



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs

Registration Division (7505T)

1200 Pennsylvania Ave., N.W.

Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

35484-10

Date of Issuance:

2/12/26

Term of Issuance:

Unconditional

Name of Pesticide Product:

COHVAL 50 DF

Name and Address of Registrant (include ZIP Code):

Industrias Quimicas del Valles, S.A.

Rafael Casanova 81

08100 Mollet del Valles, Spain

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

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

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Kristy Crews, Ph.D., Product Manager 22

Fungicide Branch, Registration Division (7505T)

Date:

2/12/26

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 35484-10."
3. Submit one copy of the final printed label for the record before you release the product for shipment.

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 FIFRA 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) lists 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 06/26/2023

If you have any questions, please contact Elisha Graham at graham.elisha@epa.gov.

Enclosure

02/12/2026

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 35484-10

COPPER

GROUP

M1

FUNGICIDE

COHVAL 50 DF

Fungicide and Bactericide



For Organic Production

Active Ingredient:

Copper Hydroxide*79.40%

Other Ingredients:.....20.60%

Total: 100.00%

*Metallic Copper Equivalent - 50%

*CAS No. 20427-59-2

KEEP OUT OF REACH OF CHILDREN

WARNING - PRECAUCIÓN

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.)

[See First Aid Statements on the back/side panel]

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 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.
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.
HOT LINE NUMBER	
EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378. Monday - Friday, 8:00 am to 12:00 pm Pacific Time (NPIC Web site: www.npic.orst.edu) or the Poison Help Line 24 hours a day, seven days a week at 1-800-222-1222.	
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.	
<i>See side/back panels for additional precautionary statements. [20 pound packaging]</i> <i>See additional precautionary statements on back panel and leaflet and directions for use in leaflet. [20 pound packaging]</i>	

EPA Reg. No. 35484-RN

EPA Est. No. 35484-ESP-01

Net Contents: 20 pound

Industrias Químicas del Valles, SA



Avda. Rafael Casanova 81 08100
Mollet del Valles, Spain

P.O. Box 5126 Valdosta,
GA 31603-5126

(229) 460-0910



PRECAUTIONARY STATEMENTS

WARNING

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if inhaled. **DO NOT** get in eyes or on clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PHYSICAL-CHEMICAL HAZARDS

DO NOT mix or allow coming in contact with Oxidizing agents. Hazardous Chemical reaction may occur.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- Long-Sleeved Shirt
- Long Pants
- Shoes Plus Socks
- Chemical Resistant Gloves Made of: Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Natural Rubber ≥ 14 mils, Polyethylene, Polyvinyl Chloride ≥ 14 mils, Or Viton ≥ 14 mils.
- Protective eyewear

Some materials that are chemical-resistant to this product are polyethylene, polyvinyl chloride, barrier-laminate, and butyl, nitrile, neoprene, and natural rubber. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

USER SAFETY REQUIREMENTS

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

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Engineering Controls

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

USER SAFETY RECOMMENDATIONS

- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Users should 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

Fish Advisory Statement: This pesticide is toxic to fish and aquatic organisms. Unlike most organic pesticides, copper is an element and will not break down in the environment and will therefore accumulate in sediment with repeated applications. Copper is a micronutrient, but its pesticidal application rate exceeds the amount of copper needed as a nutrient.

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.

For terrestrial uses: 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, other persons, adults, children, or pets either directly or through drift. Only protected handlers may be in the area during application. For requirements specific to your State or Tribe, consult the State or Tribe agency responsible for pesticide regulations.

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 (REI). 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.

The restricted entry interval for greenhouses may be reduced to 24 hours (REI), provided that the following conditions are met:

For at least seven days following the application of copper-containing products in greenhouses:

- At least one container or station designed specifically for flushing eyes is available in operating conditions with the WPS- required decontamination supplies for workers entering the area treated with copper-containing products,
- Workers are informed orally in a manner they can understand:
 - That residues in the treated area may be highly irritating to their eyes,
 - That they must take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes,
 - That if they do get residues in their eyes, they must immediately flush their eyes with the eye flush container that is located with the decontamination supplies and
 - How to operate the eye flush container or eye flush station.

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
- Chemical resistant gloves made of Barrier Laminate, Butyl Rubber ≥14 mils, Nitrile Rubber ≥14 mils, Neoprene Rubber ≥14 mils, Natural Rubber ≥14 mils, Polyethylene, Polyvinyl Chloride ≥14 mils, Or Viton ≥14 mils.
- Shoes plus socks
- Protective eyewear

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

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.

PRODUCT INSTRUCTIONS

COHVAL 50 DF may be applied as an aerial, ground dilute or ground concentrate spray unless specifically directed otherwise in the specific crop use directions.

The per acre use rate of COHVAL 50 DF is applicable for both dilute and concentrate spraying. Depending upon the equipment used and the specific crop, the spray volume applied per acre will differ. Refer to Minimum Spray Volume Table. Complete spray coverage is essential to assure optimum performance from COHVAL 50 DF. When treating by aerial application or with low volume application equipment, unless you have had specific previous experience, it is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial utilization. Consult the COHVAL 50 DF label for specific rates and timing of application by crop. Where application rates and intervals are provided in a range (e.g. 4 to 12 pounds and 7 to 10 days), the higher rates and shorter spray intervals may be used when rainfall is heavy and/or disease pressure is high. Use the higher rates for large mature tree crops.

SPECIAL PRECAUTIONS

- The Pre-Harvest Interval (PHI) for COHVAL 50 DF is 0 days unless otherwise noted.
- If COHVAL 50 DF is applied in a spray solution having a pH of less than 6.5, phytotoxicity may occur.
- **DO NOT** tank mix COHVAL 50 DF with "Aliette" fungicide for use on any registered crops unless appropriate precautions have been taken to buffer the spray solution because severe phytotoxicity may result. Use in accordance with the most restrictive of label limitations and precautions. **DO NOT** exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.
- This product may be reactive on masonry and metal surfaces such as galvanized roofing. Avoid contact with metal surfaces. **DO NOT** spray on cars, houses, lawn furniture, or other metallic surfaces.
- Environmental conditions such as extended periods of wet weather, acid rain, etc. which alter the pH of the leaf surface may affect the performance of COHVAL 50 DF resulting in possible phytotoxicity or loss of effectiveness.
- Agricultural chemicals may perform in an unpredictable manner when tank mixed, especially where several products are involved. Reduced effect on pests or crop injury may occur. Unless specified on this label or by a state/local expert, it is advisable to test for compatibility and potential crop injury prior to commercial use of a new tank mix.
- It must be determined if proper application equipment is available and if waste associated with its use can be properly handled. Agricultural chemicals are often reactive with the materials used in the construction of application equipment, such as aluminum, rubber and some synthetic materials. This factor must be taken into consideration when selecting proper application equipment. It is necessary that all application equipment be thoroughly flushed with clean water after each day's use.
- Apply this product only through one or more of the following types of systems: sprinkler, including center pivot, lateral move, traveler, big gun, or plastic pipe solid set system(s). **DO NOT** apply this product through any other type of irrigation system. **DO NOT** apply in systems which contain aluminum parts or components.
- While volume is important in obtaining full spray coverage, often factors such as foliage density, environmental conditions and sprayer calibration have a greater impact. Always be sure that sprayers are calibrated to spray equipment manufacturer's specifications and environmental conditions are within those specified by State and local regulatory authorities.
- When mixing, fill the spray tank one-half full with water. Add COHVAL 50 DF slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Spreaders, stickers, insecticides, nutrients, etc. must be added last. If compatibility is in question, use the Compatibility Jar Test before mixing a whole tank or contact your chemical supplier. Observe all precautions and limitations on the labels of all products used in mixtures.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, COHVAL 50 DF contains a Group M1 fungicide. Any fungal population may contain individuals naturally resistant to COHVAL 50 DF and other Group M1 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of COHVAL 50 DF or other Group M1 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides 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 integrated disease management program for fungicide 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 developments, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal 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 pesticide distributor or university extension specialist to report resistance.

