



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 23, 2023

Tasha Lott
Product Registration Manager
Albaugh, LLC
P.O. Box 2127
Valdosta, GA 31604

Subject: Registration Review Label Mitigation for Copper Compounds
Product Name: CUPROQUIM NU-COP 40DF
EPA Registration Number: 45002-23
Application Date: February 2, 2019
Decision Number: 593261

Dear Tasha Lott:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Copper Compounds Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently

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approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr via email at carr.caleb@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a long horizontal flourish extending to the right.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

CUPROQUIM NU-COP 40DF

COPPER OXYCHLORIDE DRY FLOWABLE

ACTIVE INGREDIENT:

Copper Oxychloride* 67.22%

INERT INGREDIENTS: 32.78%

TOTAL: 100.00%

*(Metallic copper equivalent 40%)
CAS No. 1332-65-6

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

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

FIRST AID

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 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.
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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER: For Medical Emergency or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call CHEM-TREC toll free at 1-800-424-9300.

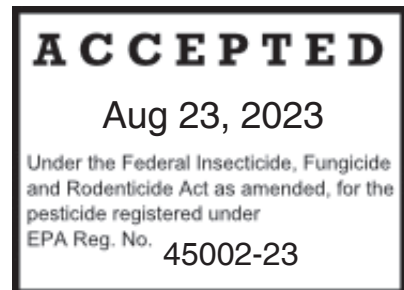
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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EPA Est. No. _____

NET CONTENTS: _____

Manufactured For:
Albaugh, LLC
1525 NE 36th Street
Ankeny, IA 50021



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage. 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.

PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, applicators and other handlers must wear the following:

1. Long-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks
4. Protective eyewear, such as face shield or goggles

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

ENGINEERING CONTROLS STATEMENT

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.

Pilots must use an enclosed cab that meets the definition in the WPS for agricultural pesticides [40 CFR 170.305].

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and change into clean clothing.
3. 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 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 washwater or rinsate.

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.

RESTRICTIONS

Pilots must use an enclosed cab that meets the definition listed in the WPS for agricultural pesticides [40 CFR 170.305].

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 pants
- Waterproof gloves
- Chemical resistant footwear plus socks
- Chemical resistant headgear if overhead exposure
- Protective eyewear

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.

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

MANDATORY SPRAY DRIFT

AERIAL APPLICATIONS:

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not release spray at a height greater than 10 ft. above the vegetative canopy of water, unless a greater application height is necessary for pilot safety.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speed exceeds 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions

GROUND BOOM APPLICATIONS:

- Apply with the spray release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).

- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

CONTROLLING DROPLET SIZE - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure- Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

CONTROLLING DROPLET SIZE - Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft. above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

PRODUCT INFORMATION

CUPROQUIM NU-CUP 40DF may be applied by aerial, or by dilute or concentrate ground sprayers on crops and at rates given on this label unless specifically prohibited for that crop use. Sufficient spray volume and spray pressure are essential to thoroughly penetrate the plant canopy and give thorough spray coverage at the times indicated. On crops sensitive to copper fungicides use the higher volumes of spray water per acre.

Use the higher dosage rates CUPROQUIM NU-CUP 40DF on mature trees, or when disease pressure is severe or weather conditions warrant.

When using adjuvants or other pesticides in combinations with this product, always observe the precautionary statements on the product's label and required days before harvest. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. Sprays of CUPROQUIM NU-CUP 40DF may be applied up to day of harvest. Residue is exempt from a residue tolerance.

Before mixing with other products in spray tank, be sure that products are compatible. CUPROQUIM NU-CUP 40DF should not be applied in spray water having a pH of less than 6.5 as phytotoxicity may result. Also avoid using water having a pH of greater than 9.0 as effectiveness may be reduced.

Do not use in greenhouses for food crops or ornamentals.

MINIMUM RECOMMENDED SPRAY VOLUME

in gallons per acre (GPA)

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

GROUND SPRAYS - CONCENTRATED AND DILUTE

Citrus - Concentrate: 100 GPA. (Florida 50 GPA).

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

Fruit and Nut Trees - Concentrate: 50 GPA.

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

Vegetable and Field Crops - Concentrate: 20 GPA.

Dilute: 100 to 125 GPA

AIR APPLICATION

Vegetable and Field Crops - Use 3 to 20 gallons per acre.

Tree Crops - Use 10 to 20 gallons per acre.

