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<br>Do not induce vomiting unless told to do so by the poison control center or doctor<br>Do not give anything by mouth to an unconscious person             |
| If on skin or clothing      | <ul> <li>Take off contaminated clothing<br/>Rinse skin immediately with plenty of water for 15 20 minutes</li> <li>Call a poison control center or doctor for treatment advice</li> </ul>   |
| If inhaled                  | Move person to fresh air<br>If person is not breathing call 911 or an ambulance then give artificial respiration<br>preferably by mouth to mouth if possible<br>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<br>Remove contact lenses if present after the first 5 minutes then continue rinsing<br>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<br>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<br>GALLONS OF TOTAL<br>SPRAY SOLUTION  | COMMENTS  |
|----------|--|---|---|
|          |  | CITRUS  |   |
| CITRUS   | Algal Spot Melanose Scab   | 1 – 3 3   | Apply as pre bloom and post bloom sprays Use<br>higher rates when conditions favor disease<br>development   |
|          | Greasy Spot Pink Pitting   | 1 – 3 3   | Apply in summer on expanded new flush Repeat on<br>subsequent flushes where disease pressure is<br>severe Use higher rates when conditions favor<br>disease development   |
|          | Alternaria Brown Spot<br>(Suppression)   | 1 – 3 3   | On susceptible varieties apply when the first spring<br>flush appears and each flush thereafter Application<br>to the fruit should start after two thirds of the petals<br>have fallen and be repeated on a 21 day schedule<br><b>NOTE</b> When using lower rates use shorter spray<br>intervals (7 to 14 days)   |
|          | Phytophthora Brown Rot<br>Septoria Spot  | 1 – 3 3   | Begin application in fall before or just after the first<br>rain and continue as needed Apply to entire tree for<br>Septoria or just the lower 4 to 5 feet of the tree for<br>Brown Rot Apply also to bare ground 1 foot beyond<br>skirt Use higher rates when conditions favor disease<br>development  |
|          | Phytophthora Foot Rot  | 1 – 3 3   | Mix with 1 gallon of water and paint trunks of trees<br>from the soil surface to the lowest scaffold limbs<br>Apply in May prior to summer rains and/or in the fall<br>prior to wrapping trees for freeze protection<br>Treatment serves as protection for up to 1 year but<br>does not cure existing infections <b>NOTE</b> Areas<br>where microjet or low volume irrigation hit the tree<br>trunk may require retreatment due to wash off |
|          | Citrus Canker (Suppression)  | 1 – 3 3   | Spray flushes 7 to 14 days after shoots begin to<br>grow Young fruit may require an additional<br>application Number and timing of applications will be<br>dependent upon disease pressure Under heavy<br>pressure each flush of new growth should be<br>sprayed  |
|          | the post bloom period when y<br>Do not use GWN 4620 on citr<br>Field Nursery Grown To cont     | oung fruit is present may rest<br>us seedlings grown in greenh<br>rol brown rot citrus canker (si<br>cre at a rate of 200 gallons<br>ding on disease severity<br>= 7 days<br>quarts of formulated product p | ouses or shadehouses<br>uppression) greasy spot melanose pink pitting and for<br>of spray mixture per acre Apply GWN 4620 at 28 day<br>per acre per application   |
|          |  | FIELD CROPS   |   |
| ALFALFA  | Cercospora Leaf Spot<br>Leptosphaerulina Leaf Spot   | 1 – 3 3   | Apply 10 to 14 days before each harvest or earlier if disease threatens <b>NOTE</b> Spray injury may occur with sensitive varieties such as Lahontan  |
|          | Minimum retreatment interval<br>Do not apply more than 6 12 o<br>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<br>when disease symptoms first appeal and repeat at<br>10 to 14 day interval all needed. Use higher rates<br>and reduce spray intervals or dall when conditions<br>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<br>when plants are 0 inc ies high when discase<br>pressure is light ind highe rates where disease<br>pressure is more severe. Under conditions of severe<br>disease control with GWN 4620 will be improved by  |

|   | (   |  | (  |
|---|---|--|--|