MANDATORY SPRAY DRIFT

Aerial Applications:

- **DO NOT** release spray at a height greater than 10 ft. above the vegetative canopy or water, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- **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.
- Applicators must use ½ swath displacement upwind at the downwind edge of the application area.
- **DO NOT** apply during temperature inversions.

Groundboom Applications:

- Apply with the spray release height recommended by the manufacturer, but no more than 4 feet above the ground 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 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 aerially 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.

Other State and Local Requirements

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

CHEMIGATION INSTRUCTIONS

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). **DO NOT** apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from

non-uniform distribution of treated water. If you have questions about calibration, contact the 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 if the need arises.

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 areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign must 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 material to prevent deterioration and maintain legibility for the duration of the posting period. 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". All words shall consist of letters at least 2 ½ inches tall, and all letters and the symbol shall be a color that sharply contrasts with their immediate background. This sign is in addition to any sign posted to comply with the Worker Protection Standard.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. There shall be a complete physical break (air gap) between the flow 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 pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. See Treatment Instructions below.

SPRINKLER CHEMIGATION

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. 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 filtered with a system interlock. The system must contain a functional check valve, vacuum relief valve, and low pressure drain approximately 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. This 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 filtered with a system interlock.

TREATMENT INSTRUCTIONS

DO NOT apply when wind speed favors drift beyond the area intended for treatment. When mixing, fill nurse tank half full with water. Add COHVAL 50 DF slowly to tank while hydraulic or mechanical agitation is operating and continue filling

with water. Stickers, spreaders, insecticides, nutrients, etc. must be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations which can be

encountered, observe all cautions and limitations on the label of all products used in mixtures. Add COHVAL 50 DF through a traveling irrigation system continuously or at the last 30 minutes of solid set or hand moved irrigation systems. Agitation is advised.

Minimum Spray Volume (Gallons Per Acre) When Applying COHVAL 50 DF

Crop Group	Aerial	Ground	
		Dilute	Concentrate
Citrus	10	800	100**
Conifers	10	100	30
Field Crops	3	20	---
Small Fruits	5	150	50
Tree Crops	10	400	50
Vegetables	3	20	---
Vines	5	150	50
Miscellaneous	10	150	50

**Pesticide application equipment such as Curtec or other similar sprayers which are capable of obtaining thorough coverage at low volumes may be used at as low as 20 gallons per acre of spray volume.

The following specific instructions are based on general application procedures. Closely follow the guidance of the State Agricultural Extension Service as to timing, frequency and number of sprays per year.

FROST INJURY PROTECTION

BACTERIAL ICE NUCLEATION INHIBITOR

Application of COHVAL 50 DF made to all crops listed on this label at rates and stages of growth indicated on this label at least 24 hours prior to anticipated frost conditions will afford control of ice nucleating bacteria (*Pseudomonas syringae*, *Erwinia herbicola*, and *Pseudomonas fluorescens*) and may thereby provide some protection against light frost. The degree of frost protection will vary with weather conditions and other factors. Not -advised for those geographical areas where weather conditions favor severe frost.

CITRUS (Grapefruit, Kumquat, Lemon, Orange, Pummelo, Tangelo, Tangerine & Lime)

Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Melanose**, Scab**, Pink Pitting, Greasy Spot	3.0 – 6.3 (1.5 – 3.15)	Apply as pre-bloom and post-bloom sprays. Use the higher rates when conditions favor disease.
Brown Rot, Septoria Spot	4.0 – 6.3 (2.0 – 3.15)	Apply beginning in the fall and continuing as needed. For Brown Rot, apply to skirts of trees to a height of at least 4 feet. Apply also to bare ground one foot beyond skirt. Use higher rates when conditions favor disease. NOTE: In California, in areas subject to copper injury, add 1/4 lb. of high quality lime per lb of COHVAL 50 DF.
RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 6.3 lbs products/acre (3.15 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days * Metallic Copper Equivalent: 50% ** Use a minimum of 4 lbs /acre in California		

CITRUS (Grapefruit, Kumquat, Lemon, Orange, Pummelo, Tangelo, Tangerine & Lime)		
Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Citrus Canker (suppression only)	6.3 (3.15)	Spraying flushes 7 - 14 days after shoots begin to grow. Young fruit may need additional application. Number and timing of will depend on disease pressure. Under heavy disease pressure, spray each flush of new growth.
Phytophthora Foot Rot	6.3 (3.15)	Mix 1.0 lbs with one gallon of water and paint trunks of trees from the soil surface to the lowest scaffold limbs. DO NOT exceed 6.3 lbs of product per acre. If maximum single application rate is met before application to all trees within the acre, observe the 7 day interval before treating additional trees. Trunk applications are included in the annual maximum application rate. Apply in May before summer rains and/or in the fall before wrapping trees for freeze protection. This treatment serves as protection for up to one year, but does not cure existing infections.
RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 6.3 lbs products/acre (3.15 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days * Metallic Copper Equivalent: 50%		

CITRUS FIELD NURSERY GROWN
To control Melanose, Scab, Pink Pitting, Greasy Spot, Brown Rot and for suppression of Citrus Canker, apply 4.0 to 6.3 lbs of product per acre (2.0 to 3.15 lbs of metallic copper per acre). Apply 2.0 pounds of COHVAL 50 DF per 100 gallons of water. The maximum application rate per year is 25.2 lbs of product per acre (12.6 lbs of metallic copper per acre). The Minimum Retreatment Interval is 7 days.

