10163-316

08 08 2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON D C 20460

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Kyla Smith Gowan Company PO Box 5569 Yuma AZ 85366 5569

AUG 0 8 2012

Subject Labeling Amendment to GWN 4620 Copper Fungicide/Bactericide EPA Registration No 10163 316 Decision No 467871 Submission Date 7/19/12

Dear Ms Smith

The labeling referred to above submitted under the Federal Insecticide Fungicide and Rodenticide Act as amended to change the REI to 48 hours as per the Copper RED is acceptable provided you make the following changes

- 1 Paginate the label
- 2 On pg 2 change the heading General Instructions and Information to Product Instructions and Information
- 3 On pg 2 revise the first sentence of the second paragraph under Application to read Apply GWN 4620 at the rate of 1 3 3 quarts per 100 gallons of spray solution for consistency with the rate tables
- 4 On page 2 in the Compatibility section add the statement Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures

A copy stamped Accepted with Comments is enclosed for your records Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment If you have any questions please contact Dominic Schuler at (703) 347 0260 or via email at schuler dominic@epa gov

Sincerely

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

GWN-4620 COPPER FUNGICIDE/BACTERICIDE

ACTIVE INGREDIENT Copper sulfate pentahydrate OTHER INGREDIENTS

(

Metallic copper equivalent 3 25 /

Contains 0 34 pounds metallic copper per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

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

	FIRST AID
If swallowed	Call a poison control center or doctor immediately for treatment advice Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
If on skin or clothing	 Take off contaminated clothing Rinse skin immediately with plenty of water for 15 20 minutes Call a poison control center or doctor for treatment advice
If inhaled	Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth to mouth if possible Call a poison control center or doctor for further treatment advice
lf ın eyes	Hold eye open and rinse slowly and gently with water for 15 20 minutes Remove contact lenses if present after the first 5 minutes then continue rinsing Call a poison control center or doctor for treatment advice
·····	HOT LINE NUMBER
	r or label with you when calling a poison control center or doctor or going for treatment. You may 98 for emergency medical treatment information
	NOTE TO PHYSICIAN
Probable mucosal damage use	may contraindicate use of gastric lavage See label for additional precautions and directions for

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed Causes moderate eye irritation Avoid contact with eyes and clothing Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco

ACCEPTED with COMMENTS In EPA Letter Dated

AUG 0 8 2012 Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Rog No

10163-316



Produced For Gowan Company P O Box 5569 Yuma AZ 85366

12 77 /

87 23 /

100 0 /

Total

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

Long sleeved shirt and long pants

Chemical resistant gloves

Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should

Wash hands before eating drinking chewing gum using tobacco or using the toilet Remove clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas Do not contaminate water when cleaning equipment or when disposing of equipment washwaters

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Follow all directions on the EPA approved label and any supplemental labeling

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 This Standard contains requirements for the protection of agricultural workers on farms forests nurseries 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is

Long sleeved shirt and long pants Chemical resistant gloves Shoes plus socks

NON AGRICULTURAL USE REQUIREMENTS

The requirements in the box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses Keep unprotected persons out of treated area until sprays have dried

GENERAL INSTRUCTIONS AND INFORMATION

GWN 4620 may be applied as an aerial ground dilute or ground concentrate spray unless specifically directed otherwise in the specific crop use directions

Application GWN 4620 can be applied with any type of application equipment that gives uniform coverage of all foliage including ground aerial and low volume sprayers and chemigation equipment specified on this label. The volume of water needed will depend on the spray equipment and the size of the crops Use in sufficient water to provide thorough coverage Metal piping or equipment used for application should be brass or stainless steel

Apply GWN 4620 at the rate of 1-4 quarts per 100 gallons of spray solution Apply in enough volume to ensure thorough coverage of foliage or fruit Thorough coverage is required for optimum disease control Under low levels of diseases use the lower rate of GWN-4620 per 100 gallons of spray solution. Maximum rates per 100 gallons should be used when disease conditions are severe

Mixing When mixing fill spray tank half full with water Add GWN 4620 to tank while hydraulic or mechanical agitation is operating and continue filling with water Spreaders stickers (cleared for application to growing cops) nutrients etc should be added last

Use within 48 hours after mixing

Compatibility Compatible with most fungal and insecticidal biopesticides when applied at least 2 days before or after application of the biopesticide

Before combining with other fungicides bactericides insecticides or plant nutritional products perform the Compatibility Jar Test before mixing a whole tank

Plant Safety Phytotoxicity - GWN 4620 has been tested on a wide variety of plants without pytotoxicity symptoms. However, be ause it is not possibly to test all plant species varieties and cultivars and because environmental facto s and varie al stage of growth ma effect phytotoxic expression it is recommended that a small group of test plants be treated at the anticipated closage rate and observed for p to 7 days to determine phytotoxicity before treating large numbers of those plants

GENERAL CHEMIGATION INSTRUCTIONS

Apply this product only through one or more of the following types of systems sprinklers 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. Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water. If you have questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise. Shut off injection equipment after treatment and continue to operate irrigation system until GWN-4620 has been cleared from the last sprinkler head.

NOTE 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 should 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. When mixing fill the nurse tank half full with water. Add GWN 4620 slowly to tank while hydraulic or mechanical agitation is operation and continue filling with water. Stickers spreaders insecticides nutrients etc. should be added last. If compatibility is in question use the Compatibility Jar Test before mixing a whole tank. Because of the wire variety of possible combinations which can be encountered observe all precautions and limitations on the labels of all products used in mixtures. Agitation of the mixture in the nurse tank is recommended. GWN-4620 should be added through a traveling irrigation systems.

Using Water from 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 regular 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 back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the 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. The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the initiate side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Sprinkler Irrigation Systems

The system must contain a functional check valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow

The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

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

SPRINKLER OR DRIP CHEMIGATION SYSTEMS

The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow

The pesticide injection pipeline must contain a functional automatic quick closing check value to prevent the flow of fluid back toward the injection pump

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops 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 fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment

APPLICATION DIRECTIONS Application rates are provided as quarts per 100 gallons of spray solution Adjust the quantity of GWN-4620 accordingly based on the spray volume required per acre to assure thorough coverage

CROP	PEST	QUARTS PER 100 GALLONS OF TOTAL SPRAY SOLUTION	COMMENTS
		CITRUS	
CITRUS	Algal Spot Melanose Scab	1 – 3 3	Apply as pre bloom and post bloom sprays Use higher rates when conditions favor disease development
	Greasy Spot Pink Pitting	1 – 3 3	Apply in summer on expanded new flush Repeat on subsequent flushes where disease pressure is severe Use higher rates when conditions favor disease development
	Alternaria Brown Spot (Suppression)	1 – 3 3	On susceptible varieties apply when the first spring flush appears and each flush thereafter Application to the fruit should start after two thirds of the petals have fallen and be repeated on a 21 day schedule NOTE When using lower rates use shorter spray intervals (7 to 14 days)
	Phytophthora Brown Rot Septoria Spot	1 – 3 3	Begin application in fall before or just after the first rain and continue as needed Apply to entire tree for Septoria or just the lower 4 to 5 feet of the tree for Brown Rot Apply also to bare ground 1 foot beyond skirt Use higher rates when conditions favor disease development
	Phytophthora Foot Rot	1 – 3 3	Mix with 1 gallon of water and paint trunks of trees from the soil surface to the lowest scaffold limbs Apply in May prior to summer rains and/or in the fall prior to wrapping trees for freeze protection Treatment serves as protection for up to 1 year but does not cure existing infections NOTE Areas where microjet or low volume irrigation hit the tree trunk may require retreatment due to wash off
	Citrus Canker (Suppression)	1 – 3 3	Spray flushes 7 to 14 days after shoots begin to grow Young fruit may require an additional application Number and timing of applications will be dependent upon disease pressure Under heavy pressure each flush of new growth should be sprayed
	the post bloom period when y Do not use GWN 4620 on citr Field Nursery Grown To cont	oung fruit is present may rest us seedlings grown in greenh rol brown rot citrus canker (si cre at a rate of 200 gallons ding on disease severity = 7 days quarts of formulated product p	ouses or shadehouses uppression) greasy spot melanose pink pitting and for of spray mixture per acre Apply GWN 4620 at 28 day per acre per application
		FIELD CROPS	
ALFALFA	Cercospora Leaf Spot Leptosphaerulina Leaf Spot	1 – 3 3	Apply 10 to 14 days before each harvest or earlier if disease threatens NOTE Spray injury may occur with sensitive varieties such as Lahontan
	Minimum retreatment interval Do not apply more than 6 12 o Do not apply more than 12 9 o	quarts of formulated product p	per acre per season
PEANUTS	Cercospora Leaf Spot	1 – 3 3	Begin spraying at 35 to 40 days after planting or when disease symptoms first appeal and repeat at 10 to 14 day interval all needed. Use higher rates and reduce spray intervals or dall when conditions favor disease development
	Minimum retreatment interval		
	Do not apply more than 9 13 of Do not apply more than 54 8 of		
POTATOES	Do not apply more than 54 8 of Early Blight Late Blight	1 – 3 3	Apply lower ates at 7 to 10 day intervals starting when plants are 0 inc ies high when discase pressure is light ind highe rates where disease pressure is more severe. Under conditions of severe disease control with GWN 4620 will be improved by