|   |   |  | 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<br>(Xanthomonas campestris)                                       | 1 – 3 3                                | node development on the main stem with fully<br>developed leaves beginning with the unifoliotate<br>leaves (V1 – V3 growth stages) or when extended<br>periods of wet weather are favorable for disease<br>development Continue on a 7 to 10 day schedule<br>when conditions continue to favor disease<br>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<br>extended periods of wet weather are favorable for<br>disease development Continue on a 7 to 10 day<br>schedule when conditions continue to favor disease<br>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<br>manchurica)  | 1 – 3 3                                | Begin applications when conditions favor disease<br>development (high humidity and cool temperatures)<br>Continue on a 7 to 10 day schedule if weather<br>conditions remain cool and wet   |
|   | Frogeye Leaf Spot<br>(Cercospora sojina)  | 1 – 3 3                                | Begin applications when wet conditions exist<br>Continue on a 7 to 10 day schedule when conditions<br>are favorable for disease development  |
|   | Pod & Stem Blight (Diaporthe<br>phaseolorum and Phomopsis<br>longicola)                       | 1 – 3 3                                | Begin application when seed in a pod is 1/8 long<br>through beginning pod maturity (R5 – R7 growth<br>sages) or when extended periods of wet weather are<br>favorable for disease development Continue on a 7<br>to 10 day schedule if conditions continue to favor<br>disease development   |
|   | Powdery Mildew<br>(Microsphaera manshurica)   | 1 – 3 3                                | Begin applications when conditions favor disease<br>development (cool humid nights and mild daytime<br>temperatures) Continue on a 7 to 10 day schedule i<br>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<br>disease development and repeat at 10 to 14 day<br>intervals or as needed Use the higher rate when<br>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<br>Septoria Leaf Blotch   | 1 – 3 3                                | with second spray 10 days later Use the higher rate<br>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<br>AURORA<br>BOYSEN  | Anthracnose Cane Spot Leaf<br>Spot Pseudomonas Blight<br>Purple Blotch Yellow Rust            | 1 – 3 3                                | Make fall application after har/e_t / pply delayed<br>dormant spray after pruning/training in the spring<br>Add 1 quart of crop cil per acte   |
| CASCADE<br>CHEHALEM<br>LOGAN MARION<br>SANTIAM<br>THORNLESS<br>EVERGREEN) | Anthracnose Cane Spot Leaf<br>Spot Purple Blotch Yellow<br>Rust                               | 1 – 3 3                                | Apply when leaf buds begin c open and repeat whe<br>flower buds show white NOTE Crop injury may<br>occur if applied to foliage under certain<br>environmen al for ditions such as hot or prolonged<br>moist periods D scontin je appli ations if sign o<br>crop injuly appear  |
| · - /   | Minimum retreatment interval<br>Do not apply more than 23.1 o<br>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<br>Blight   | 1 – 3 3  | Dormant application Begin applications when bloom<br>buds begin to swell Make additional applications at<br>10 to 14 day intervals or as needed before blooms<br>open   |
|   | Minimum retreatment interva<br>Do not apply more than 24 3<br>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<br>additional applications at 7 to 10 day intervals may<br>be required   |
|   | Rose Bloom  | 1 – 3 3  | Apply three sprays on 10 to 14 day schedule as soon<br>as symptoms are observed   |
|   | Leaf Spots Lophodermium<br>Twig Blight Red Leaf Spot Tip<br>Blight (Monilinia)                    | 1 – 3 3  | Apply delayed dormant spray in the spring Repeat at<br>10 to 14 day intervals or as needed through pre<br>bloom   |
|   | Minimum retreatment interva<br>Do not apply more than 24 3<br>Do not apply more than 146          | quarts of formulated produc  |   |
| CURRANTS<br>GOOSEBERRIES                        | Anthracnose Leaf Spot   | 1 – 3 3  | Make initial application after fist leaves have<br>expanded Continue on a 10 to 14 day schedule<br>during wet conditions in the spring Make an<br>additional application after harvest  |
|   | Minimum retreatment interva<br>Do not apply more than 46 2<br>Do not apply more than 185          | quarts of formulated produc  |   |