FIELD CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Alfalfa	Cercospora Leaf Spot, Leptosphaerul- ina Leaf Spots	1.0 (0.5)	Apply 10 to 14 days before each harvest or earlier if disease threat- ens. Apply with ground or aerial equipment. NOTE: Spray injury may occur with sensitive varieties such as Lahontan.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 30 days. Maximum number of applications/year is 2. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 2.0 lbs/acre (1.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Cereal Grains (Barley, Millet, Oat, Rye, Sorghum, Wheat)	Septoria Leaf Blotch Helmin- thosporium Spot Blotch	1.0 (0.5)	Make first application at early heading and follow with second ap- plication 10 days later.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 10 days. Maximum number of applications/year is 2. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 2.0 lbs/acre (1.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Corn (Field Corn, Popcorn, Sweet Corn) ‡	Bacterial Stalk Rot Goss's Wilt (suppression only)	1.0 - 2.1 (0.5 - 1.05)	Begin treatment when disease first appears and repeat every 7 to 10 days as needed. Use the higher rates and shorter spray intervals when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 2.1 lbs products/acre (1.05 lbs metallic Cu/acre) Maximum annual application rate is 8.4 lbs/acre (4.2 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

FIELD CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Peanut	Cercospora Leaf Spot	1.5 (0.75)	Begin spraying 25-40 days after planting or when disease symptoms appear. Use sufficient water to get adequate coverage. Continue applications at 7 to 14 day intervals. Reduce spray interval to 7 days during humid weather.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 6. Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 9.0 lbs/acre (4.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Potato	Early & Late Blight	1.0 – 5.0 (0.5 – 2.5) Use a maximum of 4 lbs /acre in California	Apply 1.0 - 1.5 pounds product at 5 to 10 day intervals starting when plants are 2 - 6 inches high until 2 weeks before harvest in locations where disease is light and up to 3 to 5 pounds per acre where disease is more severe. Under conditions of severe disease, control with COHVAL 50 DF will be improved by tank mixing with other compatible fungicides registered for use on potatoes. Read and follow all label instructions of tank mix partners.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 10 and 12 in California. Maximum single application rate is 5.0 lbs products/acre (2.5 lbs metallic Cu/acre); in California 4.0 lbs products/acre (2.0 lbs metallic Cu/acre) Maximum annual application rate is 50.0 lbs/acre (25.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Sugar Beet & Table Beets	Cercospora Leaf Spot	2.45 (1.23)	Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals as needed.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 10 days. Maximum number of applications/year is 4. Maximum single application rate is 2.45 lbs products/acre (1.23 lbs metallic Cu/acre) Maximum annual application rate is 15.0 lbs/acre (7.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

SMALL FRUITS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Brambles (Logan, Rasp- berry, Dew- berry, Black- berry, Santiam, Boysen, Mar- ion, Aurora, Cascades, Che- halem and Thornless Ever- green)	Leaf & Cane Spot, Purple Blotch, An- thraxnose, Yellow Rust	4.0 (2.0)	Make fall spray application after harvest. Apply delayed dormant spray after pruning/training in spring.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5. Maximum single application rate is 4.0 lbs products/acre (2.0 lbs metallic Cu/acre) Maximum annual application rate is 20.0 lbs/acre (10.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Leaf & Cane Spot, Purple Blotch, An- thraxnose, Yellow Rust	2.0 (1.0)	Apply when leaf buds begin to open and repeat when flower buds show white. NOTE: Crop injury may occur if applied to foliage under hot or moist envi- ronmental conditions. Discontinue applications if injury noted.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 10. Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 20.0 lbs/acre (10.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Blueberries	Bacterial Canker	2.0 – 4.2 (1.0 – 2.1)	Make first application before the fall rains, preferably the first week in October and a second application 4 weeks later. Use higher rate when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 16.8 lbs/acre (8.4 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Cranberry	Fruit Rot	4.2 (2.1)	One or two additional applications made at 7 to 14 day intervals may be re- quired, depending on disease pressure.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 6. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

