WP in 100 gallons of water per acre. Begin Iprodione-Cuproxat applications as soon as plants have emerged in spring. Applications should be repeated every seven days until plants become dormant in fall. Apply fungicides at least eight hours before rain, giving the fungicides time to dry on the plants. Use of a spreader-sticker is advised. NOTE: Alternaria Leaf & Stem Blight is most severe in humid conditions such as those found in the dense canopies of two, three and

four year old ginseng. Complete and thorough spray coverage is required for control.

**GLADIOLUS: Botrytis Blight, Downy Mildew, Leaf Spots:** See Ornamental Plants and Trees.

**GRAPEFRUIT:** See Citrus.

**GRAPES: CAUTION:** Slight to severe foliage injury may occur on copper-sensitive varieties such as Concord, Delaware, Niagra and Rosette.)

**Anthracnose:** Use 2-2/3 pints Cuproxat for each 100 gallons of spray mixture on dormant vines in late spring. Repeat every 10 to 14 days after leaves form.

**Downy Mildew, Black Rot, Powdery Mildew, Bitter Rot:** Apply 2-2/3 to 3 pints Cuproxat for each 100 gallons of spray mixture plus 2-6 pounds hydrated lime. Spray when first leaves appear, repeat before blossom open, after petal fall and every two weeks thereafter.

**For Downy Mildew control only:** Apply 2-2/3 to 3 pints Cuproxat for each 100 gallons of spray mixture for the last two late summer applications following early season application of another fungicide. For exact timing, follow local recommendation for downy mildew infection.

**Dead Arm:** Use 3 pints Cuproxat plus 16 pounds of hydrated lime for each 100 gallons of spray mixture. Apply as soon as green tips show.

**HOLLYHOCKS: Leaf Spots, Leaf Blights:** See Ornamental Plants and Trees.

**HOPS: Downy Mildew:** Apply 2-2/3 pints as a fungicide crown treatment (after pruning but before training) as needed. After training, additional fungicide treatments are needed at about 10 day intervals. Discontinue use 2 weeks before harvest.

**IVY: Xanthomonas Leaf Spot:** See Ornamental Plants and Trees.

**KIWIFRUIT: Blossom Blight (Bud Rot), Leaf Spot (Phomopsis):** Make two to three applications at 2-2/3 to 4 pints per acre during dormant season. Do not apply at time of or after leaf emergence.

**KUMQUAT, LEMON, LIME:** See Citrus.

**LETTUCE: Anthracnose, Leaf Spots (Cercospora), Downy Mildew:** Spray 1-1/3 to 2-2/3 pints per acre before diseases appear. Repeat at 7 to 10 day intervals.

**LILAC: Bacterial Blights:** See Ornamental Plants and Trees.

**LILIES: Botrytis Blight:** See Ornamental Plants and Trees.

**LIVE OAK, Ball Moss (Texas only):** Apply at 8 pints per 100 gallons of water in spring after heavy rain. Use 2 to 5 gallons of spray per foot of tree height. Make sure to wet tufts thoroughly. A second application may be required after 12 months.

**MACADAMIA NUTS: Blossom Blight & Raceme Blight:** Apply 6 to 12 pints per acre depending upon disease pressure in 50 to 300 gallons of water during peak raceme development and bloom periods. For aerial application, apply 6 to 12 pints per acre in 10 to 30 gallons of water. DO NOT APPLY BY AIR IN CALIFORNIA.

**MANGO (Florida): Anthracnose:** Apply monthly after fruit set until harvest at 2-2/3 pints Cuproxat per 100 gallons. Consult Extension Service for recommendations.

**MAPLES: Leaf Spots:** See Ornamental Plants and Trees.

**MARIGOLDS: Leaf Spots:** See Ornamental Plants and Trees.

**NASTURTIUM: Anthracnose, Leaf Spots:** See Ornamental Plants and Trees.

**NECTARINES:** See Peaches.

**OAKS: Leaf Blister, (Taphrina):** See Ornamental Plants and Trees.

**OLIVES: Peacock Spot:** Make first application at 2-2/3 to 4 pints Cuproxat for each 100 gallons of spray mixture, before winter rains fall. A second application in early spring should be made if disease is severe.

**ONIONS: Downy Mildew, Leaf Spots:** Use 2-2/3 pints per acre. Begin as soon as plants grow to 4 to 6 inches; repeat every 7 days.