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			registered for use on potatoes Read and follow all label instructions of tank mix partners
	Minimum retreatment interval	= 5 days	
	Do not apply more than 28 9 c		t per acre per application
	Do not apply more than 289 q		
SOYBEANS (Not for	Alternaria Leaf Spot (Alternaria		Apply when mechanical injury insect damage or
use in CA)	spp)	1 – 3 3	another disease has occurred
	Bacterial Blight (Pseudomonas		Begin applications from the first node through third
	syringae) Bacterial Pustule (Xanthomonas campestris)	1 – 3 3	node development on the main stem with fully developed leaves beginning with the unifoliotate leaves (V1 – V3 growth stages) or when extended periods of wet weather are favorable for disease development Continue on a 7 to 10 day schedule when conditions continue to favor disease development
	Brown Spot (Septoria glycines)	······································	Begin application at full bloom to when pods are
		1 – 3 3	3/16 in length (R2 – R3 growth stages) or when extended periods of wet weather are favorable for disease development Continue on a 7 to 10 day schedule when conditions continue to favor disease development
	Cercospora Leaf Blight		Begin application when seed in a pod is 1/8 long
	(Cercospora kıkuchıı)	1 – 3 3	through beginning pod maturity (R5 – R7 growth sages) Continue on a 7 to 10 day schedule when conditions are favorable for disease development
	Downy Mildew (Peronospora manchurica)	1 – 3 3	Begin applications when conditions favor disease development (high humidity and cool temperatures) Continue on a 7 to 10 day schedule if weather conditions remain cool and wet
	Frogeye Leaf Spot (Cercospora sojina)	1 – 3 3	Begin applications when wet conditions exist Continue on a 7 to 10 day schedule when conditions are favorable for disease development
	Pod & Stem Blight (Diaporthe phaseolorum and Phomopsis longicola)	1 – 3 3	Begin application when seed in a pod is 1/8 long through beginning pod maturity (R5 – R7 growth sages) or when extended periods of wet weather are favorable for disease development Continue on a 7 to 10 day schedule if conditions continue to favor disease development
	Powdery Mildew (Microsphaera manshurica)	1 – 3 3	Begin applications when conditions favor disease development (cool humid nights and mild daytime temperatures) Continue on a 7 to 10 day schedule i weather conditions remain cool and wet
	Minimum retreatment interval = 7 days		
	Do not apply more than 9 13 quarts of formulated product per acre per application		
	Do not apply more than 54 8 q		
SUGAR BEETS	Cercospora Leaf Spot	1 – 3 3	Begin applications when conditions first favor disease development and repeat at 10 to 14 day intervals or as needed Use the higher rate when disease is severe
	Minimum retreatment interval	= 10 days	the second state of th
	Do not apply more than 15 1 q		per acre per application
	Do not apply more than 90 8 g		
WHEAT OATS	Helminthosporium Blotch		Make first applications at early heading and follow
BARLEY	Helminthosporium Spot Septoria Leaf Blotch	1 – 3 3	with second spray 10 days later Use the higher rate when conditions favor disease development
	Minimum retreatment interval	= 10 days	
	Do not apply more than 6 12 g		per acre per application
	Do not apply more than 12 2 of		
		SMALL FRUIT	
			Adult Cill and a cill and a cill a
BLACKBERRIES AURORA BOYSEN	Anthracnose Cane Spot Leaf Spot Pseudomonas Blight Purple Blotch Yellow Rust	1 – 3 3	Make fall application after har/e_t / pply delayed dormant spray after pruning/training in the spring Add 1 quart of crop cil per acte
CASCADE CHEHALEM LOGAN MARION SANTIAM THORNLESS EVERGREEN)	Anthracnose Cane Spot Leaf Spot Purple Blotch Yellow Rust	1 – 3 3	Apply when leaf buds begin c open and repeat whe flower buds show white NOTE Crop injury may occur if applied to foliage under certain environmen al for ditions such as hot or prolonged moist periods D scontin je appli ations if sign o crop injuly appear
· - /	Minimum retreatment interval Do not apply more than 23.1 o Do not apply more than 116 o	juarts of formulated product	t per acre per application

BLUEBERRIES	Bacterial Canker	1 – 3 3	Make first application before fall rains and a second application 4 weeks later
	Fruit Rot Phompsis Twig Blight	1 – 3 3	Dormant application Begin applications when bloom buds begin to swell Make additional applications at 10 to 14 day intervals or as needed before blooms open
	Minimum retreatment interva Do not apply more than 24 3 Do not apply more than 97 1	quarts of formulated produc	
CRANBERRIES	Fruit Rots	1 - 3 3	Make first application at mid bloom One or two additional applications at 7 to 10 day intervals may be required
	Rose Bloom	1 – 3 3	Apply three sprays on 10 to 14 day schedule as soon as symptoms are observed
	Leaf Spots Lophodermium Twig Blight Red Leaf Spot Tip Blight (Monilinia)	1 – 3 3	Apply delayed dormant spray in the spring Repeat at 10 to 14 day intervals or as needed through pre bloom
	Minimum retreatment interva Do not apply more than 24 3 Do not apply more than 146	quarts of formulated produc	
CURRANTS GOOSEBERRIES	Anthracnose Leaf Spot	1 – 3 3	Make initial application after fist leaves have expanded Continue on a 10 to 14 day schedule during wet conditions in the spring Make an additional application after harvest
	Minimum retreatment interva Do not apply more than 46 2 Do not apply more than 185	quarts of formulated produc	
RASPBERRIES	Anthracnose Cane Spot Leaf Spot Pseudomonas Blight Purple Blotch Yellow Rust	1 – 3 3	Make fall application after harvest Apply delayed dormant spray after training in the spring Add quart of crop oil per acre
	Anthracnose Cane Spot Leaf Spot Purple Blotch Yellow Rust	1 – 3 3	Apply when leaf buds begin to open and repeat when flower buds show white NOTE Crop injury may occur if applied to foliage under certain environmental conditions such as hot or prolonged moist environmental conditions Discontinue applications if signs of crop injury appear
	Minimum retreatment interva Do not apply more than 23 1 Do not apply more than 116 0	quarts of formulated produc	t per acre per application
STRAWBERRIES	Angular Leaf Spot (Xanthonomas) Leaf Blight Leaf Scorch Leaf Spot	1 – 3 3	Begin application when plants are established and continue on a weekly schedule throughout the season Use the higher rates when conditions favor disease NOTE Discontinue applications if signs of crop injury appear
	Minimum retreatment interval Do not apply more than (17 3 Do not apply more than 94 6) quarts of formulated produ	ict per acre per application
		TREE CROPS	
ALMONDS APRICOTS CHERRIES PLUMS PRUNES	Bacterial Blast (Pseudomonas) Bacterial Canker Shot Hole	1 – 3 3	Make first application before fall rains and a second at late dormant Use higher rates when rainfall is heavy and disease pressure is high. For cherries where disease is severe an additional application at leaf fall may be required
	Blossom Brown Rot Shot Hole	1 – 3 3	Early bloom (popcorn) application Apply before full bloom Use higher rates when rainfall is heavy and disease pressure is high NOTE To avoid plant injury do not use higher rates after full bloom
	application For dormant or late dormant season For bloom/growing season a application	I = 5 days for bloom / growin application do not apply n application do not apply mo application do not apply m	ng season nore than 92 4 quarts of for nulated product per acre per ore than 208 quarts of formulated p oduc per acre per ore than 17 3 quarts of formulated product per acre per
	For bloom/growing season a season	pplication do not apply mo	re than 208 quar's of ormula ed product per ac e i er