SMALL FRUITS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Cranberry	Rose Bloom	4.2 (2.1)	Apply three sprays on 10 - 14 day schedule as soon as symptoms are observed.
	Bacterial Stem Canker	4.2 (2.1)	Apply postharvest and again in spring before bud burst. One or two additional applications at 10 to 14 day intervals may be required depending upon disease severity.
	Tip Blight (<i>Monilinia</i>), Red Leaf Spot, Stem and Leaf Blight	4.2 (2.1)	Apply delayed dormant spray in the Spring. Repeat at 10 - 14 day intervals as needed through pre-bloom.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 6. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Currants and Gooseberry (<i>Ribes</i>) ‡	Anthracnose, Leaf Spot	5.0 – 8.0 (2.5 – 4.0)	Make initial application after first leaves have expanded. Continue on a 10 - 14 day schedule during wet conditions in the Spring. Make an additional application after harvest.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 10 days. Maximum number of applications/year is 5. Maximum single application rate is 8.0 lbs products/acre (4.0 lbs metallic Cu/acre) Maximum annual application rate is 40.0 lbs/acre (16.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Strawberries	Downy Mil- dew Leaf Spot, Leaf Blight,	2.0 – 3.0 (1.0 – 1.5)	Begin application when plants are established and continue on a weekly schedule throughout season. Apply in at least 20 gallons of water. Use the higher rates when conditions favor disease. NOTE: Discontinue applications if signs of phytotoxicity appear.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre) Maximum annual application rate is 12.0 lbs/acre (6.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Almonds	Dormant and Late Dormant to Pink Bud Season: Bacterial Blast** (<i>Pseudomo- nas</i>) Coryneum Blight (Shot hole)***	8.0 – 16.0 (4.0 – 8.0)	Use at dormant to early pink bud. For blast control in sprinkler irrigated orchards or where disease is severe, ap- ply 2-4 sprays or as many as required at 1.0 - 3.0 lbs per acre at 2 week post- bloom intervals or just before sprinkling. Slight leaf injury may occur from post-bloom spray.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 2. Maximum single dormant application rate is 16.0 lbs products/acre (8.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bloom/Grow- ing Season: Coryneum Blight Blossom Brown Rot	3.0 (1.5)	Use during the early bloom stage (popcorn). A second application in late dormant before foliage buds swell may be neces- sary when frequent rainfall occurs. To avoid plant injury, DO NOT use after full bloom.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 12. Maximum single bloom/growing application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50% ** Use a minimum of 12 lbs of product/Acre in California *** DO NOT apply more than 12 lbs of product/Acre in California			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Pome fruits (Apple, Loquat, Pear, Quince)	Fall & Late Dormant: Anthracnose Blossom & Shoot Blast (<i>Pseudomonas</i>) European Can- ker Shoot Blast	12.0 (6.0)	Apply before fall rains. Use on yellow varieties may cause discoloration. To avoid, pick before spraying. Only one dormant application allowed per year
	RESTRICTIONS: Maximum number of applications/year is 1. Maximum single dormant application rate is 12.0 lbs products/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 32.0 lbs/acre (16.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Between sil- ver-tip and green-tip: Apple Scab ‡, Fire blight	4.0 – 12.0 (2.0 – 6.0)	ATTENTION: Phytotoxicity may occur from late application. (Discontinue use when green-tip is 1/2 inch.) Only one application allowed per year
	RESTRICTIONS: Maximum number of applications/year is 1. Maximum single between silver-tip and green-tip application rate is 12.0 lbs products/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 32.0 lbs/acre (16.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bloom & Growing Sea- son: Fire blight	1.0 – 3.0 (0.5 – 1.5) Use a maximum of 1 lbs /acre in California	Extended spray schedule where fruit finish is not a concern. Continued applications may be made at 5 - 7 day intervals. NOTE: Crop injury may occur from extended spray schedule. Not intended for fresh market apples due to possible russetting. The addition of 1 - 3 lbs of lime per pound of COHVAL 50 DF may reduce injury.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 10 and 32 in California. Maximum single bloom/growing season application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre); in California 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 32.0 lbs/acre (16.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Crown or Collar Rot ‡ (<i>Phytophthora cactorum</i>)	1.0 (0.5)	Apply either in early spring or in fall after harvest each year. DO NOT use if soil pH is below 5.5 or copper toxicity may result. Mix 1 lbs product in 25 gallons of water. Apply 1-4 gallons of suspension as a drench on the lower trunk area of each tree. DO NOT exceed the maximum single application rate of 1.0 pounds of product per acre for growing season use. Follow the 5 day retreatment interval for any untreated trees.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 32. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 32.0 lbs/acre (16.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Apricots	Dormant, Late Dormant, Up to Pink Bud: Anthracnose Dead Bud (<i>Pseudomonas syringae</i>) Coryneum Blight European Can- ker	12.0 – 16.0 (6.0 – 8.0) In California apply 12 lbs /acre	Apply before fall rains. Use the higher rates when conditions favor disease. Use on yellow varieties may cause discoloration. To avoid, pick before spraying Only one dormant application allowed per year.
	RESTRICTIONS: Maximum number of applications/year is 1. Maximum single dormant application rate is 16.0 lbs products/acre (8.0 lbs metallic Cu/acre); in California is 12.0 lbs/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bloom, Growing Season: Coryneum Blight (Shot Hole) Blossom Brown Rot	2.0 – 3.0 (1.0 – 1.5)	Apply at popcorn to full bloom as a full cover spray. To avoid spray injury, DO NOT apply after full bloom.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 12. Maximum single bloom and growing season application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Avocados	Anthracnose Blotch Scab	4.0 – 6.3 (2.0 – 3.15)
RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 6. Maximum single application rate is 6.3 lbs products/acre (3.15 lbs metallic Cu/acre) Maximum annual application rate is 37.8 lbs/acre (18.9 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days			
Bananas	Sigatoka (black and yellow)	2.1 (1.05)	Apply by air at lbs. per acre in 3 gallons of water containing 0.5 gallon agri- cultural oil. Apply on a 7 - 14 day schedule throughout the wet season. Apply at 14 - 21 day intervals during dry periods.
	Black Pitting	2.1 (1.05)	Dilute in 50 - 100 gallons of water and apply directly to the fruit stem and in- clude the basal portion of the leaf crown. Apply during the first and second weeks after emergence.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 18. Maximum single application rate is 2.1 lbs products/acre (1.05 lbs metallic Cu/acre) Maximum annual application rate is 37.8 lbs/acre (18.9 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Cacao	Black pod	3.0 – 4.5 (1.5 – 2.25)	Begin applications at the start of the rainy season and continue while infection conditions persist. Make sprays as often as 14-21 days in high rainfall areas at varying rates per acre depending on disease severity. For drier areas make 2 to 4 applications during critical infection periods and at long intervals, at 2 - 4 lbs per acre, according to disease incidence and planting density.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 7. Maximum single application rate is 4.5 lbs products/acre (2.25 lbs metallic Cu/acre) Maximum annual application rate is 31.5 lbs/acre (15.75 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Cherry	Dormant, Late Dormant, Up to Pink Bud: Anthracnose Dead Bud (<i>Pseudomonas syringae</i>) Coryneum Blight European Canker	8.0 – 16.0 (4.0 – 8.0) DO NOT apply more than 12 lbs /acre in California	In orchards where the disease is severe, also apply a spray shortly after harvest.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 2 and 3 in California. Maximum single dormant application rate is 16.0 lbs products/acre (8.0 lbs metallic Cu/acre); in California 12.0 lbs products/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bloom & Growing Season: Brown Rot Blossom	2.0 – 3.0 (1.0 – 1.5)	Apply at popcorn and full bloom.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 12. Maximum single bloom/growing application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Coffee ‡	Coffee Berry Disease (<i>Colletotrichu mum coffeanum</i>)	4.2 (2.1)	Apply after flowering and before the start of long rains and then at 14 - 28 day intervals until picking.
	Bacterial Blight (<i>Pseudomonas syringae</i>)	4.2 (2.1)	Begin spray program before the start of long rains and continue until picking. The critical time of spraying to control disease is just before, during, and after flowering(s), especially when these times coincide with wet weather.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 6. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Coffee ‡	Iron Spot (<i>Cercospora coffeicola</i>) & Pink Disease (<i>Corticium salmonicolor</i>)	2.0 (1.0)	Begin treatment at start of wet season and continue at 14 - 28 day intervals for three applications.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 12. Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Leaf Rust	3.0 – 4.2 (1.5 – 2.1)	Apply before the onset of rain and then at 14 - 21 day intervals while rains continue.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 6. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Filbert (Permitted in the states of Washington and Oregon only)	Bacterial Blight (Post-Harvest application)	8.0 – 12.0 (4.0 – 6.0)	Apply as a post-harvest spray. In seasons of heavy rainfall, apply a second spray when three-quarters of leaves have dropped. Add 1 pint of superior-type oil per 100 gallons of water.
	Eastern Filbert Blight	8.0 – 12.0 (4.0 – 6.0)	Apply as a dilute spray in adequate water for thorough coverage. Make initial application after harvest in October before heavy winter rains begin. Make the next application in late February to early March followed by another application 1 month later. If desired, add 1 pint of a sticking agent or superior-type oil per 100 gallons of water.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 4. Maximum single application rate is 12.0 lbs products/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 48.0 lbs/acre (24.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Mango	Anthracnose	4.0 – 6.4 (2.0 – 3.2)	Repeat on 7 - 30 day schedule as disease severity and environmental conditions dictate. Use higher rates when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 15. Maximum single application rate is 6.4 lbs products/acre (3.2 lbs metallic Cu/acre) Maximum annual application rate is 96.0 lbs/acre (48.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Olives	Peacock Spot Olive Knot	5.0 – 12.0 (2.5 – 6.0) Use a minimum of 8 lbs /acre in California	Apply before winter rains fall. Make a second application in early spring if disease is severe. Use higher rates when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 30 days. Maximum number of applications/year is 3. Maximum single application rate is 12.0 lbs products/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Peaches & Nectarines	Dormant, Late Dormant, Up to Pink Bud: Bacterial Spot Leaf Curl Coryneum Blight (Shot Hole)	8.0 – 16.0 (4.0 – 8.0)	Apply at leaf fall as dormant application. Use the higher rate when rainfall is very heavy and disease pressure is high. May be used with an agricultural spray oil.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 2. Maximum single dormant application rate is 16.0 lbs products/acre (8.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Brown Rot Blossom Blight	8.0 – 12.0 (4.0 – 6.0)	Apply as a full cover spray at pink bud. (Application at this time also affords some control of Leaf Curl and Coryneum Blight). NOTE: DO NOT spray later than three weeks prior to harvest.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 3. Maximum single application rate is 12.0 lbs products/acre (6.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bloom & Growing Season: Bacterial Spot	1.0 – 3.0 (0.5 – 1.5) Use a maximum of 1 lbs /acre in California	Post-bloom application applied at first and second cover sprays. NOTE: DO NOT spray 3 weeks prior to harvest. Spotting of leaves and some defoliation may occur from use in post-bloom cover sprays.
RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 12. Maximum single bloom/growing application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days			
Pecans	Shuck and Kernel rot (<i>Phytophthora cactorum</i>) Zonate leaf spot (<i>Cristulariella pyramidalis</i>)	2.0 – 4.2 (1.0 – 2.1)	Apply in sufficient water for good coverage at 2 - 4 week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter intervals if frequent rainfall occurs.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 3. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 12.6 lbs/acre (6.3 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Mosses Algae Lichen	12.6 (6.3)	Mix 2 lbs 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. Make only one application per year
	RESTRICTIONS: Maximum number of applications/year is 1. Maximum single application rate: 12.6 lb product/acre (6.3 lbs metallic Cu/acre). Maximum annual application rate is 12.6 lbs/acre (6.3 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