MIXING INSTRUCTIONS FOR SPRAY APPLICATION

Fill the spray tank one-fourth to one-third full with clean water. Start agitation (NOTE: Proper agitation creates a rippling or rolling action on the liquid surface). Add CUPROQUIM NU-CUP 40DF at the recommended rate.

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

CHEMIGATION INSTRUCTIONS

Do not apply this product through any irrigation system using aluminum parts or components as damage to the system may occur. Such application is prohibited regardless of whether the irrigation system is flushed with water after use of this product.

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s) which contain no aluminum parts or components. Do not apply this product through any other type of irrigation system. -Crop injury, or lack of effectiveness, can result from 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.

A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

Posting of areas to be chemigated is required when:

- 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or
- 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive area. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other locations affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to event deterioration and maintain legibility for the duration of the posting period.

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

SAFETY DEVICES

(1) The systems designated above 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. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. (3) 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. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. (5) 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. (6) 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. (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete 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.

For additional instructions on safety precautions refer to statements (2), (3), (4), (6), and (7) in the section on SAFETY DEVICES.

RESISTANCE MANAGEMENT

Copper Oxychloride - GROUP M01 FUNGICIDE

For resistance management, CUPROQUIM NU-COP 40DF contains copper oxychloride, a Group M01 fungicide with a multi-site contact activity. Any fungal/bacterial population may contain individuals naturally resistant to CUPROQUIM NU-COP 40 DF and other Group M01 fungicides/bactericides. A gradual or total loss of pest control may occur over time if these fungicides/bactericides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. Copper oxychloride is an inorganic non-systemic protectant compound which are generally considered as a low-risk of developing resistance.

Because CUPROQUIM NU-COP 40DF is a protective and not systemic fungicide, thorough coverage of the plant surface must be maintained. A gradual or total loss of control may occur over time if plant growth or weathering reduces the foliage coverage.

To delay fungicide/bactericide resistance, take one or more of the following steps

- Rotate the use of CUPROQUIM NU-COP 40DF or other Group M01 fungicides/bactericides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicide/bactericides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an IPM program for fungicide/bactericide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal/bacterial populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact your local Albaugh representative at 1-800-247-8013 or local extension specialist to report resistance.

SPECIFIC USE INSTRUCTIONS

{**Note to reviewer:** Registrant may add or remove as needed the following statement pertaining to a local use restriction: “[Not for use in _____]”. (e.g. Not for use in California).}

FROST INJURY PROTECTION:

Bacterial ice nucleation inhibitor - Application of CUPROQUIM NU-CUP 40DF to all crops listed on this label at rates and stages of growth indicated on this label at least 24 hours and not more than 72 hours prior to anticipated frost conditions, will afford control of ice nucleating bacteria (*Pseudomonas syringae*, *Erwinia herbicola*, and *Pseudomonas fluorescens*) and may thereby provide some protection against light frost. The degree of frost protection will vary with weather conditions and other factors. Not recommended for those geographical areas where weather conditions favor severe frost.

FRUIT AND NUT CROPS

ALMONDS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Dormant to Pink Bud Season: Coryneum Blight Blossom Brown Rot Bacterial Blast (<i>Pseudomonas</i>)	8.0 – 20.0 (3.2 - 8.0 lbs Cu/A)	7	Use at dormant to early pink bud. For blast control in sprinkler irrigated orchards or where disease is severe, apply 2-4 sprays or as many as required at 0.5 – 1.0 lbs per acre at 2 week post-bloom intervals or just before sprinkling. Slight leaf injury may occur from post-bloom spray.
Bloom/Growing Season: Coryneum Blight Blossom Brown Rot	2.0 – 3.75 (0.8 - 1.5 lbs Cu/A)	5	Use during the early bloom stage (popcorn). A second application in late dormant before foliage buds swell may be necessary when frequent rainfall occurs. To avoid plant injury, do not use above rate after full bloom.
RESTRICTIONS Maximum single dormant application rate is 20.0 lbs Product/Acre (8.0 lbs. metallic copper equivalent) Maximum single bloom/growing application rate is 3.75 lbs Product/Acre (1.5 lbs. metallic copper equivalent) Maximum annual application rate is 45.0 lbs Product/Acre (18.0 lbs metallic copper equivalent)			