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TART CHERRIES	Cherry Leaf Spot (Not for use in CA)	1 – 3 3	Begin applications at the first cover spray (7 to 10 days after shuck split) Repeat as needed at 10 day intervals depending on the use of other cherry leaf spot fungicides in the disease control program Use the high rate under severe disease pressure Use of copper fungicides including GWN-4620 may result in phytotoxicty including yellow leaf blotches bronzing of lower leaf surfaces and premature leaf drop Phytotoxity will be more likely under warm dry conditions The addition of hydrated lime at a rate of 6 to 9 pounds per acre will help reduce phytotoxicity
		al = 7 days for dormant late dor	mant up to pink bud
	For dormant or late dorman per acre per application		not apply more than 92 4 quarts of formulated product
	season		ore than 208 quarts of formulated product per acre per
	application For bloom/growing season		re than 208 quarts of formulated product per acre per
PLUMS	Black Knot (Not for use in CA)	1 – 3 3	Make an application at bud swell up to early bloom for early season disease suppression Apply before full bloom Use the higher rates when rainfall is heavy and disease pressure is high NOTE to avoid plant injury do not use after full bloom
	Minimum retreatment interva	al = 7 days for dormant late dor	
	For dormant or late dormant per acre per application For dormant or late dormant season For bloom/growing season application	up to pink bud do not apply m application do not apply more	not apply more than 92 4 quarts of formulated product ore than 208 quarts of formulated product per acre per than 17 3 quarts of formulated product per acre per han 208 quarts of formulated product per acre per
ALMONDS	Bacterial Blast	1 – 3 3	For bacterial blast control in sprinkler irrigated orchards or where disease is severe apply at 2 week intervals or just before irrigation NOTE Injury may occur from post bloom sprays on almonds especially on Neplus varieties
		I = 7 days for dormant late dorr	
	For dormant or late dorman application For dormant or late dormant season For bloom/growing season application	application do not apply more application do not apply more	eason e than 92 4 quarts of formulated product per acre per than 208 quarts of formulated product per acre per than 17 3 quarts of formulated product per acre per
		application do not apply more t	han 208 quarts of formulated product per acre per
APPLES	season Fire Blight	1 – 3 3	Make applications up to green tip Apply as a full cover spray NOTE Crop injury may occur from
APPLES	season		Make applications up to green tip Apply as a full
APPLES	season Fire Blight	1 – 3 3	Make applications up to green tip Apply as a full cover spray NOTE Crop injury may occur from application discontinue use at / inch green Recommended for processing apples only as fruit russeting and leaf spotting are likely to occur Make one application during bloom Recommended for processing apples only as fruit russeting and leaf spotting are likely to occur NOTE Injury is more likely o occur on stra ns of Golden Delicious & Staymar use of coppe on weak or stressed trees can increas potential for leaf spotting/drop Do not apply prior to 3 rd cover and make 3 applications in rotation with other registered fungicides Do not make more than 2 consecutive
APPLES	season Fire Blight Fire Blight Black Pox Black Rot Brooks Spot Flyspeck Sooty Blotch	1 – 3 3 1 – 3 3	Make applications up to green tip Apply as a full cover spray NOTE Crop injury may occur from application discontinue use at / inch green Recommended for processing apples only as fruit russeting and leaf spotting are likely to occur Make one application during bloom Recommended for processing apples only as fruit russeting and leaf spotting are likely to occur NOTE Injury is more likely o occur on stra ns of Golden Delicious & Staymar use of coppe on weak or stressed trees can increas potential for leaf spotting/drop Do not apply prior to 3 rd cover and make 3 applications in rotation with other registered

· · · · · · · · · · · · · · · · · · ·	European Canker Fire Blight	1	under severe disease conditions		
	Shoot Blast/Blister Spot (Pseudomonas)				
	Minimum retreatment interva	al = 5 days for bloom growing	season ant and between silver tip and green tip		
			than 92.4 quarts of formulated product per acre per		
	per application		ply more than 69 3 quarts of formulated product per acre		
	application		re than 17 3 quarts of formulated product per acre per arts of formulated product per acre per season		
AVOCADOS	Anthracnose Blotch Scab		Apply when bloom buds begin to swell and continue		
		1 – 3 3	application at monthly intervals for five to six applications Use higher rates when conditions favor disease development		
	Minimum retreatment interva				
		quarts of formulated product			
BANANAS	Sigatoka	quarts of formulated product p	For air applications apply a minimum of 10 gallons		
DANANAJ	Sigatora	1 – 3 3	finished spray per acre Apply a minimum of 10 gallons finished spray per acre Apply on a 14 day schedule throughout the wet season Apply at 1 day intervals during dry periods		
	Black Pitting	1 – 3 3	Mix in 100 gallons of water directing to the fruit stem and include the basal portion of the leaf crown Apply during the first and second weeks after fruit		
			emergence		
	Minimum retreatment interva				
		quarts of formulated product p			
		quarts of formulated product p			
CACAO	Black Pod	1 – 3 3	Begin applications at the start of the rainy season and continue while infection periods persist Apply lower rates at 14 to 21 day intervals in high rainfall areas For drier areas use higher rates according to		
			disease incidence and planting density		
	Minimum retreatment interval = 14 days				
		uarts of formulated product pe	er acre per application		
	Do not apply more than 182	quarts of formulated product p	er acre per season		
COFFEE	Coffee Berry Disease	1 – 3 3	Apply first spray after flowering and before onset of rains and then at 21 to 28 day intervals until picking Use higher rates when rainfall is heavy and disease		
			pressure is high		
	Bacterial Blight		Begin spray program applications before the onset of the rains and continue throughout the rainy season at		
			14 to 21 day intervals The critical time of spraying to		
		1 – 3 3	control this disease is just before during and after		
			flowering(s) especially when coinciding with we weather Use higher rates when rainfall is heavy and		
			disease pressure is high		
	Leaf Rust (Hemileia vastatrix)	1 – 3 3	Apply before the onset of rain and then at 21 day intervals while the rains continue Use higher rates		
	Iron Spot (Cercospora) Pink		when rainfall is heavy and disease pressure is high Us concentrate or dilute spray Begin treatments at		
	Disease (Corticium)	1 – 3 3	the start of the wet season and continue at monthly intervals for three applications		
	Minimum retreatment interva	I = 14 days			
	Do not apply more than 24 3	quarts of formulated product p			
FILBERTS	Bacterial Blight	quarte el termalated product p	Apply as a postharvest spray In seasons of heavy		
	Dadenai Diigitt	1 – 3 3	rainfall apply a second spray in the three fourths of the leaves have dropped 11 e higher rates when rainfall is heavy and disease pressure shigh		
	Eastern Filbert Blight	1.00	Apply as a dilute spray in cdequet wa er for thorough coverage Make an application after harvest in October before winter rains begin Additional		
		1 – 3 3	applications should be made at bud swell to bud bread and continued on a tvio week interval or a needed untillea ly Ma. Use higher rates when rainfall is heavy and disease pressure is high		
		I = 14 days quarts of formulated product p quarts of formulated product p			