TREE CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Pistachios	Botrytis Blight, Botryosphaeri a Panicle, Shoot Blight, Septoria Lea Blight Late Blight (<i>Alternaria</i>)	3.0 – 4.2 (1.5 – 2.1)	Make initial application at bud swell and repeat on a 14 - 28 day schedule. Use higher rates when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 4. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 16.8 lbs/acre (8.4 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Plums & Prunes	Dormant, Late Dormant, Up to Pink Bud: Coryneum blight (Shot hole)	8.0 – 16.0 (4.0 – 8.0)	Apply as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 2. Maximum single dormant application rate is 16.0 lbs products/acre (8.0 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bloom & Growing Season: Brown rot blossom blight, Black Knot	3.0 (1.5)	Apply full cover application at pink, red or early white bud stage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 12. Maximum single bloom/growing application rate is 3.0 lbs products/acre (1.5 lbs metallic Cu/acre) Maximum annual application rate is 36.0 lbs/acre (18.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Walnuts	Walnut Blight	4.0 – 8.0 (2.0 – 4.0) Use a minimum of 8 lbs /acre in California	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. Thorough coverage of catkins, leaves and nutlets is essential for effective control. When applied as a dilute spray, 1 pint of summer oil emulsion may be added per 100 gallons of spray. NOTE: Adequate control may not be obtained when copper tolerant species of <i>Xanthomonas</i> bacteria are present.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 8. Maximum single application rate is 8.0 lbs products/acre (4.0 lbs metallic Cu/acre) Maximum annual application rate is 64.0 lbs/acre (32.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

VEGETABLES			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Beans (Dry, Green)	Bacterial Blight (Halo & Common) Brown spot	1.0 – 1.5 (0.5 – 0.75)	For protective sprays apply first application when plants are five to six inches high. Apply on 7 - 14 day schedule depending on local conditions. Use higher rate for more severe disease pressure.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 6.Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 9.0 lbs/acre (4.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Carrots	Carrot Blight (Cercospora)	2.0 (1.0)	Begin application when disease first threatens and repeat at 7 to 14 day intervals as needed depending on disease severity.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5.Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 10.0 lbs/acre (5.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Celery & Celeriac	Early, Late & Bacterial Blights	2.0 (1.0)	Apply as soon as plants are first established in the field, then every 7 days or longer depending on severity and weather.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5.Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 10.0 lbs/acre (5.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Crucifers (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese cabbage, Collard Greens, Kale, Kohlrabi, Mustard Greens, & Turnip Greens	Downy Mildew Black Rot (<i>Xanthomonas</i>) Black Leaf Spot (<i>Alternaria</i>)	1.0 (0.5)	Begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development. (CAUTION: A sight reddening of older leaves may occur on broccoli and a slight flecking of wrapper leaves may occur on cabbage.)
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5.Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 5.0 lbs/acre (2.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

VEGETABLES			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Cucurbits (Cantaloupes, Casaba, Chayote, Citron melon, Cucumber, Gourd, Honey- dews, Muskmelons, Pumpkins, Squash, Watermelon & Waxgourd)	Downy Mil- dew, Alternaria Leaf Spot, Angular Leaf Spot, Anthracnose, Gummy Stem Blight, Powdery Mildew, Watermelon Bacterial Fruit Blotch (Suppression)	1.5 – 2.0 (0.75 – 1.0)	Begin application when conditions are favorable for disease development. Repeat at 5 - 10 day intervals. Use higher rates when conditions favor disease. NOTE: Crop injury may occur from application at higher rates and shorter intervals. Discontinue use if injury occurs.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 5. Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 10.5 lbs/acre (5.25 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Eggplant	Alternaria Blight Anthracnose Phomopsis	1.5 (0.75)	Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals as needed depending on disease sever- ity.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 10. Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 15.0 lbs/acre (7.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Lettuce, Endive, Escarole	Downy Mildew	1.0 – 2.0 (0.5 – 1.0)	Begin treatment when disease first appears and repeat every of 5-10 days as needed to suppress disease. NOTE: Flecking and/or yellowing of leaves will occur under certain environmental conditions such as extended periods of moist weather, acid rains, or other conditions favoring reduced pH on leaf surfaces. Injury may be severe enough to reduce crop value. Increasing the volume of spray water may decrease phytotoxicity potential.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 8. Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 16.0 lbs/acre (8.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

VEGETABLES			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Okra ‡	Anthracnose Bacterial Leaf Spot Leaf Spots Pod Spots Powdery Mildew	1.0 – 2.1 (0.5 – 1.05)	Begin treatment when disease first threatens and repeat every 5 to 10 days or as needed depending on disease severity. Use the higher rates and shorter spray intervals when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 5. Maximum single application rate is 2.1 lbs products/acre (1.05 lbs metallic Cu/acre) Maximum annual application rate is 10.5 lbs/acre (5.25 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Onion, Garlic	Purple Blotch Downy Mildew	2.0 (1.0)	Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals as needed depending upon disease pressure. Can cause phytotoxicity to leaves.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 6. Maximum single application rate is 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 12.0 lbs/acre (6.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Bacterial Blight	1.0 – 1.5 (0.5 – 0.75)	Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals as needed depending upon disease pressure. Can cause phytotoxicity to leaves.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 8. Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 12.0 lbs/acre (6.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Peas	Powdery Mildew	1.5 (0.75)	Begin spray treatment when disease symptoms first appear. Repeat applications at weekly intervals.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5. Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 7.5 lbs/acre (3.75 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Peppers	Bacterial Spot	1.5 (0.75)	Apply, when disease threatens, in sufficient water to provide adequate coverage. Use at 3 to 14 day intervals depending on disease severity.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 3 days. Maximum number of applications/year is 15. Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 23.5 lbs/acre (11.75 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

VEGETABLES			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Tomatoes (Processing)	Early Blight, Bacterial Speck, Bacterial Spot, Anthracnose, Gray Leaf Mold, Gray Leaf Spot, Septoria Leaf Spot, Late Blight	1.0 (0.5)	When disease threatens, apply at 7 - 10 day intervals, more frequently when disease is severe.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 3 days. Maximum number of applications/year is 34. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 34.5 lbs/acre (17.25 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Tomatoes (Fresh Market)	Early Blight, Bacterial Speck, Bacterial Spot, Anthracnose, Gray Leaf Mold, Gray Leaf Spot, Septoria Leaf Spot, Late Blight	3.2 (1.6)	When disease threatens, apply at 7 - 10 day intervals, more frequently when disease is severe.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 3 days. Maximum number of applications/year is 5. Maximum single application rate is 3.2 lbs products/acre (1.6 lbs metallic Cu/acre) Maximum annual application rate is 16.0 lbs/acre (8.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Watercress	Cercospora Leaf Spot	1.0 (0.5)	Begin application when plants are first established in the field, repeating at 7 - 14 day intervals depending on disease severity and environmental conditions. DO NOT exceed 4 applications per year. Apply using ground spray equipment at no less than 50 gallons of spray solution per acre.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 4.0 lbs/acre (2.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