| RASPBERRIES                                     | Anthracnose Cane Spot Leaf<br>Spot Pseudomonas Blight<br>Purple Blotch Yellow Rust                | 1 – 3 3  | Make fall application after harvest Apply delayed<br>dormant spray after training in the spring Add quart<br>of crop oil per acre   |
|   | Anthracnose Cane Spot Leaf<br>Spot Purple Blotch Yellow<br>Rust                                   | 1 – 3 3  | Apply when leaf buds begin to open and repeat when<br>flower buds show white <b>NOTE</b> Crop injury may<br>occur if applied to foliage under certain<br>environmental conditions such as hot or prolonged<br>moist environmental conditions Discontinue<br>applications if signs of crop injury appear |
|   | Minimum retreatment interva<br>Do not apply more than 23 1<br>Do not apply more than 116 0        | quarts of formulated produc  | t per acre per application  |
| STRAWBERRIES                                    | Angular Leaf Spot<br>(Xanthonomas) Leaf Blight<br>Leaf Scorch Leaf Spot                           | 1 – 3 3  | Begin application when plants are established and<br>continue on a weekly schedule throughout the<br>season Use the higher rates when conditions favor<br>disease NOTE Discontinue applications if signs of<br>crop injury appear   |
|   | Minimum retreatment interval<br>Do not apply more than (17 3<br>Do not apply more than 94 6       | ) quarts of formulated produ   | ict per acre per application  |
|   |   | TREE CROPS   |   |
| ALMONDS<br>APRICOTS<br>CHERRIES<br>PLUMS PRUNES | Bacterial Blast<br>(Pseudomonas) Bacterial<br>Canker Shot Hole                                    | 1 – 3 3  | Make first application before fall rains and a second<br>at late dormant Use higher rates when rainfall is<br>heavy and disease pressure is high. For cherries<br>where disease is severe an additional application at<br>leaf fall may be required   |
|   | Blossom Brown Rot Shot<br>Hole  | 1 – 3 3  | Early bloom (popcorn ) application Apply before full<br>bloom Use higher rates when rainfall is heavy and<br>disease pressure is high <b>NOTE</b> To avoid plant<br>injury do not use higher rates after full bloom   |
|   | application<br>For dormant or late dormant<br>season<br>For bloom/growing season a<br>application | I = 5 days for bloom / growin<br>application do not apply n<br>application do not apply mo<br>application do not apply m | ng season<br>nore than 92 4 quarts of for nulated product per acre per<br>ore than 208 quarts of formulated p oduc per acre per<br>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<br>in CA)   | 1 – 3 3  | Begin applications at the first cover spray (7 to 10<br>days after shuck split) Repeat as needed at 10 day<br>intervals depending on the use of other cherry leaf<br>spot fungicides in the disease control program Use<br>the high rate under severe disease pressure Use of<br>copper fungicides including GWN-4620 may result<br>in phytotoxicty including yellow leaf blotches<br>bronzing of lower leaf surfaces and premature leaf<br>drop Phytotoxity will be more likely under warm dry<br>conditions The addition of hydrated lime at a rate of<br>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<br>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<br>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<br>for early season disease suppression Apply before<br>full bloom Use the higher rates when rainfall is<br>heavy and disease pressure is high<br><b>NOTE</b> to avoid plant injury do not use after full<br>bloom   |
|               | Minimum retreatment interva   | al = 7 days for dormant late dor                               |   |
|               | For dormant or late dormant<br>per acre per application<br>For dormant or late dormant<br>season<br>For bloom/growing season<br>application | up to pink bud do not apply m<br>application do not apply more | not apply more than 92 4 quarts of formulated product<br>ore than 208 quarts of formulated product per acre per<br>than 17 3 quarts of formulated product per acre per<br>han 208 quarts of formulated product per acre per   |
| ALMONDS       | Bacterial Blast   | 1 – 3 3  | For bacterial blast control in sprinkler irrigated<br>orchards or where disease is severe apply at 2 week<br>intervals or just before irrigation <b>NOTE</b> Injury may<br>occur from post bloom sprays on almonds especially<br>on Neplus varieties  |