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MACADAMIA	Anthracnose	1-33	Begin applications at first sign of flowering and repeat on a weekly schedule until just before harvest
	Phytophthora Blight (P		Apply in sufficient water for thorough coverage Apply during raceme development and bloom
	capsici) Raceme Blight (Botrytis cinerea)	1 – 3 3	periods Apply in sufficient water for thorough overage Use higher rates when conditions favor disease development
		3 quarts of formulated product	per acre per application
OLIVES	Olive Knot Peacock Spot	quarts of formulated product p	Apply post harvest before winter rains fall A second
OLIVES		1 – 3 3	application in early spring should be made if disease is severe Apply the high rate for heavy disease pressure of when conditions favor disease development
		al = 30 days 3 quarts of formulated product quarts of formulated product p	
PEACHES	Bacterial Canker/Bacterial		Make dormant application after leaf drop and/or prior
NECTARINES (WEST)	Blast (Pseudomonas) Bacterial Spot (Xanthomonas) Leaf Curl	1 – 3 3	to bud swell Can be used with superior type oils
	Shot Hole		
	Blossom Brown Rot Shot Hole	1 – 3 3	Full cover spray at pink bud
	Bacterial Spot	1 – 3 3	Post bloom application applied at first and second cover sprays NOTE Do not spray 3 weeks prior to harvest Use only recommended rates Spotting of leaves and defoliation may occur from use in cover sprays
	season For bloom/growing season application For bloom/growing season	application do not apply mor	nore than 208 quarts of formulated product per acre per re than 17 3 quarts of formulated product per acre per e than 208 quarts of formulated product per acre per
PEACHES NECTARINES (EAST)	season Bacterial Canker/Bacterial Blast (Pseudomonas) Bacterial Spot	1 3 3	Make dormant application after leaf drop and/or prior to bud swell Can be used with superior type oils
()	(Xanthomonas) Leaf Curl Bacterial Spot	1-33	After initial domant application apply at early bud swell At pink bud make another application Make a
			third application at petal fall. Do not apply after shuck split
	per acre per application		o not apply more than 92 4 quarts of formulated product
		up to pink bud do not apply n	nore than 208 quarts of formulated product per acre per
	season For bloom/growing season application	application do not apply mor	e than 17 3 quarts of formulated product per acre per
	season For bloom/growing season application For bloom/growing season a	application do not apply mor	
PEARS	season For bloom/growing season application	application do not apply mor	e than 17 3 quarts of formulated product per acre per
PEARS	season For bloom/growing season application For bloom/growing season season Fire Blight Blossom Blast (Pseudomonas)	application do not apply mor application do not apply more 1 – 3 3 1 – 3 3	 than 17 3 quarts of formulated product per acre per than 208 quarts of formulated product per acre per Apply at 5 day intervals throughout the bloom period NOTE Do not apply D Anjou pears Excessive dosages may cause fruit russet Apply before fall rains and again during dormancy before spring growth star Use the highur rate when disease pressure is high or whon cond trons favor disease development
PEARS	season For bloom/growing season application For bloom/growing season a season Fire Blight Blossom Blast (Pseudomonas) Minimum retreatment interva Only 1 application per seaso For fall or late dormant ap	application do not apply mor application do not apply more 1-33 1-33 al = 5 days for bloom growing so in permitted for fall late dorma	 than 17 3 quarts of formulated product per acre per than 208 quarts of formulated product per acre per Apply at 5 day intervals throughout the bloom period NOTE Do not apply D Anjou pears Excessive dosages may cause fruit russet Apply before fall rains and again during dormancy before spring growth star Use the highur rate when disease pressure is high or whon cond trons favor disease development
PEARS	season For bloom/growing season application For bloom/growing season a season Fire Blight Blossom Blast (Pseudomonas) Minimum retreatment interva Only 1 application per seaso For fall or late dormant ap application For between silver tip and gi per application	application do not apply more application do not apply more 1-33	 than 17 3 quarts of formulated product per acre per than 208 quarts of formulated product per acre per Apply at 5 day intervals throughout the bloom period NOTE Do not apply D Anjou pears Excessive dosages may cause fruit russet Apply before fall rains and again during dormancy before spring growth star. Use the higher rate when disease pressure is high or whon cond trons favor disease development season nt and between silver tip and green tip

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PECANS	Kernel Rot (Phytophthora cactorum) Shuck Rot Zonate Leaf Spot (Cristulariella pyramidalis)	1 – 3 3	For suppression apply in sufficient water volume to ensure complete coverage at 2 to 4 week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter interval if frequent rainfall occurs	
	Minimum retreatment interva Do not apply more than 24 3	quarts of formulated produ		
PISTACHIOS	Do not apply more than 97 1 Botryosphaeria Panicle Blight Botrytis Blight Late Blight (Alternaria alternate) Septoria Leaf Blight Shoot Blight	1 – 3 3	Make initial application at bud swell and repeat on a 14 day schedule as dictated by disease conditions If disease conditions are severe use the higher rates and shorter spray interval	
	Minimum retreatment interva Do not apply more than 24 3 Do not apply more than 97 1	quarts of formulated produ		
QUINCE	Fire Blight	1 – 3 3	Apply at 5 day intervals throughout the bloom period Apply in adequate water volume for thorough coverage	
	For fall or late dormant ap application For between silver tip and gr per application For bloom/growing season application	plication do not apply mo een tip application do not a application do not apply n	mant and between silver tip and green tip ore than 92.4 quarts of formulated product per acre per apply more than 69.3 quarts of formulated product per acre nore than 17.3 quarts of formulated product per acre per quarts of formulated product per acre per season	
WALNUTS	Walnut Blight	1 – 3 3	Apply first spray at early pre bloom prior to or when catkins are partially expanded Make additional applications during bloom and early nutlet stage or as needed if frequent rainfall occurs Thorough coverage of catkins leaves and nutlets is essential for effective control NOTE Adequate control may not be obtained when copper tolerant strains of Xanthomonas bacteria are present	
	Minimum retreatment interval = 7 days Do not apply more than 46 2 quarts of formulated product per acre per application Do not apply more than 370 quarts of formulated product per acre per season			
·		VEGETABLES		
BEANS (DRY GREEN)	Brown Spot Common Blight Downy Mildew Halo Blight	1 – 3 3	Use the higher rates when conditions favor disease development For protective sprays make fist application when plants are 6 inches high repeat on a 7 to 14 day schedule depending upon environmental conditions	
	Minimum retreatment interva Do not apply more than 9 13 Do not apply more than 54 8	quarts of formulated produc		
CARROTS	Alternaria Leaf Spot Cercospora Leaf Spot	1 – 3 3	Begin applications when disease first threatens and repeat at 7 to 14 day intervals or as needed depending on disease severity	
	Minimum retreatment interva Do not apply more than 11 6 Do not apply more than 57 8	quarts of formulated produc	ct per acre per application	
CELERY CELERIAC	Bacterial Blight Cercospora Early Blight Septoria Late Blight	1 – 3 3	Begin applications when plants are first established in the field repeating at 7 day intervals depending on disease severity and environmental conditions	
	Minimum retreatment interva Do not apply more than 11 6 Do not apply more than 61 2	quarts of formulated produc		

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CRUCIFERS (BROCCOLI BRUSSELS SPROUTS CABBAGE CAULIFLOWER COLLARD GREENS	Black Leaf Spot (Alternaria) Black Rot (Xanthomonas) Downy Mildew	1 – 3 3	Apply at 7 to 10 day intervals Begin applications after transplants are set in the field or shortly after emergence of field seeded drops or when conditions favor disease development. Use higher rates when conditions favor disease NOTE Reddening of older leaves may occur on broccoli and a flecking of wrapper leaves may occur on cabbage	
MUSTARD				
GREENS TURNIP	Minimum retreatment interval			
GREENS)	Do not apply more than 6 12			
	Do not apply more than 30 6	quarts of formulated produ		
CUCURBITS (CANTALOUPES CUCUMBERS HONEYDEW MUSKMELON PUMPKINS	Alternaria Leaf Spot Angular Leaf Spot Anthracnose Downy Mildew Gummy Stem Blight Powdery Mildew Watermelon Bacterial Fruit Blotch (Suppression)	1 – 3 3	Begin application when conditions are favorable for disease development Repeat at 5 to 7 day intervals Use shorter intervals when conditions are favorable for disease development NOTE Cop injury may occur from applications at shorter intervals Discontinue use if injury occurs	
SQUASH	Minimum retreatment interval	= 5 days		
WATERMELONS)	Do not apply more than 12 1	quarts of formulated produ	ct per acre per application	
	Do not apply more than 60 7	quarts of formulated produ	ct per acre per season	
EGGPLANT	Alternaria Blight Anthracnose Phomopsis	1 – 3 3	Begin applications prior to development of disease symptoms Repeat sprays at 7 to 10 day intervals or as needed depending on disease severity	
	Minimum retreatment interval		-4	
	Do not apply more than 9 13			
	Do not apply more than 91 3 of	quarts of formulated produc		
LETTUCE	Downy mildew	1 – 3 3	Apply by ground or air when disease appears and repeat at 7 10 day intervals Slight injury may occur under adverse weather conditions	
	Minimum retreatment interval = 5 days			
	Do not apply more than 11 6 o			
	Do not apply more than 92.4 d	quarts of formulated produc		
ONIONS GARLIC	Bacterial Blight Downy Mildew Purple Blotch	1 – 3 3	Begin when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals or as needed depending upor disease pressure Can cause phytotoxicity to leaves	
	Minimum retreatment interval Do not apply more than 11 6 o Do not apply more than 69 3 o	quarts of formulated produc		
PEAS	Powdery Mildew	1 – 3 3	Begin applications when disease symptoms first appear and repeat at weekly intervals as needed Us higher rats when conditions favor disease development	
	Minimum retreatment interval			
	Do not apply more than 9 13 c	quarts of formulated produc	ct per acre per application	
	Do not apply more than 45 6 c	·		
PEPPERS	Anthracnose Bacterial Spot Cercospora Leaf Spot	1 – 3 3	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 when conditions are favorable for disease development	
	Minimum retreatment interval = 3 days			
	Do not apply more than 9 13 c			
	Do not apply more than 137 q	uarts of formulated produc		
SPINACH	Anthracnose Blue Mold Cercospora Leaf Spot White Rust	1 – 3 3	Begin applications when disease first appears or when conditions favor disease development Repeat at 7 to 10 day intervals as needed. Use higher rates when conditions favor disease development NOTE Flecking may occur on spinach leaves	
	Minimum retreatment interval Do not apply more than 9 13 of Do not apply more than 6 6	quarts of formulated produc		
	Do not apply more than 45.6 c Cercospora Leaf Spot	uans or formulated produc	Begin applications when conditions first favor	
		1 – 3 3	disease development and repeat at 10 to 14 day intervals or as needed. Use the higher rate when disease is severe	
	Minimum retreatment interval Do not apply more than 151 of Do not apply more than 90 8 of	quarts of formulated produc		