**ORANGES:** See Citrus.

**ORNAMENTAL PLANTS AND TREES: CAUTION:** Phytotoxicity may occur on certain varieties. Apply on a few plants at the recommended rate and observe for a few days to see if phytotoxicity will occur. On some varieties a discoloration may occur on foliage or blooms. To prevent residues on commercial plants, do not spray just before selling season. Apply 1-1/3 pints Cuproxat for each 100 gallons of spray mixture before diseases appear. Repeat every 7 to 10 days and after each rain.

**PACHYSANDRA: Volutella Leaf Blight:** See Ornamental Plants and Trees.

**PALMS: False Smut:** See Ornamental Plants and Trees.

**PANSIES: Downy Mildew:** See Ornamental Plants and Trees.

**PAPAYA: Anthracnose:** Use 2-1/2 pints per 100 gallons of water. Begin treatment before rains when disease is expected. Repeat at 10 to 14 day intervals during periods of heavy rainfall. Addition of a spreader sticker is desirable.

**PEACHES AND NECTARINES: Bacterial Disease (Blight) of Peaches, Leaf Curl, Shot Hole:** For dormant application, use 2-2/3 to 5-1/3 pints Cuproxat for each 100 gallons of

spray mixture during pink or red bud to popcorn stages. Do not apply during blossom stages or when tree is in leaf. Post-bloom (AL, AR, FL, GA, LA, MS, NC, OK, SC AND TX), apply 1/3 pint Cuproxat for each 100 gallons of spray mixture at first and second cover sprays. Do not use at rates above those recommended. CAUTION: Slight defoliation and spotting of leaves may occur from use in cover sprays.

**PEANUTS: Leaf Spot (Cercospora):** Begin spraying 40 to 45 days after planting or when first disease symptoms appear. Make ground or aerial application at 2 to 4 pints per acre. For aerial application, use 3 to 10 gallons of water. Continue applications at 10 to 14 day intervals. Use sufficient water to get adequate coverage. Cuproxat may be blended with flowable sulfur products.

**PEARS:** Do not use on Anjou, Comice or Seckel varieties after bloom through harvest, except as an emergency tree rescue treatment. Such emergency treatments may cause fruit russet. Limits per acre: 2 pints for Fire Blight, 5-1/3 pints pre-harvest, 20 pints post-harvest.

**Fire Blight (West of Mississippi River):** Apply 1/3 pint Cuproxat for each 100 gallons of spray mixture or 1-1/3 pints Cuproxat per acre at 5 day intervals throughout bloom period. Excessive dosages may cause fruit russet.

**Leaf Blight, Scab:** Use 1 pint Cuproxat plus 2-1/2 pounds hydrated lime for each 100 gallons of spray mixture. Spray at the first three cover sprays.

**Bull's Eye Rot:** Apply 3 pints Cuproxat for each 100 gallons of spray mixture plus a suitable spray oil before harvest.

**Pseudomonas Blight:** Apply at a rate of 16 to 20 pints per acre after harvest and before fall rains, and again in the dormant to delayed dormant period.

**PEAS: Powdery Mildew:** Begin spray treatment before disease symptoms first appear. Use at 2 to 4 pints per acre according to disease severity. Repeat applications at weekly intervals.

**PECANS: Scab:** Apply 2 pints Cuproxat for each 100 gallons of spray mixture as foliar spray. Begin applications at end break (2 to 3 inches long). Make second application at pre-pollination. Thereafter, repeat at 2 to 4 week intervals as needed to maintain control.

**PEONIES: Botrytis Blight, Leaf Spots:** See Ornamental Plants and Trees.

**PEPPERS: Anthracnose, Bacterial Spot, Early and Late Blight, Cercospora Leaf Spot (Frogeye Spot), Downy Mildew:** Spray in plant bed before disease appears. Continue in field at 7 to 10 day intervals, especially during fruiting stage. Use 2-2/3 to 4 pints per acre.

**PERIWINKLE, Phomopsis Stem Blight:** See Ornamental Plants and Trees.

**PHILODENDRON, Bacterial Leaf Spot:** Apply weekly before disease appears at 2 pints plus 1.5 pounds of a coordination product of maneb and zinc (80% active compound) per 100 gallons of water.

**PHLOX: Leaf Spots:** See Ornamental Plants and Trees.



**PINES: Brown Spot, Needle Blight:** See Ornamental Plants and Trees.

**PLUMS, PRUNES: Dormant spray for Brown Rot:** Apply 5 pints Cuproxat plus 1-1/2 gallons spreader for each 100 gallons of spray mixture in dormant season. LIMITS: 25 pints per acre.