VINES			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Grapes	Black Rot Powdery Mildew Downy Mildew Phomopsis	2.0 – 6.0 (1.0 – 3.0) Use a maximum of 2 lbs /acre in California	Begin applications at late dormant up to bud break with of subsequent appli- cations throughout the season depending upon disease severity. NOTE: Foliage injury may occur on copper sensitive varieties such as Con- cord, Delaware, Niagara, and Rosettes. Either test for sensitivity or add 1 to 3 pounds of hydrated lime per pound of COHVAL 50 DF.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 3 days. Maximum number of applications/year is 6 and 20 in California. Maximum single application rate is 6.0 lbs products/acre (3.0 lbs metallic Cu/acre); in California 2.0 lbs products/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 40.0 lbs/acre (20.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Hops	Downy Mildew	1.0 (0.5)	Apply as a fungicide crown treatment (after pruning, but before training) as needed. After training, additional fungicide treatments are needed at 10 day intervals. Discontinue use 2 weeks before harvest.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 10 days. Maximum number of applications/year is 5. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 5.0 lbs/acre (2.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Kiwi	<i>Pseudomonas syringae Erwinia herbicola Pseudomonas fluorescens</i>	4.2 (2.1)	Make applications on a monthly basis. A maximum of 3 applications may be made.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 30 days. Maximum number of applications/year is 3. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 12.6 lbs/acre (6.3 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

MISCELLANEOUS CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Atemoya	Anthracnose	6.3 (3.15)	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 6.3 lbs products/acre (3.15 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Carambola	Anthracnose	4.2 (2.1)	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5. Maximum single application rate is 4.2 lbs products/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 21.0 lbs/acre (10.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Chives	Downy Mildew	1.0 (0.5)	Begin applications when plants are established in the field. Repeat applications every 7 - 10 days as dictated by disease conditions.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5. Maximum single application rate is 1.0 lbs products/acre (0.5 lbs metallic Cu/acre) Maximum annual application rate is 5.0 lbs/acre (2.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Dill	Phoma Leaf Spot Rhizoctonia Foliage Blight	1.5 (0.75)	Begin applications when plants are first established in the field and repeat at 7 - 10 day intervals depending upon disease severity and environmental conditions.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5. Maximum single application rate is 1.5 lbs products/acre (0.75 lbs metallic Cu/acre) Maximum annual application rate is 7.5 lbs/acre (3.75 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Ginseng	Alternaria Leaf Blight, Stem Blight	2.1 (1.05)	Begin tank mix applications as a tank mix with two pounds of Iprodione 50 WP in 100 gallons of water per acre as soon as plants have emerged in spring. Repeat applications 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 and 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 is required for control.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 5. Maximum single application rate is 2.1 lbs products/acre (1.05 lbs metallic Cu/acre) Maximum annual application rate is 10.5 lbs/acre (5.25 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

MISCELLANEOUS CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Guava	Anthracnose, Red Algae	2.45 (1.23)	Make initial application just before flowering and repeat on a weekly sched- ule until just before harvest. Apply in sufficient water for thorough coverage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 2.45 lbs products/acre (1.23 lbs metallic Cu/acre) Maximum annual application rate is 9.8 lbs/acre (4.9 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Litchi	Anthracnose	2.4 (1.2)	Make initial application just before flowering and repeat on a weekly sched- ule until just before harvest. Apply in sufficient water for thorough coverage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 2.4 lbs products/acre (1.2 lbs metallic Cu/acre) Maximum annual application rate is 9.6 lbs/acre (4.8 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Live Oak ‡	Ball Moss	4.0 (2.0)	Mix 4 lbs of product per 100 gallons of water. DO NOT exceed the 4.0 lbs of product per acre limit. Apply in spring after heavy rain, using 1.5 gallons of spray per foot of tree height. Make sure to set tufts thoroughly. (NOTE: COHVAL 50 DF may be injurious to some ornamentals grown un- der live oaks). A second application may be required after 12 months
	RESTRICTIONS: Maximum number of applications/year is 1. Maximum single application rate is 4.0 lbs products/acre (2.0 lbs metallic Cu/acre) Maximum annual application rate is 4.0 lbs/acre (2.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Macadamia Nuts	Anthracnose	4.7 (2.35)	Initiate sprays at first sign of flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 4.7 lbs/acre (2.35 lbs metallic Cu/acre) Maximum annual application rate is 18.8 lbs/acre (9.44 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
	Blossom blight Raceme blight	2.0 – 4.0 (1.0 – 2.0) Use a minimum of 4.0 lbs/acre in California	Apply during peak development and bloom period. Use higher rates when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 4.0 lbs/acre (2.0 lbs metallic Cu/acre) Maximum annual application rate is 18.8 lbs/acre (9.44 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Mamey Sapote	Anthracnose, Algal Leaf Spot	3.0 – 4.2 (1.5 – 2.1)	Apply when conditions favor disease development. Repeat on 14 - 30 day schedule as disease severity and environmental condi- tions dictate. Use higher rates when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 14 days. Maximum number of applications/year is 4. Maximum single application rate is 4.2 lbs/acre (2.1 lbs metallic Cu/acre) Maximum annual application rate is 16.8 lbs/acre (9.44 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
‡ Not for use in California * Metallic Copper Equivalent: 50%			

MISCELLANEOUS CROPS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Papaya	Anthracnose	4.0 – 5.3 (2.0 – 2.63)	Begin application before disease is expected to appear. Repeat at 7 to 14 day intervals. Use the higher rates when conditions favor disease. The addition of a suitable spreader-sticker may be desirable especially during periods of heavy rains.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 8. Maximum single application rate is 5.3 lbs/acre (2.63 lbs metallic Cu/acre) Maximum annual application rate is 42.4 lbs/acre (21.2 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Parsley	Bacterial Blight (<i>Pseudomonas</i> <i>sp.</i>)	2.0 (1.0)	Begin applications when plants are first established in the field and repeat at 10 day intervals depending upon disease severity and environmental conditions.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 10 days. Maximum number of applications/year is 2. Maximum single application rate is 2.0 lbs/acre (1.0 lbs metallic Cu/acre) Maximum annual application rate is 4.0 lbs/acre (2.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Passion fruit	Anthracnose	4.7 (2.35)	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 4.7 lbs/acre (2.35 lbs metallic Cu/acre) Maximum annual application rate is 18.8 lbs/acre (9.44 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Sugar Apple (Annona)	Anthracnose	6.3 (3.15)	Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 4. Maximum single application rate is 6.3 lbs/acre (3.15 lbs metallic Cu/acre) Maximum annual application rate is 25.2 lbs/acre (12.6 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Sycamore	Anthracnose	2.0 – 4.0 (1.0 – 2.0) Use a maximum of 3.0 lbs/acre in California	Make two applications as a full cover spray. Use a minimum of 100 gallons water per acre. Make first application at bud crack and second application 7 to 14 days later at 10% leaf expansion.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 10. Maximum single application rate is 4.0 lbs/acre (2.0 lbs metallic Cu/acre) Maximum annual application rate is 40.0 lbs/acre (20.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