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Anthracnose Bacterial Speck Bacterial Spot Early Blight Gray Leaf Mold Late Blight	1 – 3 3	Begin applications when disease first threatens and repeat at 5 to 10 day intervals or as needed depending on disease severity. Use higher rates		
		when conditions favor disease development		
	quarts of formulated produc	Begin applications when disease first threatens and		
Bacterial Spot Early Blight Gray Leaf Mold Late Blight	1 – 3 3	repeat at 5 to 10 day intervals or as needed depending on disease severity. Use higher rates		
		when conditions favor disease development		
	ts of formulated product pe			
	1 – 3 3	Begin applications when plants are first established in the field repeating at 7 to 14 day intervals depending on disease severity and environmental conditions Do not exceed four applications per crop Apply using ground equipment at no less than 50 gallons of water per acre		
Do not apply more than 24 5 c	quarts of formulated produc	t per acre per season		
	VINES			
Black Rot Downy Mildew		Begin applications at late dormant up to bud bread		
Phomopsis Powdery Mildew	1 – 3 3	with subsequent applications throughout the season depending up on disease severity NOTE Foliage injury may occur on copper sensitive varieties such as Concord Delaware Niagara and Rosette		
	uarts of formulated product			
Downy Mildew	1 – 3 3	Make crown treatment after pruning but before training After training make additional applications at 7 to 10 day intervals or as needed Discontinue use 2 weeks before harvest		
Minimum retreatment interval = 10 days				
Do not apply more than 6 12 quarts of formulated product per acre per application				
	uarts of formulated produc			
		Apply in 200 gallons of water per acre Make		
	1 – 3 3	applications on a monthly basis A maximum of three		
		applications may be made		
•				
Do not apply more than 24 3 quarts of formulated product per acre per application				
Do not apply more than 72 8 c		t per acre per season		
	MISCELLANEOUS			
Anthracnose		Make initial application wat before flowering and		
	1 – 3 3	Make initial application just before flowering and		
	·	repeat on a weekly schedule		
Minimum retreatment interval	= 7 days	repeat on a weekly schedule		
Do not apply more than 36 4 q	= 7 days uarts of formulated produc	repeat on a weekly schedule		
Do not apply more than 36 4 q Do not apply more than 146 q	= 7 days uarts of formulated produc	repeat on a weekly schedule t per acre per application per acre per season		
Do not apply more than 36 4 q	= 7 days uarts of formulated produc	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and		
Do not apply more than 36 4 q Do not apply more than 146 q Anthracnose Minimum retreatment interval	= 7 days juarts of formulated product uarts of formulated product 1 – 3 3 = 7 days	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage		
Do not apply more than 36 4 o Do not apply more than 146 o Anthracnose Minimum retreatment interval Do not apply more than 24 3 o	= 7 days juarts of formulated product aarts of formulated product 1 – 3 3 = 7 days juarts of formulated product	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvesi Apply in sufficient water for thorough coverage t per acre per application		
Do not apply more than 36 4 q Do not apply more than 146 qu Anthracnose Minimum retreatment interval Do not apply more than 24 3 q Do not apply more than 121 qu	= 7 days juarts of formulated product aarts of formulated product 1 – 3 3 = 7 days juarts of formulated product	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage t per acre per application per acre per season		
Do not apply more than 36 4 o Do not apply more than 146 o Anthracnose Minimum retreatment interval Do not apply more than 24 3 o	= 7 days juarts of formulated product aarts of formulated product 1 – 3 3 = 7 days juarts of formulated product	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage t per acre per application per acre per season Begin applications when plants are established in the field Repeat application, every 7 o 10 days as dictated by disease cond tions		
Do not apply more than 36 4 q Do not apply more than 146 q Anthracnose Minimum retreatment interval Do not apply more than 24 3 q Do not apply more than 121 q Downy Mildew	= 7 days uarts of formulated product 1 – 3 3 = 7 days uarts of formulated product uarts of formulated product 1 – 3 3	t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage t per acre per application per acre per season Begin applications when plants are established in the field Repeat application_every 7 o 10 days as		
Do not apply more than 36 4 q Do not apply more than 146 q Anthracnose Minimum retreatment interval Do not apply more than 24 3 q Do not apply more than 121 q Downy Mildew Minimum retreatment interval	= 7 days uarts of formulated product 1 - 3 3 = 7 days uarts of formulated product uarts of formulated product 1 - 3 3 = 7 days	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvesi Apply in sufficient water for thorough coverage t per acre per application per acre per season Begin applications when plants are established in the field Repeat application, every 7 o 10 days as dictated by disease cond tions. If disease pressure is high use the shorter spray interval		
Do not apply more than 36 4 q Do not apply more than 146 q Anthracnose Minimum retreatment interval Do not apply more than 24 3 q Do not apply more than 121 q Downy Mildew	 7 days uarts of formulated product 1 - 3 3 7 days uarts of formulated product 1 - 3 3 1 - 3 3 7 days 1 - 3 3 	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage t per acre per application per acre per season Begin applications when plants are established in the field Repeat application, every 7 o 10 days as dictated by disease cond tions if disease pressure is high use the shorter spray interval t per acre per application		
Do not apply more than 36 4 o Do not apply more than 146 o Anthracnose Minimum retreatment interval Do not apply more than 24 3 o Do not apply more than 121 o Downy Mildew Minimum retreatment interval Do not apply more than 6 12 o	 7 days uarts of formulated product 1 - 3 3 7 days uarts of formulated product 1 - 3 3 1 - 3 3 7 days 1 - 3 3 	repeat on a weekly schedule t per acre per application per acre per season Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water for thorough coverage t per acre per application per acre per season Begin applications when plants are established in the field Repeat application, every 7 o 10 days as dictated by disease cond tions. If disease pressure is high use the shorter spray interval t per acre per application		
	Bacterial Spot Early Blight Gray Leaf Mold Late Blight Septoria Leaf Spot Minimum retreatment interval Do not apply more than 92.4 of Anthracnose Bacterial Speck Bacterial Spot Early Blight Gray Leaf Mold Late Blight Septoria Leaf Spot Minimum retreatment interval Do not apply more than 6.12 of Do not apply more than 201 quar Cercospora Leaf Spot Minimum retreatment interval Do not apply more than 6.12 of Do not apply more than 6.12 of Do not apply more than 6.12 of Do not apply more than 24.5 of Black Rot Downy Mildew Phomopsis Powdery Mildew Minimum retreatment interval Do not apply more than 34.7 of Do not apply more than 34.7 of Do not apply more than 34.7 of Do not apply more than 34.7 of Do not apply more than 30.6 of Erwinia herbicola Pseudomonas fluorescens Pseudomonas syringae	Bacterial Spot Early Blight Gray Leaf Mold Late Blight Septoria Leaf Spot 1 – 3 3 Minimum retreatment interval = 3 days Do not apply more than 18 5 quarts of formulated product Do not apply more than 92 4 quarts of formulated product Anthracnose Bacterial Speck Bacterial Spot Early Blight Gray Leaf Mold Late Blight Septona Leaf Spot 1 – 3 3 Minimum retreatment interval = 3 days Do not apply more than 6 12 quarts of formulated product per Cercospora Leaf Spot 1 – 3 3 Minimum retreatment interval = 7 days Do not apply more than 6 12 quarts of formulated product per Cercospora Leaf Spot 1 – 3 3 Minimum retreatment interval = 7 days Do not apply more than 6 12 quarts of formulated product per Cercospora Leaf Spot 1 – 3 3 Minimum retreatment interval = 7 days Do not apply more than 6 12 quarts of formulated product Do not apply more than 24 5 quarts of formulated product Do not apply more than 34 7 quarts of formulated product Do not apply more than 321 quarts of formulated product Do not apply more than 321 quarts of formulated product Downy Mildew Minimum retreatment interval = 10 days Do not apply more than 30 6 quarts of formulated product Do not apply more than 30 6 quarts of formulated product Do not apply more than 30 6 quarts of formulated product Do not apply more than 30 6 quarts of formulated product Do not apply more than 24 3 quarts of formulated product Do not apply more than 24 3 quarts of formulated product Do not apply more than 24 3 quarts of formulated product Do not apply more than 24 3 quarts of formulated product Do not apply more than 24 3 quarts of formulated product		