**Black Knot:** Apply 2 to 3 pints Cuproxat plus 8 to 12 pounds hydrated lime for each 100 gallons of spray mixture at green tip stage. Repeat at shuckshed and in two cover sprays if disease is serious.

**Blossom Blight, Leaf Spots:** Apply 1-1/2 to 2-1/2 pints Cuproxat plus 6 to 10 pounds hydrated lime for each 100 gallons of spray mixture; spray just before blossoms open; repeat at shuck split and again in 2 to 3 weeks. Over-spraying may injure tender foliage of some Japanese plums.

**POTATOES: Early and Late Blight:** Apply at 7 day intervals starting when plants emerge until two weeks before harvest. Follow local recommendations for application timing (weather observation). Use 1-1/3 to 2-1/3 pints per acre in those locations where disease is light and up to 4 to 5-1/3 pints per acre where disease is more severe.

**PUMPKINS & SQUASH: Powdery Mildew:** Begin application when plants are three weeks old or when first disease symptoms appear. Use at weekly intervals at 2 to 4 pints per acre depending on disease severity.

**PYRACANTHA, Fireblight, Scab:** See Ornamental Plants and Trees.

**RHODODENDRONS: Leaf Blight, Leaf Spots:** See Ornamental Plants and Trees.

**ROSES: Anthracnose, Black Spot, Downy and Powdery Mildew, Leaf Spots, Stem Canker:** See Ornamental Plants and Trees.

**SPINACH: Anthracnose, Cercospora Leafspot, Downy Mildew, White Rust:** Apply 2-2/3 to 5-1/3 pints per acre. Begin treatment when disease first appears and repeat every 7 to 10 days as needed to suppress disease.

**STOCK: Leaf Spots:** See Ornamental Plants and Trees.

**STRAWBERRIES: Downy Mildew, Leaf Blight, Scorch or Spot:** After leaves form, spray 2-2/3 to 3 pints Cuproxat in 100 gallons of water per acre at 10 to 14 day intervals.

**Anthracnose:** Use 2-2/3 to 3 pints per acre plus 2 to 3 pounds hydrated lime/100 gallons pre-blossom. Post-harvest; spray foliage with 3 pints per acre plus 6 pounds hydrated lime per 100 gallons.

**SUGAR BEETS: (Cercospora) Leaf Spot:** Start spray when disease threatens and continue for 4 to 5 applications. Spray every 7 to 14 days depending on weather conditions at 2-2/3 to 6-2/3 pints per acre depending on disease severity. Addition of a suitable agricultural spray oil is recommended at 2 quarts per acre.

**SWEET PEAS: Downy Mildew, Leaf Blights, Leaf Spots:** See Peas.

**SYCAMORE: Anthracnose:** Make two applications using 2-2/3 to 4 pints per 100 gallons as a full cover spray. Make first application at bud crack and second application 7 to 14 days later at 10% leaf expansion.

**TANGERINE, TANGELO:** See Citrus.

**TOMATOES: Early Blight, Late Blight:** Start spraying before disease appears. Apply 2-2/3 to 4 pints per acre at 7 to 10 day intervals.

**Bacterial Speck:** Apply 2-2/3 pints per acre at 10 to 30 day intervals beginning when the disease threatens. Use more frequent applications when disease pressure is high.

**Anthracnose, Bacterial Spot:** When disease threatens, apply 2-2/3 to 5-1/3 pints per acre at 7 to 10 day intervals, more frequently when disease is severe. May be combined with maneb or mancozeb. When used in combination with maneb or mancozeb, do not apply within 5 days of harvest.

**TULIPS: Botrytis Blight:** See Ornamental Plants and Trees.

**VIOLETS: Downy Mildew:** See Ornamental Plants and Trees.

**VIRGINIA CREEPER: Downy Mildew:** See Ornamental Plants and Trees.

**WALNUT: Walnut Blight:** Apply first spray at early pre-bloom when catkins are partially expanded. Make three additional applications during bloom and early nutlet stages at 7 to 10 day intervals. Additional applications may be necessary when frequent rainfall occurs. Apply 2-2/3 to 4 pints Cuproxat for each 100 gallons of spray mixture.

**WHEAT & BARLEY: Septoria Leaf Blotch and Helminthosporum Spot Blotch:** Apply 2 to 2 2/3 pints per acre. Make first application at early heading and follow with second application 10 days later.

**YUCCA (Adams Needle): Cercospora & Septoria Leaf Spots:** See Ornamental Plants and Trees.

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