APPLES			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Fall & Late Dormant: Anthracnose European Canker <i>Pseudomonas Syringae</i>	10.0 – 15.0 (4.0 - 6.0 lbs Cu/A)	Only one dormant application allowed per season	Apply before fall rains. Use on yellow varieties may cause discoloration. To avoid, pick before spraying.
	10.0 - 15.0 (4.0 - 6.0 lbs Cu/A)		Apply between silver-tip and green-tip. ATTENTION: Phytotoxicity may occur from late application (discontinue use when green-tip is 1/2 inch).
Bloom & Growing Season: Fireblight	1.0 – 1.25 (0.4 - 0.5 lbs Cu/A)	5	Begin spray at 10% bloom and repeat at 5 day intervals until late bloom is over. ATTENTION: Phytotoxicity may occur from late application (Discontinue use when green-tip is 1/2 inch.)
Crown or Collar Rot (<i>Phytophthora cactorum</i>)	N/A	5	Apply either in early spring or in fall after harvest each year.

APPLES			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
			Do not use if soil pH is below 5.5 or copper toxicity may result. Mix 0.5 lb (0.2 lbs Cu) in 100 gallons of water. Apply 4 gallons of suspension as a drench on the lower trunk area of each tree.
RESTRICTIONS Maximum single dormant season application rate is 15.0 lbs Product/Acre (6.0 lbs. metallic copper equivalent) Maximum single growing season application rate is 1.25 lbs Product/Acre (0.5 lbs. metallic copper equivalent) Maximum annual application rate is 40.0 lbs Product/Acre (16.0 lbs. metallic copper equivalent)			

APRICOTS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Dormant Season: Coryneum Blight Blossom Brown Rot Bacterial Blast (Pseudomonas)	8.0 – 20.0 (3.2 - 8.0 lbs Cu/A)	Only one dormant application allowed per season	Apply in fall dormant, and repeat at popcorn to full bloom.
Bloom/Growing Season: Coryneum Blight (Shot Hole) Blossom Brown Rot Twig Blight	2.0 – 3.75 (0.8 - 1.5 lbs Cu/A)	5	
RESTRICTIONS Maximum single dormant season application rate is 20.0 lbs Product/Acre (8.0 lbs. metallic copper equivalent) Maximum single growing season application rate is 3.75 lbs Product/Acre (1.5 lbs. metallic copper equivalent) Maximum annual application rate is 45.0 lbs Product/Acre (18.0 lbs. metallic copper equivalent)			

AVOCADOS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Scab	6.0 – 7.75 (2.4 - 3.1 lbs Cu/A)	14	Apply when bloom buds begin to swell. Use the higher rate when conditions favor disease. Continue application at 14 – 28 day intervals for 5 to 6 applications. Follow recommendations of State Agricultural Experiment Stations.
RESTRICTIONS Maximum single application rate is 7.75 lbs Product/Acre (3.1 lbs metallic copper equivalent) Maximum annual application rate is 46.5 lbs Product/Acre (18.6 lbs metallic copper equivalent)			

BANANAS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Sigatoka	1.5 – 2.5 (0.6 - 1.0 lbs Cu/A)	7	Apply on a 7 - 14 day schedule throughout the wet season. Apply at 21 day intervals during dry periods.
Black Pitting	2.5 (1.0 lbs Cu/A)	7	Apply directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after emergence.
RESTRICTIONS Maximum single application rate is 2.5 lbs Product/Acre (1.0 lbs metallic copper equivalent) Maximum annual application rate is 47.25 lbs Product/Acre (18.9 lbs metallic copper equivalent)			

BRAMBLES (Aurora, Blackberry, Boysens, Cascasde, Chehalem, Logan, Marions, Raspberry, Santiam, & Thornless Evergreens)			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Leaf & Cane Spot	3.0 – 5.0 (1.2 - 2.0 lbs Cu/A)	7	Apply delayed dormant spray after training in spring. Apply again in late spring. Make fall spray application after harvest.
RESTRICTIONS Maximum single application rate is 5.0 lbs Product/Acre (2.0 lbs metallic copper equivalent) Maximum annual application rate is 25.0 lbs Product/Acre (10.0 lbs metallic copper equivalent)			

CACAO			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Black Pod	3.0 – 5.6 (1.2 - 2.24 lbs Cu/A)	14	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 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 0.75 – 2.25 lbs per acre, according to disease incidence and planting density.
RESTRICTIONS Maximum single application rate is 5.6 lbs Product/Acre (2.25 lbs metallic copper equivalent)			

Maximum annual application rate is 39.2 lbs Product/Acre (15.75 lbs metallic copper equivalent)