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	Do not apply more than 9 13 Do not apply more than 45 6			
DOUGLAS FIR	Rhabdocline Needlecast	1 – 3 3	Begin applications at bud break and repeat at 3 to 4 week intervals Apply in a tank mix with another registered compatible fungicide if moderate to severe disease pressure is present	
	Minimum retreatment interval Do not apply more than 23.1	quarts of formulated produ		
	Do not apply more than 231 of	uarts of formulated produce		
GINSENG	Alternaria Leaf Blight Stem Blight	1 – 3 3	Begin GWN-4620 + Rovral applications as soon as plants have emerged in spring Applications should be repeated every 7 days until plants become dormant Apply fungicides at least 8 hours before rain Use of a spreader sticker or sticker is advised NOTE Alternaria Leaf and stem Blight is most severe in humid conditions such as those found in the dense canopies of 2 to 4 year old Ginseng. It is very important that the stems be thoroughly covered with fungicide therefore use a spray apparatus that distributes the fungicide throughout the canopy	
	Minimum retreatment interval	= 7 days		
	Do not apply more than 12 1 of	quarts of formulated produ	ct per acre per application	
	Do not apply more than 60 7 c	quarts of formulated produ	ct per acre per season	
GUAVA	Anthracnose Red Algae	1 – 3 3	Make initial application just before flowering and repeat on a weekly schedule until just before harves Apply in sufficient water volume for thorough coverage	
	Minimum retreatment interval	= 7 days		
	Do not apply more than 14 2 c			
	Do not apply more than 56 8 c	uarts of formulated produ		
LITCHI	Anthracnose	1 – 3 3	Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water volume for though coverage	
	Minimum retreatment interval Do not apply more than 14 2 o Do not apply more than 56 8 o	uarts of formulated produ	ct per acre per season	
OKRA	Anthracnose Bacterial Leaf Spot Leaf Spots Pod Spot Powdery Mildew	1 – 3 3	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 shorte spray intervals when conditions favor disease	
	Minimum retreatment interval	= 5 days		
	Do not apply more than 12.1 quarts of formulated product per acre per application			
	Do not apply more than 60 7 c	uarts of formulated produ		
LIVE OAKS	Ball Moss	1 – 3 3	Apply 4 quarts per 100 gallons of water in the spring when Ball Moss is actively growing using 1 5 gallons of spray per foot of tree height Make sure to wet Bal Moss tufts thoroughly A second application may be required after 12 months	
	Minimum retreatment interval			
	Do not apply more than 23 1 c			
	Do not apply more than 231 q	uarts of formulated produc		
MAMEY SAPOTE	Algal Leaf Spot Anthracnose	1 – 3 3	Apply when conditions favor disease development Repeat on 14 to 28 day schedule as a disease severity and environmental conditions dictate Use higher rates when conditions favor disease development	
	Minimum retreatment interval	= 14 days		
	Do not apply more than 24 3 c	uarts of formulated produ		
	Do not apply more than 97 1 c	uarts of formulated produ		
PAPAYAS	Anthracnose	1 – 3 3	Apply before disease appears Apply at 10 to 14 day intervals under light diseal or pre-sure and at 5 to 7 day intervals under heally disease pressure. The addition of an approved spreader is ecommended Use higher rates when conditions favor disease development.	
	Minimum retreatment interval	= 7 days		
	Do not apply more than 30 4 c		ct per acre per application	

PARSLEY	Bacterial Blight (Pseudomonas sp)	1 – 3 3	Begin applications when plants are fist established in the field and repeat at 5 to 7 day intervals depending upon disease severity and environmental conditions
	Minimum retreatment interval Do not apply more than 11.6	quarts of formulated product	per acre per application
	Do not apply more than 69 3 of	quarts of formulated product	
PASSION FRUIT	Anthracnose	1 – 3 3	Make initial application just before flowing and repeat on a weekly schedule until just before harvest Apply in sufficient water volume for though coverage
	Minimum retreatment interval	= 7 days	
	Do not apply more than 27 3 of	quarts of formulated product	per acre per application
	Do not apply more than 109 g	uarts of formulated product	per acre per season
SUGAR APPLE	Anthracnose	1 – 3 3	Make initial application just before flowering and repeat on a weekly schedule until just before harvest Apply in sufficient water volume for thorough coverage
	Minimum retreatment interval = 7 days		
	Do not apply more than 36.4 quarts of formulated product per acre per application		
	Do not apply more than 146 q		
SYCAMORE	Anthracnose	1 – 3 3	Apply as a full cover spray Apply in 100 gallons of water or sufficient volume for thorough coverage Make first application at bud crack and second application 7 to 10 days later (at 10 / leaf expansion) Use higher rates when conditions favor disease development
	Minimum retreatment interval	= 7 days	
	Do not apply more than 23 1 c	juarts of formulated product	per acre per application
	Do not apply more than 231 q	uarts of formulated product p	per acre per season

SPECIFIC DIRECTION FOR SPRAY APPLICATIONS IN GREENHOUSE FIELD LANDSCAPE AND INTERIOR

Annual and Perennial Bedding Plants Potted Flowering Crops Tropical Foliage Cut Flower Crops and Nursery Crops Spray for thorough foliage coverage Re spray rates and intervals vary with severity of disease and adversity of environmental conditions. In the event of heavy disease pressure intervals can be shortened to a minimum of 7 days. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Use of low volume equipment is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections. Applications on actively growing tissue may be more effective than applications on dormant tissue.

APPLICATION DIRECTIONS

Do not apply more than 23.1 quarts of formulated product per acre per application Do not apply more than 23.1 quarts of formulated product per acre per season

CROP	PEST	QUARTS PER 100 GALLONS OF TOTAL SPRAY SOLUTION
ANNUAL AND PERENNIAL BEDDING PLANTS Such as but not limited to		
ALYSSUM	Botrytis	1 –3 3
	Downy Mildew	1 –3 3
BEGONIA	Botrytis	1 –3 3
	Powdery Mildew	1 –3 3
	Xanthomonas	1 –3 3
DAYLILY	Botrytis	1 –3 3
	Erwinia	1 –3 3
	Powdery Mildew	1 –3 3
DELPHINIUM	Pseudomonas	1 –3 3
DUSTY MILLER	Alternaria	1 –3 3
	Botrytis	1 -3 3
FUCHSIA	Botrytis	1 –3 3
	Powdery Mildew	1 –3 3
GERANIUM	Botrytis	1 –3 3
	Rust (preventive)	1 –3 3
	Rust (therapeutic)	1 –3 3
	Pseudomonas (preventive)	1 –3 3
	Pseudomonas (therapeutic)	1 –3 3
	Xanthomonas (preventive	1 3 3
	Xanthomonas (therapeutic)	1 –3 3