|               |   | I = 7 days for dormant late dorr                               |   |
|               | For dormant or late dorman<br>application<br>For dormant or late dormant<br>season<br>For bloom/growing season<br>application               | application do not apply more application do not apply more    | eason<br>e than 92 4 quarts of formulated product per acre per<br>than 208 quarts of formulated product per acre per<br>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<br>Fire Blight   | 1 – 3 3  | Make applications up to green tip Apply as a full<br>cover spray NOTE Crop injury may occur from  |
| APPLES        | season  |  | Make applications up to green tip Apply as a full   |
| APPLES        | season<br>Fire Blight   | 1 – 3 3  | Make applications up to green tip Apply as a full<br>cover spray NOTE Crop injury may occur from<br>application discontinue use at / inch green<br>Recommended for processing apples only as fruit<br>russeting and leaf spotting are likely to occur Make<br>one application during bloom<br>Recommended for processing apples only as fruit<br>russeting and leaf spotting are likely to occur NOTE<br>Injury is more likely o occur on stra ns of Golden<br>Delicious & Staymar use of coppe on weak or<br>stressed trees can increas potential for leaf<br>spotting/drop Do not apply prior to 3 <sup>rd</sup> cover and<br>make 3 applications in rotation with other registered<br>fungicides Do not make more than 2 consecutive |
| APPLES        | season<br>Fire Blight<br>Fire Blight<br>Black Pox Black Rot Brooks<br>Spot Flyspeck Sooty Blotch  | 1 – 3 3<br>1 – 3 3   | Make applications up to green tip Apply as a full<br>cover spray NOTE Crop injury may occur from<br>application discontinue use at / inch green<br>Recommended for processing apples only as fruit<br>russeting and leaf spotting are likely to occur Make<br>one application during bloom<br>Recommended for processing apples only as fruit<br>russeting and leaf spotting are likely to occur NOTE<br>Injury is more likely o occur on stra ns of Golden<br>Delicious & Staymar use of coppe on weak or<br>stressed trees can increas potential for leaf<br>spotting/drop Do not apply prior to 3 <sup>rd</sup> cover and<br>make 3 applications in rotation with other registered   |

| · · · · · · · · · · · · · · · · · · · | European Canker Fire Blight               | 1   | under severe disease conditions  |  |  |
|---------------------------------------|---|---|--|--|--|
|                                       | Shoot Blast/Blister Spot<br>(Pseudomonas) |   |  |  |  |
|                                       | Minimum retreatment interva               | al = 5 days for bloom growing   | season<br>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<br>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<br>applications Use higher rates when conditions favor<br>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<br>finished spray per acre Apply on a 14 day schedule<br>throughout the wet season Apply at 1 day intervals<br>during dry periods                                    |  |  |
|                                       | Black Pitting                             | 1 – 3 3   | Mix in 100 gallons of water directing to the fruit stem<br>and include the basal portion of the leaf crown Apply<br>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<br>and continue while infection periods persist Apply<br>lower rates at 14 to 21 day intervals in high rainfall<br>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<br>rains and then at 21 to 28 day intervals until picking<br>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<br>Us concentrate or dilute spray Begin treatments at  |  |  |
|                                       | Disease (Corticium)                       | 1 – 3 3   | the start of the wet season and continue at monthly<br>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<br>the leaves have dropped 11 e higher rates when<br>rainfall is heavy and disease pressure shigh  |  |  |
|                                       | Eastern Filbert Blight                    | 1.00  | Apply as a dilute spray in cdequet wa er for<br>thorough coverage Make an application after harvest<br>in October before winter rains begin Additional   |  |  |