CHERRY			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Dormant & Late Bloom Season: Blossom blight, Brown rot, Twig blight and Leaf spot	8.0 – 20.0 (3.2 - 8.0 lbs Cu/A)	7	In orchards where the disease is severe a spray should also be applied shortly after harvest.
Bloom & Growing Season: Brown Rot Blossom	2.0 – 3.75 (0.8 - 1.5 lbs Cu/A)	5	Apply at popcorn and full bloom. Do not apply after petal fall stage.
RESTRICTIONS Maximum single dormant season application rate is 20.0 lbs Product/Acre (8.0 lbs metallic copper equivalent) Maximum single growing season application rate is 3.75 lbs Product/Acre (1.5 lbs metallic copper equivalent) Maximum annual application rate is 45.0 lbs Product/Acre (18.0 lbs metallic copper equivalent)			

CITRUS (Grapefruit, Kumquat, Lemon, Orange, Pummelo, Tangelo, Tangerine & Lime)			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Melanose Scab Pink Pitting	6.0 – 7.75 (2.4 - 3.1 lbs Cu/A)	7	Apply at beginning of dormant season. Repeat at 2/3 petal fall, and again when fruit is 1/2 inch in diameter, and as necessary thereafter.
Greasy Spot	3.0 – 6.0 (1.2 - 2.4 lbs Cu/A)		
Phytophthora Brown Rot	See comment	7	Use 0.5 to 1.5 lbs product (0.2 - 0.6 lbs Cu) per 100 gallons in dilute spray, applying 6 gallons per tree to the lower 3-4 feet of tree skirt and to the bare ground under tree and one foot beyond the tree line before fall rains. Use 2 - 4 gallons per tree in January or February depending upon the amount of rain during this period. Addition of spreader-sticker adjuvant may increase the effectiveness of the treatment.
RESTRICTIONS Maximum single application rate is 7.75 lbs product/Acre (3.1 lbs metallic copper equivalent) Maximum annual application rate is 31.0 lbs Product/Acre (12.4 lbs metallic copper equivalent)			

COFFEE			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Iron Spot (<i>Cercospora coffeicola</i>) & Pink Disease (<i>Corticium salmonicolor</i>)	3.0 – 5.0 (1.2 - 2.0 lbs Cu/A)	14	Begin treatment at start of wet season and continue at 14 – 28 day intervals for three applications.
Leaf Rust	4.0 – 5.0	14	Apply before the onset of rain and then

	(1.6 - 2.0 lbs Cu/A)		at 14 - 21 day intervals while rains continue. Use higher rates when rainfall is heavy and disease pressure is high.
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RESTRICTIONS
Maximum single application rate is 5.0 lbs Product/Acre (2.0 lbs metallic copper equivalent)
Maximum annual application rate is 30.0 lbs Product/Acre (12.0 lbs metallic copper equivalent)

FILBERTS
(For Use in Washington State and Oregon Only)

DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Bacterial Blight (Post Harvest application)	12.0 – 15.0 (4.8 - 6.0 lbs Cu/A)	14	Apply post-harvest in late August or early September before first heavy fall rain. If heavy fall rains occur, repeat spray after 3/4 leaves have dropped. If weather conditions require, a spreader-sticker may be added.

RESTRICTIONS
Maximum single application rate is 15.0 lbs Product/Acre (6.0 lbs metallic copper equivalent)
Maximum annual application rate is 60.0 lbs Product/Acre (24.0 lbs metallic copper equivalent)

MANGO

DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Anthrachnose	5.0 - 6.5 (2.0 - 2.6 lbs Cu/A)	30	Begin spray treatment when panicles are about 2 inches long. Repeat sprays monthly through September for a total of 5-7 applications, depending upon area.

RESTRICTIONS
Maximum single application rate is 6.5 lbs Product/Acre (2.6 lbs metallic copper equivalent)
Maximum annual application rate is 45.5 lbs Product/Acre (18.2 lbs metallic copper equivalent)

OLIVES

DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Peacock Spot Olive Knot	5.0 - 7.5 (2.0 - 3.0 lbs Cu/A)	30	Apply as a dilute spray before winter rains fall. A second application in early spring should be made if disease is severe.