IMPATIENS	0 Ho	1 -3 3
INIPATIENS	Alternaria Botrytis	1-33
	Pseudomonas	1 -3 3
NEW GUINEA IMPATIENS	Botrytis	1 -3 3
	Powdery Mildew	1 -3 3
IPOMOEA	Pseudomonas	1 -3 3
PANSY	Botrytis	1 –3 3
	Cercospora	1 -3 3
	Phytophthora	1 –3 3
PERENNIALS	Botrytis	1 –3 3
	Downy Mildew	1 –3 3
	Powdery Mildew	1 -3 3
PERIWINKLE / VINCA	Botrytis	1-33
	Phytophthora Destantial Phytopht	1-33
RANUNCULUS	Bacterial Blight Botrytis	<u>1 –3 3</u> 1 –3 3
SALVIA	Downy Mildew	1 -3 3
SNAPDRAGON	Botrytis	1 -3 3
	Downy Mildew	1 –3 3
	Rust	1 –3 3
ZINNIA	Botrytis	1 -3 3
	Pseudomonas	1 –3 3
	Xanthomonas	1 –3 3
P AFRICAN VIOLET	OTTED FLOWERING CROPS Such as but not limited to	1.22
	Botrytis Powdery Mildew	<u>1 –3 3</u> 1 –3 3
AZALEA	Botrytis	1-33
	Colletotrichum	1-33
	Cylindrocladium	1-33
CALLA LILY	Botrytis	1-33
	Erwinia	1 –3 3
CHRYSANTHEMUM	Botrytis	1 -3 3
	Erwinia	1 –3 3
	Powdery Mildew	1 –3 3
CYCLAMEN	Botrytis	1 –3 3
	Erwinia	1-33
EATER LILY	Botrytis	1-33
GERBERA	Botrytis	<u>1 –3 3</u> 1 –3 3
HYDRANGEA	Powdery Mildew Botrytis	1-33
HIDRANGEA	Powdery Mildew	1-33
KALANCHOE	Botrytis	1-33
IN LANGING L	Erwinia	1 –3 3
	Powdery Mildew	1-33
LISIANTHUS	Botrytis	1 –3 3
ORCHID	Botrytis	1 –3 3
	Erwinia	1 –3 3
	Pseudomonas	1 –3 3
	Xanthomonas	1 –3 3
POINSETTIA	Botrytis	1 –3 3
	Powdery Mildew	1 –3 3
	(preventive)	
	Powdery Mildew	1 –3 3
	(therapeutic)	1.22
	Scab Erwinia (preventive)	<u>1 –3 3</u> 1 –3 3
	Erwinia (preventive) Erwinia (therapeutic)	
	Xanthomonas	<u>1 –3 3</u> 1 –3 3
	(preventative)	-53
	Xanthomonas (therapeutic)	1 –3 3 – –
PRIMULA	Botrytis	1 –3 3
· · · · · · · · · · · · · · · · · · ·	Erwinia	1 –3 3
		ı –3 3
ROSE BUSH	Black Spot (preventive)	
ROSE BUSH	Black Spot (preventive) Black Spot (therapeutic)	-3 3
ROSE BUSH		<u>-33</u> 1 33
ROSE BUSH	Black Spot (therapeutic)	33

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	Cylindrocladium (therapeutic)	1 –3 3
	Powdery Mildew (preventive)	1 –3 3
	Powdery Mildew (therapeutic)	1 –3 3
TULIP	Botrytis	1 –3 3
	TROPICAL FOLIAGE CROPS	
	Such as but not limited to	
DRACAENA	Rust	1-33
HIBISCUS	Botrytis Pseudomonas	<u>1 –3 3</u> 1 –3 3
	Xanthomonas	1-33
IVY	Bacterial Leaf Spot	1 –3 3
	Botrytis	1 –3 3
SPATHIPHYLLUM	Botrytis	1 –3 3
	Cylindrocladium	1-33
TROPICAL FOLLACE	Phytophthora	<u>1 –3 3</u> 1 –3 3
TROPICAL FOLIAGE (GENERAL)	Botrytis Erwinia	1-33
(GENERAE)	Powdery Mildew	1-33
	Pseudomonas	1 –3 3
	Xanthomonas	1 -3 3
HERBACEOUS	AND WOODY STOCK PLANTS A	ND CUTTINGS
When using rooted callused days after planting or sticking	to 3 days after sticking in rooting me seconds prior to sticking or unrooted cuttings shipped in sp or dip cuttings for a few seconds p ease pressure repeat in 7 to 10 day	ray cuttings to drench 2 to 3 rior to sticking Under severe
AZALEA	Cylindrocladium	1 –3 3
CHRYSANTHEMUM	Erwinia	1-33
GERANIUM	Botrytis	<u> </u>
	Xanthomonas	1 -3 3
	Xanthomonas	1-33
MINI ROSE POINSETTIA	Cylindrocladium Botrytis	<u>1 –3 3</u> 1 –3 3
romoerna	Erwinia	1-33
	Scab	1-33
TROPICAL FOLIAGE	Cylindrocladium	1 3 3
	Erwinia	1 –3 3
	CUT FLOWER CROPS Such as but not limited to	
GERBERA	Botrytis	1-33
GLADIOLA LISIANTHUS	Botrytis	1-33
ORCHID	Botrytis Botrytis	<u>1 –3 3</u> 1 –3 3
ROSE	Botrytis	1-33
ZINNIA	Botrytis	1 –3 3
	NURSERY CROPS Such as but not limited to	
AZALEA	Anthracnose	1 -3 3
AZALEA	Anthracnose Botrytis	1 –3 3
AZALEA	Anthracnose Botrytis Cylindrocladium	<u>1 –3 3</u> 1 <u>–</u> 3 3
	Anthracnose Botrytis Cylindrocladium Phytophthora	<u>1 –3 3</u> <u>1 –3 3</u> 1 –3 3
BUXUS	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella	1-33 1-33 1-33 1-33
	Anthracnose Botrytis Cylindrocladium Phytophthora	1-33 1-33 1-33 1-33 1-33 1-33
BUXUS	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose	1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33
BUXUS	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose Botrytis Powdery Mildew Anthracnose	1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33
BUXUS DOGWOOD EUONYMUS	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose Botrytis Powdery Mildew Anthracnose Botrytis	1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33
BUXUS DOGWOOD EUONYMUS HAWTHORN	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose Botrytis Powdery Mildew Anthracnose Botrytis Cedar Apple Rust	1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33 1-33
BUXUS DOGWOOD EUONYMUS	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose Botrytis Powdery Mildew Anthracnose Botrytis Cedar Apple Rust Botrytis	$ \begin{array}{r} 1-33\\ 1-33\\ 1-33\\ \hline 1-$
BUXUS DOGWOOD EUONYMUS HAWTHORN	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose Botrytis Powdery Mildew Anthracnose Botrytis Cedar Apple Rust Botrytis Cercospora	$ \begin{array}{r} 1 -33 \\ 1 -3 \\$
BUXUS DOGWOOD EUONYMUS HAWTHORN	Anthracnose Botrytis Cylindrocladium Phytophthora Volutella Anthracnose Botrytis Powdery Mildew Anthracnose Botrytis Cedar Apple Rust Botrytis	$ \begin{array}{r} 1-33\\ 1-33\\ 1-33\\ \hline 1-$