|                                       |   | 1 – 3 3   | applications should be made at bud swell to bud<br>bread and continued on a tvio week interval or a<br>needed untillea ly Ma. Use higher rates when<br>rainfall is heavy and disease pressure is high                      |  |  |
|                                       |   | I = 14 days<br>quarts of formulated product p<br>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<br>Apply during raceme development and bloom   |
|                                 | capsici) Raceme Blight<br>(Botrytis cinerea)  | 1 – 3 3  | periods Apply in sufficient water for thorough<br>overage Use higher rates when conditions favor<br>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<br>is severe Apply the high rate for heavy disease<br>pressure of when conditions favor disease<br>development   |
|                                 |   | al = 30 days<br>3 quarts of formulated product  <br>quarts of formulated product p   |  |
| PEACHES                         | Bacterial Canker/Bacterial  |  | Make dormant application after leaf drop and/or prior  |
| NECTARINES<br>(WEST)            | Blast (Pseudomonas)<br>Bacterial Spot<br>(Xanthomonas) Leaf Curl  | 1 – 3 3  | to bud swell Can be used with superior type oils   |
|                                 | Shot Hole   |  |  |
|                                 | Blossom Brown Rot Shot<br>Hole  | 1 – 3 3  | Full cover spray at pink bud   |
|                                 | Bacterial Spot  | 1 – 3 3  | Post bloom application applied at first and second<br>cover sprays NOTE Do not spray 3 weeks prior to<br>harvest Use only recommended rates Spotting of<br>leaves and defoliation may occur from use in cover<br>sprays  |
|                                 | season<br>For bloom/growing season<br>application<br>For bloom/growing season   | application do not apply mor   | nore than 208 quarts of formulated product per acre per<br>re than 17 3 quarts of formulated product per acre per<br>e than 208 quarts of formulated product per acre per  |
| PEACHES<br>NECTARINES<br>(EAST) | season<br>Bacterial Canker/Bacterial<br>Blast (Pseudomonas)<br>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<br>Bacterial Spot   | 1-33   | After initial domant application apply at early bud<br>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<br>For bloom/growing season<br>application   | application do not apply mor   | e than 17 3 quarts of formulated product per acre per  |
|                                 | season<br>For bloom/growing season<br>application<br>For bloom/growing season a   | application do not apply mor   |  |
| PEARS                           | season<br>For bloom/growing season<br>application   | application do not apply mor   | e than 17 3 quarts of formulated product per acre per  |
| PEARS                           | season<br>For bloom/growing season<br>application<br>For bloom/growing season<br>season<br>Fire Blight<br>Blossom Blast<br>(Pseudomonas)  | application do not apply mor<br>application do not apply more<br>1 – 3 3<br>1 – 3 3  | <ul> <li>than 17 3 quarts of formulated product per acre per</li> <li>than 208 quarts of formulated product per acre per</li> <li>Apply at 5 day intervals throughout the bloom period</li> <li>NOTE Do not apply D Anjou pears Excessive</li> <li>dosages may cause fruit russet</li> <li>Apply before fall rains and again during dormancy</li> <li>before spring growth star Use the highur rate when</li> <li>disease pressure is high or whon cond trons favor</li> <li>disease development</li> </ul>  |
| PEARS                           | season<br>For bloom/growing season<br>application<br>For bloom/growing season a<br>season<br>Fire Blight<br>Blossom Blast<br>(Pseudomonas)<br>Minimum retreatment interva<br>Only 1 application per seaso<br>For fall or late dormant ap  | application do not apply mor<br>application do not apply more<br>1-33<br>1-33<br>al = 5 days for bloom growing so<br>in permitted for fall late dorma  | <ul> <li>than 17 3 quarts of formulated product per acre per</li> <li>than 208 quarts of formulated product per acre per</li> <li>Apply at 5 day intervals throughout the bloom period</li> <li>NOTE Do not apply D Anjou pears Excessive</li> <li>dosages may cause fruit russet</li> <li>Apply before fall rains and again during dormancy</li> <li>before spring growth star Use the highur rate when</li> <li>disease pressure is high or whon cond trons favor</li> <li>disease development</li> </ul>  |