RESTRICTIONS
Maximum single application rate is 7.5 lbs Product/Acre (3.0 lbs metallic copper equivalent)
Maximum annual application rate is 15.0 lbs Product/Acre (6.0 lbs metallic copper equivalent)

PAPAYA

DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Anthrachnose	4.0 - 6.5	14	Begin application before disease is

	(1.6 - 2.6 lbs Cu/A)		<p>expected to appear.</p> <p>Repeat at 14 day intervals. Use the higher rates when conditions favor disease.</p> <p>The addition of a suitable spreader-sticker may be desirable during periods of heavy rains.</p>
RESTRICTIONS Maximum single application rate is 6.5 lbs Product/Acre (2.6 lbs metallic copper equivalent) Maximum annual application rate is 52.5 lbs Product/Acre (21.0 lbs metallic copper equivalent)			

PECANS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Shuck and Kernel rot (Phytophthora cactorum)	2.0 – 5.0 (0.8 - 2.0 lbs Cu/A)	14	Apply in sufficient water for good coverage at 14 – 28 day intervals starting at kernel growth and continuing until shucks open.
Zonate leaf spot (Cristulariella pyramidalis)			Use the higher rate and shorter intervals if frequent rainfall occurs.
Mosses Algae Lichen	See Comment	Make only one application per year	Mix 4 lbs product (1.6 lbs Cu) per 100 gallons spray plus spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.
RESTRICTIONS Maximum single application rate is 5.0 lbs Product/Acre (2.0 lbs metallic copper equivalent) Maximum annual application rate is 15.75 lbs Product/Acre (6.3 lbs metallic copper equivalent)			

PEACHES & NECTARINES			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Dormant: Leaf Curl Coryneum Blight (Shot Hole) Peach Blight Bacterial Spot	8.0 – 20.0 (3.2 - 8.0 lbs Cu/A)	7	Apply in fall dormant period before rains begin. Repeat in spring before foliage buds begin to swell if needed. Use the higher rate when rainfall is very heavy and disease pressure is high. May be used with an agricultural spray oil.
Bloom & Growing Season: Brown Rot Blossom Blight	8.0 – 12.0 (3.2 - 4.8 lbs Cu/A)	5	Apply in full cover spray before buds swell and again at pink bud, but before leaves emerge.
NOTE: Application in cover sprays may cause some leaf spotting and defoliation and shedding of some fruits. If applied within three weeks of harvest, some fruit spotting may also occur.			
RESTRICTIONS Maximum single dormant season application rate is 20.0 lbs Product/Acre (8.0 lbs metallic copper equivalent) Maximum single growing season application rate is 3.75 lbs Product/Acre (1.5 lbs metallic copper equivalent) Maximum annual application rate is 45.0 lbs Product/Acre (18.0 metallic copper equivalent)			

PLUMS & PRUNES			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Dormant Season: Coryneum Blight (Shot hole)	8.0 – 20.0 (3.2 - 8.0 lbs Cu/A)	7	Apply as a dormant spray before fall rains. Use the higher rate when rainfall is heavy and/or disease pressure is high.
Bloom & Growing Season: Brown Rot Blossom Blight Twig Blight	2.0 – 3.75 (0.8 - 1.5 lbs Cu/A)	5	Apply full cover application at pink, red or early white bud stage. Use the higher rate when disease pressure is heavy or conditions favor disease development.
RESTRICTIONS Maximum single dormant season application rate is 20.0 lbs Product/Acre (8.0 lbs metallic copper equivalent) Maximum single growing season application rate is 3.75 lbs Product/Acre (1.5 lbs metallic copper equivalent) Maximum annual application rate is 45.0 lbs Product/A (18.0 lbs metallic copper equivalent)			

STRAWBERRIES			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Downy Mildew Leaf Spot Leaf Blight	2.0 - 3.75 (0.8 - 1.5 lbs Cu/A)	7	Begin application when plants are established and continue on a 7 – 14 day schedule throughout season. Discontinue applications if signs of phytotoxicity appear.
RESTRICTIONS Maximum single application rate is 3.75 lbs Product/Acre (1.5 lbs metallic copper equivalent) Maximum annual application rate is <u>15.0</u> lbs Product/Acre (<u>6.0</u> lbs metallic copper equivalent)			

WALNUTS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Walnut Blight	6.0 – 7.5 (2.4 - 3.0 lbs Cu/A)	7	Apply first spray at early pre-bloom when catkins are partially expanded. Make additional applications during bloom and early nutlet stages at 7 - 10 day intervals. Additional applications may be necessary when frequent rainfall occurs.
RESTRICTIONS Maximum single application rate is 7.5 lbs Product/Acre (3.0 lbs metallic copper equivalent) Maximum annual application rate is 62.5 lbs Product/Acre (25.0 lbs metallic copper equivalent)			