CONIFERS			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Douglas Fir	Rhabdocline needlecast	2.0 – 4.0 (1.0 – 2.0)	Begin applications at bud break and repeat at 7 - 28 day intervals. Use higher rates when conditions favor disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 10. Maximum single application rate is 4.0 lbs/acre (2.0 lbs metallic Cu/acre) Maximum annual application rate is 40.0 lbs/acre (20.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

GREENHOUSE AND SHADEHOUSE CROPS			
Notice to User: COHVAL 50 DF may be used in greenhouses and shadehouses to control diseases on some crops which appear on this label. The grower must bear in mind that the sensitivity of crops grown in greenhouses and shadehouses differ greatly from crops grown under field conditions. Neither the manufacturer nor seller has determined whether or not COHVAL 50 DF can be used safely prior to commercial use. In a small area, apply the labelled rates to the plant in question, i.e. foliage, fruit, etc. and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use.			
Apply COHVAL 50 DF according to specific rates given for these crops in pounds per acre or pounds per 100 gallons.			
COHVAL 50 DF must be applied in adequate water for thorough coverage of plant parts. Begin application at first sign of disease and repeat at 7 to 14 day intervals as needed; use shorter interval during periods when severe disease conditions persist.			
The Re-entry Interval (REI) for Greenhouse use is 24 hours. Refer to the Agricultural Use Requirements section for notification and PPE requirements for greenhouse use.			
Crop	Disease	Application Rate (oz product/1,000ft ²) (oz metallic Cu/1,000ft ²)*	-Application Instructions
Eggplant	Alternaria Blight, Anthracnose, Phomopsis	0.2 – 0.5 (0.1 – 0.25)	Begin applications prior to development of disease symptoms. Repeat sprays at 7 to 10 day intervals as needed depending on disease pressure.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 30. Maximum single application rate is 0.5 lbs products/acre (0.25 lbs metallic Cu/acre) Maximum annual application rate is 15.0 lbs/acre (7.5 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Pepper	Bacterial Spot	0.2 – 0.5 (0.1 – 0.25)	Begin applications when conditions first favor disease development and repeat at 5 to 10 day intervals as needed depending on disease severity. Use higher rates for severe disease
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 5 days. Maximum number of applications/year is 47. Maximum single application rate is 0.5 lbs products/acre (0.25 lbs metallic Cu/acre)Maximum annual application rate is 23.5 lbs/acre (11.75 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
Cucumber	Angular Leaf Spot, Downy Mildew	0.4 – 0.77 (0.2 – 0.39)	Apply weekly when plants begin to vine.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 7 days. Maximum number of applications/year is 13. Maximum single application rate is 0.77 lbs products/acre (0.39 lbs metallic Cu/acre) Maximum annual application rate is 10.5 lbs/acre (5.25 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

GREENHOUSE AND SHADEHOUSE CROPS			
Crop	Disease	Application Rate (oz product/1,000ft ²) (oz metallic Cu/1,000ft ²)*	-Application Instructions
Tomato	Early Blight, Late Blight, Bacterial Speck, Bacterial Spot, Anthracnose, Gray Leaf Mold, Septoria Leaf Spot	0.2 – 0.4 (0.1 – 0.2)	Begin applications when disease first threatens and repeat at 3 to 10 day intervals or as needed depending on disease severity. Use higher rate for severe disease.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 3 days. Maximum number of applications/year is 40. Maximum single application rate is 0.4 lbs products/acre (0.2 lbs metallic Cu/acre) Maximum annual application rate is 16.0 lbs/acre (8.0 lbs metallic Cu/acre) Preharvest Interval (PHI) is 0 days		
* Metallic Copper Equivalent: 50%			

ORNAMENTALS (Not for use in California)		
<p>Notice to User: Plant sensitivities to COHVAL 50 DF 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 COHVAL 50 DF. Neither the manufacturer nor seller has determined whether or not COHVAL 50 DF can be safely used on ornamental or nursery plants not listed on this label. The user must determine if COHVAL 50 DF can be used safely prior to commercial use. In a small area, apply the specified 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.</p> <p>Use COHVAL 50 DF 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.</p> <p>Apply as a thorough coverage spray using 1.0 lbs product 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.</p> <p>COHVAL 50 DF may be used as a maintenance spray alone or in combination with other fungicides such as the dithiocarbamates.</p> <p>Ornamentals Restrictions: Minimum retreatment interval is 7 days. Maximum number of applications/year is 10. Maximum single application rate is 4.0 lbs /A (2.0 lbs metallic copper equivalent) Maximum annual application rate is 40.0 lbs /A (20 lbs metallic copper equivalent)</p>		
Crop	Scientific Name	Disease
Althea (Rose of Sharon)	<i>Hibiscus syriacus</i>	Bacterial Leaf Spot
Aralia	<i>Dizygotheca elegantissima</i>	Xanthomonas Leaf Spot, Cercospora Leaf Spots, Alternaria
Arborvitae	<i>Thuja</i> spp.	Alternaria Twig Blight, Cercospora Leaf Blight
Azalea*	<i>Rhododendron</i> spp.	Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback, Powdery Mildew
Begonia	<i>Begonia semperflorens</i>	Xanthomonas Leaf Spot, Anthracnose
Bougainvillea	<i>Bougainvillea spectabilis</i>	Anthracnose, Bacterial Leaf Spot
Bulbs (Easter Lily**, Tulip, Gladiolus)	<i>Lilium longiflorum</i> , <i>Tulipa</i> spp., <i>Gladiolus</i> spp.	Anthracnose, Botrytis Blight
Camellia	<i>Camellia japonica</i> , <i>C. sasanqua</i>	Anthracnose, Bacterial Leaf Spot
Camphor Tree	<i>Cinnamomum camphora</i>	Pseudomonas Leaf Spot
Canna	<i>Canna</i> spp.	Pseudomonas Leaf Spot
Carnation*	<i>Dianthus</i> spp.	Alternaria Blight, Pseudomonas Leaf Spot, Botrytis Blight
<p>*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.</p> <p>**For Easter Lily, use 2.0 - 5.0 lbs product per 100 gallons.</p> <p>Restrictions (Easter Lily):</p> <ul style="list-style-type: none"> • Minimum retreatment interval is 7 days. • Maximum number of applications/year is 30. • Maximum single application rate is 5.0 lbs /A (2.5 lbs metallic copper equivalent) • Maximum annual application rate is 150 lbs /A (75 lbs metallic copper equivalent) • DO NOT apply any additional copper pesticide to this land for 36 months. 		