| PEARS                           | season<br>For bloom/growing season<br>application<br>For bloom/growing season a<br>season<br>Fire Blight<br>Blossom Blast<br>(Pseudomonas)<br>Minimum retreatment interva<br>Only 1 application per seaso<br>For fall or late dormant ap<br>application<br>For between silver tip and gi<br>per application | application do not apply more<br>application do not apply more<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33 | <ul> <li>than 17 3 quarts of formulated product per acre per</li> <li>than 208 quarts of formulated product per acre per</li> <li>Apply at 5 day intervals throughout the bloom period<br/>NOTE Do not apply D Anjou pears Excessive<br/>dosages may cause fruit russet</li> <li>Apply before fall rains and again during dormancy<br/>before spring growth star. Use the higher rate when<br/>disease pressure is high or whon cond trons favor<br/>disease development</li> <li>season</li> <li>nt and between silver tip and green tip</li> </ul> |

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

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| CRUCIFERS<br>(BROCCOLI<br>BRUSSELS<br>SPROUTS<br>CABBAGE<br>CAULIFLOWER<br>COLLARD<br>GREENS | Black Leaf Spot (Alternaria)<br>Black Rot (Xanthomonas)<br>Downy Mildew   | 1 – 3 3                     | Apply at 7 to 10 day intervals Begin applications<br>after transplants are set in the field or shortly after<br>emergence of field seeded drops or when conditions<br>favor disease development. Use higher rates when<br>conditions favor disease <b>NOTE</b> Reddening of older<br>leaves may occur on broccoli and a flecking of<br>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<br>(CANTALOUPES<br>CUCUMBERS<br>HONEYDEW<br>MUSKMELON<br>PUMPKINS                  | Alternaria Leaf Spot Angular<br>Leaf Spot Anthracnose<br>Downy Mildew Gummy Stem<br>Blight Powdery Mildew<br>Watermelon Bacterial Fruit<br>Blotch (Suppression) | 1 – 3 3                     | Begin application when conditions are favorable for<br>disease development Repeat at 5 to 7 day intervals<br>Use shorter intervals when conditions are favorable<br>for disease development <b>NOTE</b> Cop injury may<br>occur from applications at shorter intervals<br>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<br>Phomopsis  | 1 – 3 3                     | Begin applications prior to development of disease<br>symptoms Repeat sprays at 7 to 10 day intervals or<br>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<br>Mildew Purple Blotch  | 1 – 3 3                     | Begin when plants are 4 to 6 inches high and repeat<br>at 7 to 10 day intervals or as needed depending upor<br>disease pressure Can cause phytotoxicity to leaves  |  |
|  | Minimum retreatment interval<br>Do not apply more than 11 6 o<br>Do not apply more than 69 3 o  | quarts of formulated produc |  |  |
| PEAS   | Powdery Mildew  | 1 – 3 3                     | Begin applications when disease symptoms first<br>appear and repeat at weekly intervals as needed Us<br>higher rats when conditions favor disease<br>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<br>Cercospora Leaf Spot  | 1 – 3 3                     | Begin applications when conditions first favor<br>disease development and repeat at 5 to 10 day<br>intervals as needed depending on disease severity<br>Use higher rates when conditions are favorable for<br>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<br>Cercospora Leaf Spot White<br>Rust   | 1 – 3 3                     | Begin applications when disease first appears or<br>when conditions favor disease development Repeat<br>at 7 to 10 day intervals as needed. Use higher rates<br>when conditions favor disease development <b>NOTE</b><br>Flecking may occur on spinach leaves  |  |
|  | Minimum retreatment interval<br>Do not apply more than 9 13 of<br>Do not apply more than 6 6  | quarts of formulated produc |  |  |
|  | Do not apply more than 45.6 c<br>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<br>intervals or as needed. Use the higher rate when<br>disease is severe  |  |
|  | Minimum retreatment interval<br>Do not apply more than 151 of<br>Do not apply more than 90 8 of   | quarts of formulated produc |  |  |

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

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|              | (  |                             | (   |  |