VEGETABLE AND FIELD CROPS

BEANS (Dry, Green)			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Angular Leaf Spot Anthracnose Bacterial Blights Downy Mildew	1.0 – 1.75 (0.4 - 0.7 lbs Cu/A)	7	Begin spraying when plants have second trifoliolate leaf set (when plants are about 5 inches tall), or before disease first appears. Apply on 7 - 14 day schedule depending on local conditions.
RESTRICTIONS Maximum single application rate is 1.75 lbs Product/Acre (0.7 lbs. metallic copper equivalent) Maximum annual application rate is 11.75 lbs Product/Acre (4.7 lbs metallic copper equivalent)			

SUGAR BEETS & TABLE BEETS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Downy Mildew Leaf Blight Leaf Spot	2.0 – 3.25 (0.8 - 1.3 lbs Cu/A)	10	Start spray when disease threatens and continue for 4 to 5 applications. Spray every 10 to 14 days depending on weather conditions.
RESTRICTIONS Maximum single application rate is 3.25 lbs Product/Acre (1.3 lbs metallic copper equivalent) Maximum annual application rate is 19.5 lbs Product/Acre (7.8 lbs metallic copper equivalent)			

CARROTS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Carrot Blight (Cercospora)	2.0 – 2.5 (0.8 - 1.0 lbs Cu/A)	7	When disease threatens, apply at 7 - 10 day intervals.
RESTRICTIONS Maximum single application rate is 2.5 lbs Product/Acre (1.0 lbs metallic copper equivalent) Maximum annual application rate is 12.5 lbs Product/Acre (5.0 lbs metallic copper equivalent)			

CUCURBITS (Cantaloupes, Casaba, Chayote, Cucumber, Guard, Honeydew, Muskmelon, Pumpkin, Squash & Watermelon)			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Angular Leaf Spot Anthracnose Downy Mildew Scab Watermelon Bacterial Fruit Blotch (suppression)	2.0 – 2.5 (0.8 - 1.0 lbs Cu/A)	5	Begin application when conditions are favorable for disease development. Repeat at 5 - 10 day intervals. Use higher rates and shorter spray interval when conditions favor disease.
RESTRICTIONS Maximum single application rate is 2.5 lbs Product/Acre (1.0 lbs metallic copper equivalent) Maximum annual application rate is 12.5 lbs Product/Acre (5.0 lbs metallic copper equivalent)			

CELERY & CELERIAC			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Early, Late & Bacterial Blights	2.0 - 2.5 (0.8 - 1.0 lbs Cu/A)	7	Apply as soon as plants are first established in the field, then every 7 - 10 days depending on severity and weather.
RESTRICTIONS Maximum single application rate is 2.5 lbs Product/Acre (1.0 lbs metallic copper equivalent) Maximum annual application rate is 12.5 lbs Product/Acre (5.0 lbs metallic copper equivalent)			

EGGPLANT			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Alternaria Blight Anthracnose Phomopsis	1.0 – 1.9 (0.4 - 0.76 lbs Cu/A)	7	Apply before disease appears. Repeat at 7 to 10 day intervals.
RESTRICTIONS Maximum single application rate is 1.9 lbs Product/Acre (0.76 lbs metallic copper equivalent) Maximum annual application rate is 19.75 lbs Product/Acre (7.9 lbs metallic copper equivalent)			

ONION & GARLIC			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Purple Blotch Downy Mildew	2.0 – 2.5 (0.8 - 1.0 lbs Cu/A)	7	Apply when plants are 4 to 6 inches high and repeat at 7 - 10 day intervals.
RESTRICTIONS Maximum single application rate is 2.5 lbs Product/Acre (1.0 lbs metallic copper equivalent) Maximum annual application rate is 15.0 lbs Product/Acre (6.0 lbs metallic copper equivalent)			

PEANUTS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Cercospora Leaf Spot	1.0 – 1.9 (0.4 - 0.76 lbs Cu/A)	7	Begin spraying 25 - 40 days after planting or when disease symptoms appear. Use sufficient water to get adequate coverage. Continue applications at 7 - 14 day intervals. Use higher rates or reduced spray intervals when conditions favor disease.
RESTRICTIONS Maximum single application rate is 1.9 lbs Product/Acre (0.76 lbs metallic copper equivalent) Maximum annual application rate is 11.4 lbs Product/Acre (4.56 metallic copper equivalent)			