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INDIAN HAWTHORN	Botrytis	1 –3 3
	Entomosporium	1 -3 3
JAPANESE MAPLE	Botrytis	1 -3 3
	Pseudomonas Verticillium	1-33
LILAC	Botrytis	<u>1 -3 3</u> 1 -3 3
LILAC	Powdery Mildew	1 -3 3
	Pseudomonas	1 -3 3
ROSACEAE SUCH AS	Apple Scab	1 -3 3
COTONEASTER MALUS	Botrytis	1 -3 3
MOUNTAIN ASH	Fire Blight	1 –3 3
ORNAMENTAL CRABAPPLE	Pseudomonas	1 –3 3
ORNAMENTAL PEAR		
PYRACANTHA		
RHODODENDRON	See Soil Drench	1 3 3
ROSE	Application for Rates See Flowering Potted	1 –3 3
	Crops for Rates	1 -o o
WOODY NURSERY CROPS	Botrytis	1 –3 3
	Powdery Mildew	1 -3 3
	Pseudomonas	1 -3 3
	Rhizoctonia	1 -3 3
NON BEARING FRUIT TREES		
AND VINES (DO NOT APPLY TO TREES THAT WILL BEAR FRUIT WITHIN ONE YEAR )		
	Fire Blight	1_33
APPLE GRAPE POST HARVEST DI	P APPLICATIONS ON CUT FLOW	
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA	Botrytis P APPLICATIONS ON CUT FLOV owers/buds for a few seconds soor mixture to pH 5 5 – 6 5 Botrytis	1 –3 3 VER CROPS a after cutting Adjust dip 1 –3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA	Botrytis         P APPLICATIONS ON CUT FLOW         pwers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis	1 –3 3 <b>VER CROPS</b> a after cutting Adjust dip <u>1 –3 3</u> 1 –3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA	Botrytis         P APPLICATIONS ON CUT FLOW         powers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis         Botrytis	1 –3 3 <b>VER CROPS</b> a after cutting Adjust dip <u>1 –3 3</u> <u>1 –3 3</u> 1 –3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA ROSE	Botrytis         P APPLICATIONS ON CUT FLOW         powers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis         Botrytis         Botrytis         Botrytis         Botrytis         Botrytis	1 –3 3 <b>VER CROPS</b> a after cutting Adjust dip 1 –3 3 1 –3 3 1 –3 3 1 –3 3 1 –3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA	Botrytis         P APPLICATIONS ON CUT FLOW         pwers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis	1 –3 3 <b>VER CROPS</b> a after cutting Adjust dip <u>1 –3 3</u> <u>1 –3 3</u> 1 –3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA	Botrytis         P APPLICATIONS ON CUT FLOW         powers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis         Botrytis         Botrytis         Botrytis         Botrytis         Botrytis	1 -3 3 <b>VER CROPS</b> a fiter cutting Adjust dip 1 -3 3 1 -3 3 1 -3 3 1 -3 3 1 -3 3 1 -3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA	Botrytis         P APPLICATIONS ON CUT FLOW         powers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis <th>1 -3 3 <b>VER CROPS</b> a fiter cutting Adjust dip 1 -3 3 1 -3 3 1 -3 3 1 -3 3 1 -3 3 1 -3 3</th>	1 -3 3 <b>VER CROPS</b> a fiter cutting Adjust dip 1 -3 3 1 -3 3 1 -3 3 1 -3 3 1 -3 3 1 -3 3
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA Specific Directions Dip bulbs fi CALLA LILY SOIL DRENCH APPLICATIONS	Botrytis         P APPLICATIONS ON CUT FLOW         pwers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Bull B DIP APPLICATIONS         or 5 minutes or spray bulbs to drip planting         Erwinia         S – GEENHOUSE FIELD LANDS	1 -3 3 <b>NER CROPS</b> a fitter cutting Adjust dip $1 -3 3$ $1 -3 3$ $1 -3 3$ $1 -3 3$ $1 -3 3$ then allow to dry before $1 -3 3$ <b>SCAPE AND INTERIOR</b>
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA E Specific Directions Dip bulbs fi CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET	Botrytis         P APPLICATIONS ON CUT FLOW         powers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis <td>1 -3 3 WER CROPS after cutting Adjust dip $1 -3 3$ b then allow to dry before $1 -3 3$ CAPE AND INTERIOR $1 -3 3$</td>	1 -3 3 WER CROPS after cutting Adjust dip $1 -3 3$ $1 -3 3$ $1 -3 3$ $1 -3 3$ $1 -3 3$ b then allow to dry before $1 -3 3$ CAPE AND INTERIOR $1 -3 3$
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA Specific Directions Dip bulbs for CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET ASTER	Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis <td>1 -3 3  WER CROPS after cutting Adjust dip $1 -3 3$ b then allow to dry before $1 -3 3$ GCAPE AND INTERIOR $1 -3 3$ $1 -3 3$</td>	1 -3 3  WER CROPS after cutting Adjust dip $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ b then allow to dry before $     1 -3 3 $ GCAPE AND INTERIOR $     1 -3 3 $ $     1 -3 3$
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut fic ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA E Specific Directions Dip bulbs fi CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET	Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Botrytis <td>1 -3 3  WER CROPS after cutting Adjust dip $1 -3 3$ b then allow to dry before $1 -3 3$ CAPE AND INTERIOR $1 -3 3$ $1 -3 3$ $1 -3 3$ $1 -3 3$</td>	1 -3 3  WER CROPS after cutting Adjust dip $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ b then allow to dry before $     1 -3 3 $ CAPE AND INTERIOR $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3 $ $     1 -3 3$
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA E Specific Directions Dip bulbs for CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET ASTER AZALEA	Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         BULB DIP APPLICATIONS         or 5 minutes or spray bulbs to drip planting         Envinia         S - GEENHOUSE FIELD LANDS         Phytophthora         Phytophthora         Cylindrocladium         Rhizoctonia	1 -3 3  WER CROPS after cutting Adjust dip $     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     0 then allow to dry before      1 -3 3  SCAPE AND INTERIOR      1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3  $
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA E Specific Directions Dip bulbs for CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET ASTER AZALEA CYCLAMEN	Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         BULB DIP APPLICATIONS         or 5 minutes or spray bulbs to drip planting         Erwinia         S - GEENHOUSE FIELD LANDS         Phytophthora         Phytophthora         Cylindrocladium         Rhizoctonia         Erwinia	1 -3 3  WER CROPS after cutting Adjust dip $     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     0 then allow to dry before      1 -3 3  SCAPE AND INTERIOR      1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3     1 -3 3  $
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA Specific Directions Dip bulbs for CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET ASTER AZALEA CYCLAMEN FERNS	Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         BULB DIP APPLICATIONS         or 5 minutes or spray bulbs to drip         planting         Erwinia         S - GEENHOUSE FIELD LANDS         Phytophthora         Phytophthora         Cylindrocladium         Rhizoctonia         Erwinia	$     \begin{array}{r}       1 -3 3 \\       WER CROPS \\       a fter cutting Adjust dip \\       \hline       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       0 then allow to dry before \\       \hline       1 -3 3 \\       0 then allow to dry before \\       \hline       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\      1 -3 3 \\      1 -3 3 \\ $
APPLE GRAPE POST HARVEST DI Specific Directions Dip cut flo ALSTROMERIA FREESIA GLADIOLA ROSE SWEETPEA Specific Directions Dip bulbs for CALLA LILY SOIL DRENCH APPLICATIONS AFRICAN VIOLET ASTER AZALEA CYCLAMEN FERNS GERANIUM	Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         BOLB DIP APPLICATIONS         or 5 minutes or spray bulbs to drip planting         Erwinia         S - GEENHOUSE FIELD LANDS         Phytophthora         Phytophthora         Cylindrocladium         Rhizoctonia         Erwinia         Rhizoctonia         Botrytis	$     \begin{array}{r}       1 -3 3 \\       WER CROPS \\       after cutting Adjust dip \\       \hline       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       0 then allow to dry before \\       \hline       1 -3 3 \\       0 then allow to dry before \\       \hline       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\       1 -3 3 \\      1 -3 3 \\      1 -3 3 \\  $
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#### ORNAMENTAL TREES

CROP	PEST	QUARTS PER 100 GALLONS OF TOTAL SPRAY SOLUTION	COMMENTS
DOUGLAS FIR	Rhabdocline Needlecast	1 –3 3	Begin applications at bud break and repeat at 3 to 4 week intervals Apply in a tank mix with another registered compatible fungicide if moderate to severe disease pressure is present
LIVE OAKS	Ball Moss	1 –3 3	Apply 4 quarts per 100 gallons of water in the spring when Ball Moss is actively growing using 1.5 gallons of spray per foot of tree height Make sure to wet Ball Moss tufts thoroughly A second application may be required after 12 months
SYCAMORE	Anthracnose	1 –3 3	Apply as a full cover spray Apply in 100 gallons of water or sufficient volume for thorough coverage Make first application at bud crack and second application 7 to 10 days later (at 10 / leaf expansion) Use higher rates when conditions favor disease development

CROP	PEST	QUARTS PER 100 GALLONS OF TOTAL SPRAY SOLUTION	COMMENTS
TURFGRASS	Algae	13 3	Apply in 5 gallons of water to control algae This product may be used alone or in combination with other registered fungicides as a maintenance spray
		city may occur depending upon varieta atment interval = 10 days	I differences If injury occurs discontinue use

#### STORAGE AND DISPOSAL

DO NOT contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Store product in original container only away from other pesticides fertilizers food or feed PESTICIDE DISPOSAL Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility CONTAINER DISPOSAL Nonrefillable container Do not reuse or refill this container Offer for recycling if available Clean container promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container / full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

#### FOR 24 HOUR EMERGENCY ASSISTANCE (SPILL LEAK OR FIRE) CALL CHEMTREC[®] (800) 424 9300 For other product information contact Gowan Company or see Material Safety Data Sheet

### NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product If terms are not acceptable return the unopened container for a full refund

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury inadequate performance or other unintended consequences may result due to soil or weather conditions off target movement presence of other materials method of use or application, and other factors all of which are beyond the control of Gowan Company. All such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use subject to the above stated risk limitations TO THE EXTENT CONSISENT WITH APPLICABLE LAW GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

TO THE EXTENT CONSISENT WITH APPLICABLE LAW GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT WARRANTY TORT NEGLIGENCE OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT AT GOWAN COMPANY'S SOLE DISCRETION

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