|--------------|--|-----------------------------|---|--|
|              | Do not apply more than 9 13<br>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<br>week intervals Apply in a tank mix with another<br>registered compatible fungicide if moderate to severe<br>disease pressure is present   |  |
|              | Minimum retreatment interval<br>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<br>Blight  | 1 – 3 3                     | Begin GWN-4620 + Rovral applications as soon as<br>plants have emerged in spring Applications should<br>be repeated every 7 days until plants become<br>dormant Apply fungicides at least 8 hours before<br>rain Use of a spreader sticker or sticker is advised<br><b>NOTE</b> Alternaria Leaf and stem Blight is most<br>severe in humid conditions such as those found in<br>the dense canopies of 2 to 4 year old Ginseng. It is<br>very important that the stems be thoroughly covered<br>with fungicide therefore use a spray apparatus that<br>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<br>repeat on a weekly schedule until just before harves<br>Apply in sufficient water volume for thorough<br>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<br>repeat on a weekly schedule until just before harvest<br>Apply in sufficient water volume for though coverage   |  |
|              | Minimum retreatment interval<br>Do not apply more than 14 2 o<br>Do not apply more than 56 8 o | uarts of formulated produ   | ct per acre per season  |  |
| OKRA         | Anthracnose Bacterial Leaf<br>Spot Leaf Spots Pod Spot<br>Powdery Mildew                       | 1 – 3 3                     | Begin treatment when disease first threatens and<br>repeat every 5 to 10 days or as needed depending<br>on disease severity. Use the higher rates and shorte<br>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<br>when Ball Moss is actively growing using 1 5 gallons<br>of spray per foot of tree height Make sure to wet Bal<br>Moss tufts thoroughly A second application may be<br>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<br>Repeat on 14 to 28 day schedule as a disease<br>severity and environmental conditions dictate Use<br>higher rates when conditions favor disease<br>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<br>intervals under light diseal or pre-sure and at 5 to 7<br>day intervals under heally disease pressure. The<br>addition of an approved spreader is ecommended<br>Use higher rates when conditions favor disease<br>development.  |  |
|              | Minimum retreatment interval   | = 7 days                    |   |  |
|              | Do not apply more than 30 4 c  |                             | ct per acre per application   |  |
|              |  |                             |   |  |

| PARSLEY       | Bacterial Blight (Pseudomonas<br>sp)  | 1 – 3 3                       | Begin applications when plants are fist established in<br>the field and repeat at 5 to 7 day intervals depending<br>upon disease severity and environmental conditions  |
|---------------|---|-------------------------------|---|
|               | Minimum retreatment interval<br>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<br>on a weekly schedule until just before harvest Apply<br>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<br>repeat on a weekly schedule until just before harvest<br>Apply in sufficient water volume for thorough<br>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<br>water or sufficient volume for thorough coverage<br>Make first application at bud crack and second<br>application 7 to 10 days later (at 10 / leaf<br>expansion) Use higher rates when conditions favor<br>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<br>GALLONS OF TOTAL<br>SPRAY SOLUTION |
|---|------------------------------|--|
| ANNUAL AND PERENNIAL BEDDING PLANTS<br>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<br>(therapeutic) | 1 –3 3   |
|   | Xanthomonas (preventive      | 1 3 3  |
|   | Xanthomonas (therapeutic)    | 1 –3 3   |

| IMPATIENS                             | 0 Ho  | 1 -3 3                  |
|---------------------------------------|---|-------------------------|
| INIPATIENS                            | Alternaria<br>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<br>Destantial Phytopht                 | 1-33                    |