PEAS

DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Powdery Mildew	1.0 – 1.9 (0.4 - 0.76 lbs Cu/A)	7	Begin spray treatment when disease symptoms first appear. Repeat applications at weekly intervals.
RESTRICTIONS Maximum single application rate is 1.9 lbs Product/Acre (0.76 lbs metallic copper equivalent) Maximum annual application rate is 9.5/A (3.8 lbs metallic copper equivalent)			

PEPPERS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Bacterial Spot	1.0 – 1.9 (0.4 - 0.76 lbs Cu/A)	3	Start sprays in seed bed or field before disease first appears and usually right after transplanting. Repeat every 3-10 days in field and especially during fruiting stages.
RESTRICTIONS Maximum single application rate is 1.9 lbs Product/Acre (0.76 lbs metallic copper equivalent) Maximum annual application rate is 28.5 lbs Product/Acre (11.4 lbs metallic copper equivalent)			

POTATOES			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Early & Late Blight	3.0 – 6.25 (1.2 - 2.5 lbs Cu/A)	5	Apply at 5 - 10 day intervals beginning when plants are 4 - 6 inches high until two weeks before harvest.
RESTRICTIONS Maximum single application rate is 6.25 lbs Product/Acre (2.5 lbs metallic copper equivalent) Maximum annual application rate is 62.5 lbs Product/Acre (25 lbs metallic copper equivalent)			

TOMATOES (Processing Market)			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Early Blight Bacterial Speck Bacterial Spot Anthracnose Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot Late Blight	1.0 – 1.25 (0.4 - 0.5 lbs Cu/A)	3	Begin in seed bed and repeat at 3-7 day intervals after first leaves appear. In the field, especially where Bacterial spot or speck infections are usually heavy, begin spray after transplanting or when disease is first expected and repeat at 4-7 day intervals.
RESTRICTIONS Maximum single application rate is 1.25 lbs Product/Acre (0.5 lbs metallic copper equivalent) Maximum annual application rate is 43.5 lbs Product/Acre (17.4 lbs metallic copper equivalent)			

TOMATOES (Fresh Market)			
DISEASE	APPLICATION RATE	MINIMUM DAYS	COMMENT

	(lbs of product/Acre)	RETREATMENT INTERVAL	
Early Blight Bacterial Speck Bacterial Spot Anthracnose Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot Late Blight	4.0 (1.6 lbs of metallic copper equivalent)	3	When disease threatens, apply at 7 - 10 day intervals, more frequently when disease is severe.
RESTRICTIONS Maximum single application rate is 4.0 lb/A (1.6 lbs metallic copper equivalent) Maximum annual application rate is 20.0 lbs/A (8.0 lbs metallic copper equivalent)			

WHEAT, BARLEY & OATS			
DISEASE	APPLICATION RATE (lbs Product/Acre)	MINIMUM DAYS RETREATMENT INTERVAL	COMMENT
Septoria Leaf Blotch Helminthosporium Spot Blotch	1.25 (0.5 lbs Cu/A)	10	Make first application at early heading and follow with second application 10 days later.
RESTRICTIONS Maximum single application rate is 1.25 lbs Product/Acre (0.50 lbs metallic copper equivalent) Maximum annual application rate is 2.5 lbs Product/Acre (1.0 lbs metallic copper equivalent)			

ORNAMENTALS

Notice to User: Plant sensitivities to NuCop 40DF have been found to be acceptable in specific genera and species listed on this label; however, 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 NuCop 40DF. Neither the manufacturer nor seller has determined whether or not NuCop 40DF can be safely used on ornamental or nursery plants not listed on this label. The user should determine if NuCop 40DF can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e., bedding plants, foliage, etc., and observe for 7-10 days for symptoms of phytotoxicity prior to commercial use.

Use NuCop 40DF on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, for professional use on ornamentals grown for indoor and outdoor landscaping, and for control of bacterial and fungal diseases of foliage, flowers and stems.

Apply as a thorough coverage spray using 1.5 lbs product (0.6 lbs Cu) per 100 gallons of water. Begin application at first sign of disease and repeat at 7 to 14 day intervals as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist.

NuCop 40DF may be used as a maintenance spray alone or in combination with other fungicides such as the dithiocarbamates.