ORNAMENTALS (Not for use in California)		
Crop	Scientific Name	Disease
Chinese Tallow Tree	<i>Sapium sebiferum</i>	Bacterial Leaf Spot (<i>Xanthomonas</i> sp., <i>Pseudomonas</i> sp.)
Chrysanthemum*	<i>Chrysanthemum morifolium</i>	Septoria Leaf Spot, Botrytis Blight
Cotoneaster	<i>Cotoneaster</i> spp.	Botrytis Blight
Dahlia	<i>Dahlia pinnata</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
Date Palm	<i>Phoenix canariensis</i>	Pestalotia Leaf Spot
Dianthus	<i>Dianthus</i> spp.	Bacterial Spot, Bacterial Soft Rot
Dogwood	<i>Cornus florida</i>	Anthrachnose
Dusty Miller	<i>Senecio cineraria</i>	Bacterial Leaf Spot (<i>Pseudomonas cichorii</i>)
Echinacea	<i>Echinacea</i> spp.	Bacterial Leaf Spot (<i>Pseudomonas cichorii</i>)
Elm "Drake"	<i>Ulmus parviflora</i>	Xanthomonas Leaf Spot
Euonymus	<i>Euonymus</i> spp.	Botrytis Blight & Anthracnose
European Fan Palm	<i>Chamaerops humilis</i>	Pestalotia Leaf Spot
Gardenia	<i>Gardenia jasminoides</i>	Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot
Geranium	<i>Pelargonium</i> spp.	Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
Gladiolus	<i>Gladiolus</i> spp.	Alternaria Leaf Spot, Botrytis Gray Mold, Bacterial Leaf Blight
Golden Rain Tree	<i>Koelreuteria paniculata</i>	Bacterial Leaf Spot
Hibiscus	<i>Hibiscus</i> spp.	Bacterial Leaf Spot
Holly Fern	<i>Cyrtomium falcatum</i>	Pseudomonas Leaf Spot
Impatiens	<i>Impatiens sallerana</i>	Bacterial Leaf Spot
Indian hawthorn (greenhouse)	<i>Rhaphiolepis indica</i>	Entomosporium Leaf Spot
Ivy*	<i>Hedera helix</i> , <i>H. canariensis</i>	Xanthomonas Leaf Spot
Lxora	<i>Lxora coccinea</i>	Xanthomonas Leaf Spot
Juniper (Eastern Red Cedar)	<i>Juniperus</i> spp.	Anthrachnose
Lantana	<i>Lantana camera</i>	Bacterial Leaf Spot
Lilac	<i>Syringa</i> spp.	Cercospora Leaf Spot
Loblolly Bay	<i>Gordonia lasianthus</i>	Anthrachnose
Loquat	<i>Eriobotrya japonica</i>	<i>Entomosporium maculata</i> , <i>Colletotrichum</i> sp.
Magnolia (Southern)	<i>Magnolia grandiflora</i>	Algal Leaf Spot, Anthracnose, Bacterial Leaf Spot
Mandevilla	<i>Mandevilla</i> spp.	Anthrachnose
Marigold	<i>Tagetes</i> spp.	Alternaria Leaf Spot, Botrytis Leaf Rot, Flower Rot, Cercospora Leaf Spot
Mulberry, Weeping	<i>Morus alba</i>	Bacterial Leaf Spot
Oak, Laurel	<i>Quercus laurifolia</i>	Algal Leaf Spot (<i>Cephaleuros virescens</i>)
Oleander	<i>Nerium oleander</i>	Bacterial Leaf Spot, Fungal Leaf Spot
Pachysandra	<i>Pachysandra procumbens</i>	Volutella Leaf Blight
Pansy	<i>Viola tricolor</i>	Downy Mildew
Pear (Flowering)	<i>Pyrus calleryana</i>	Fire blight, Leaf Spot
Pentas (Egyptian Star)	<i>Pentas</i> spp.	Bacterial Leaf Spot (<i>Xanthomonas</i> sp.)
Peony	<i>Paeonia</i> spp.	Botrytis Blight
Periwinkle	<i>Catharanthus roseus</i> , <i>Vinca</i> spp.	Phomopsis Stem Blight
Philodendron	<i>Philodendron selloum</i>	Bacterial Leaf Spot
Phlox	<i>Phlox</i> spp.	Alternaria Leaf Spot
Photinia (Red Tip)	<i>Photinia x fraseri</i> , <i>P. glabra</i>	Anthrachnose, Entomosporium Leaf Spot
Pistachio	<i>Pistacia chinensis</i>	Anthrachnose
Plantain Lily	<i>Hosta</i> spp.	Bacterial Leaf Spot
Powder Puff Plant	<i>Calliandra</i> spp.	Bacterial Leaf Spot
Pyracantha	<i>Pyracantha</i> spp.	Fireblight, Scab
*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.		

ORNAMENTALS (Not for use in California)		
Crop	Scientific Name	Disease
Queen Palm	<i>Arecastrum romanzoffianum</i>	Exosporium Leaf Spot, Phytophthora Bud Rot
Rhododendron	<i>Rhododendron</i> spp.	Alternaria Flower Spot
Rose*	<i>Rosa</i> spp.	Powdery Mildew, Black Spot
Verbena	<i>Verbena</i> spp.	Xanthomonas Leaf Spot
Viburnum	<i>Viburnum odoratissimum</i> , <i>V. plicatum</i> , <i>V. suspensum</i>	Anthracnose
Washingtonia Palm	<i>Washingtonia robusta</i>	Pestalotia Leaf Spot
Weeping Willow	<i>Salix</i> spp.	Anthracnose
Yucca (Adams Needle)	<i>Yucca</i> spp.	Cercospora Leaf Spot, 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.		

TURFGRASS (Sod Farms and other non-residential sites only)			
Crop	Disease	Application Rate (lbs product/acre) (lbs metallic Cu/acre)*	-Application Instructions
Turfgrass (Sod farms and other non-residential sites only)	Algae	3.0 – 6.0 (1.5 – 3.0)	May be used as a maintenance spray as needed. May be used alone or in of combination with fungicides such as dithiocarbamates. Use a minimum of 100 gallons of spray mix per acre. Phytotoxicity may depend on varietal differences. Apply the rate to a small area and observe 7 — 10 days for phytotoxicity. If phytotoxicity occurs, discontinue use.
	RESTRICTIONS: Minimum Retreatment Interval (RTI) is 10 days. Maximum number of applications/year is 3. Maximum single application rate is 6.0 lbs products/acre (3.0 lbs metallic Cu/acre) Maximum annual application rate is 18.0 lbs/acre (9.0 lbs metallic Cu/acre)		
* Metallic Copper Equivalent: 50%			

STORAGE AND DISPOSAL
<p>DO NOT contaminate water, food, or feed by storage or disposal.</p> <p>PESTICIDE STORAGE: Store in a cool, secure, dry area in original container.</p> <p>PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.</p> <p>CONTAINER HANDLING: Nonrefillable container. DO NOT reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available or dispose of empty bag in a sanitary landfill or by other procedures allowed by State and local authorities.</p>

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The Directions For Use of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Industrias Químicas del Vallés S.A. (IQV, S.A.) or the SELLER. To the extent permitted by law, all such risks shall be assumed by the Buyer.

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