Restrictions:

Maximum single application rate is 5.0 lbs Product/Acre (2.0 lbs metallic copper equivalent)
Maximum annual application rate is 50.0 lbs Product/Acre (20 lbs metallic copper equivalent)

ORNAMENTAL/DISEASES:

Althea (Rose of Sharon)/Bacterial Leaf Spot
Aralia/Xanthomonas & Cercospora Leaf Spots, Alternaria
Arborvitae/Alternaria Twig Blight, Cercospora Leaf Blight
Azalea*/Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback & Powdery Mildew
Begonia/Xanthomonas Leaf Spot, Anthracnose
Bougainvillea/Anthracnose, Bacterial Leaf Spot

Bulbs (Easter Lily**, Tulip, Gladiolus)/Anthracnose, Botrytis Blight
 Camellia/Anthracnose, Bacterial Leaf Spot
 Camphor Tree/Pseudomonas Leaf Spot
 Canna/Pseudomonas Leaf Spot
 Carnation*/Alternaria Blight, Pseudomonas Leaf Spot, & Botrytis Blight
 Chinese Tallow Tree/Bacterial Leaf Spot (Xanthomonas sp., Pseudomonas sp.)
 Chrysanthemum*/Septoria Leaf Spot & Botrytis Blight
 Cotoneaster/Botrytis Blight
 Dahlia/Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
 Date Palm/Pestalotia Leaf Spot
 Dianthus/Bacterial Spot, Bacterial Soft Rot
 Dogwood/Anthracnose
 Dusty Miller/Bacterial Leaf Spot (Pseudomonas cichorii)
 Echinacea/Bacterial Leaf Spot (Pseudomonas cichorii)
 Elm "Drake"/Xanthomonas Leaf Spot
 Euonymus/Botrytis Blight & Anthracnose
 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, Botrytis Gray Mold, Bacterial Leaf Blight
 Golden Rain Tree/Bacterial Leaf Spot
 Hibiscus/Bacterial Leaf Spot
 Holly Fern/Pseudomonas Leaf Spot
 Impatiens/Bacterial Leaf Spot
 India hawthorn (greenhouse)/Entomosporium Leaf Spot
 Ivy*/Xanthomonas Leaf Spot
 Ixora/Xanthomonas Leaf Spot
 Juniper (Eastern Red Cedar)/Anthracnose
 Lantana/Bacterial Leaf Spot
 Lilac/Cercospora Leaf Spot
 Loblolly Bay/Anthracnose
 Loquat/Entomosporium maculata, Colletotrichum sp.
 Magnolia (Southern)/Algal Leaf Spot, Anthracnose, Bacterial Leaf Spot
 Mandevillas/Anthracnose
 Marigold/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 (Red Tip)/Anthracnose, Entomosporium Leaf Spot
 Pistachio/Anthracnose
 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*/Powdery Mildew, Black Spot
 Verbena/Xanthomonas Leaf Spot
 Viburnum/Anthracnose

Washingtonia Palm/Pestalotia Leaf Spot
Weeping Willow/Anthracnose
Yucca (Adams Needle)/Cercospora & Septoria Leaf Spot

*Discoloration of foliage and/or blooms have been noted on some varieties. To prevent residues on commercial plants, do not spray just before selling season.

**For Easter Lily, use 2.0 – 6.25 lbs product (0.8 - 2.5 lbs Cu) per 100 gallons.

Restrictions (Easter Lily):

Maximum single application rate is 6.25 lbs Product/Acre (2.5 lbs metallic copper equivalent)

Maximum annual application rate is 187.5 lbs Product/Acre (75 lbs metallic copper equivalent)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal of this product.

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

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

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Completely empty container into application equipment by shaking and tapping sides and bottom to loosen clinging particles. When completely empty, offer for recycling if available, or dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale – Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Albaugh, LLC (the "Company") or seller to the extent consistent with applicable law.

In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, to the extent consistent with applicable law, at Albaugh's election, one of the following:

1. Refund of the purchase price paid by the buyer or user for product bought, or
2. Replacement of the product used.

To the extent consistent with applicable law, the Company shall not be liable and any claims against the Company are waived for special, indirect, incidental, or consequential damages or expenses of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the forgoing conditions of sale and limitation of warranty, liability and remedies.

01112022

LABEL HISTORY
(Not included in final printed label)

File Name	Version Mark	Comment
045002-23.20211129.DRAFT	112921	(e) Label Revisions (PID)
045002-23.20220111.DRAFT	011122	(e) Label Revisions (PID)