| RANUNCULUS                            | Bacterial Blight<br>Botrytis                        | <u>1 –3 3</u><br>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<br>AFRICAN VIOLET                   | OTTED FLOWERING CROPS<br>Such as but not limited to | 1.22                    |
|                                       | Botrytis<br>Powdery Mildew                          | <u>1 –3 3</u><br>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><br>1 –3 3 |
| HYDRANGEA                             | Powdery Mildew<br>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<br>Erwinia (preventive)                        | <u>1 –3 3</u><br>1 –3 3 |
|                                       | Erwinia (preventive)<br>Erwinia (therapeutic)       |                         |
|                                       | Xanthomonas   | <u>1 –3 3</u><br>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)<br>Black Spot (therapeutic) | -3 3                    |
| ROSE BUSH                             |   | <u>-33</u><br>1 33      |
| ROSE BUSH                             | Black Spot (therapeutic)                            | 33                      |

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|  | Cylindrocladium<br>(therapeutic)  | 1 –3 3   |
|--|---|--|
|  | Powdery Mildew<br>(preventive)  | 1 –3 3   |
|  | Powdery Mildew<br>(therapeutic)   | 1 –3 3   |
| TULIP  | Botrytis  | 1 –3 3   |
|  | TROPICAL FOLIAGE CROPS  |  |
|  | Such as but not limited to  |  |
| DRACAENA   | Rust  | 1-33   |
| HIBISCUS   | Botrytis<br>Pseudomonas   | <u>1 –3 3</u><br>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><br>1 –3 3  |
| TROPICAL FOLIAGE<br>(GENERAL)                              | Botrytis<br>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<br>seconds prior to sticking<br>or unrooted cuttings shipped in sp<br>or dip cuttings for a few seconds p<br>ease pressure repeat in 7 to 10 day       | ray cuttings to drench 2 to 3<br>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<br>POINSETTIA                                    | Cylindrocladium<br>Botrytis   | <u>1 –3 3</u><br>1 –3 3  |
| romoerna   | Erwinia   | 1-33   |
|  | Scab  | 1-33   |
| TROPICAL FOLIAGE   | Cylindrocladium   | 1 3 3  |
|  | Erwinia   | 1 –3 3   |
|  | CUT FLOWER CROPS<br>Such as but not limited to  |  |
| GERBERA  | Botrytis  | 1-33   |
| GLADIOLA<br>LISIANTHUS                                     | Botrytis  | 1-33   |
| ORCHID   | Botrytis<br>Botrytis  | <u>1 –3 3</u><br>1 –3 3  |
| ROSE   | Botrytis  | 1-33   |
| ZINNIA   | Botrytis  | 1 –3 3   |
|  | NURSERY CROPS<br>Such as but not limited to   |  |
|  |   |  |
| AZALEA   | Anthracnose   | 1 -3 3   |
| AZALEA   | Anthracnose<br>Botrytis   | 1 –3 3   |
| AZALEA   | Anthracnose<br>Botrytis<br>Cylindrocladium  | <u>1 –3 3</u><br>1 <u>–</u> 3 3  |
|  | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora  | <u>1 –3 3</u><br><u>1 –3 3</u><br>1 –3 3   |
| BUXUS  | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella   | 1-33<br>1-33<br>1-33<br>1-33   |
|  | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora  | 1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33   |
| BUXUS  | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose  | 1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33<br>1-33   |
| BUXUS  | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose<br>Botrytis<br>Powdery Mildew<br>Anthracnose   | 1-33       1-33       1-33       1-33       1-33       1-33       1-33       1-33       1-33       1-33  |
| BUXUS<br>DOGWOOD<br>EUONYMUS                               | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose<br>Botrytis<br>Powdery Mildew<br>Anthracnose<br>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<br>DOGWOOD<br>EUONYMUS<br>HAWTHORN                   | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose<br>Botrytis<br>Powdery Mildew<br>Anthracnose<br>Botrytis<br>Cedar Apple Rust                           | 1-33          |
| BUXUS<br>DOGWOOD<br>EUONYMUS                               | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose<br>Botrytis<br>Powdery Mildew<br>Anthracnose<br>Botrytis<br>Cedar Apple Rust<br>Botrytis               | $ \begin{array}{r} 1-33\\ 1-33\\ 1-33\\ \hline 1-$ |
| BUXUS<br>DOGWOOD<br>EUONYMUS<br>HAWTHORN                   | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose<br>Botrytis<br>Powdery Mildew<br>Anthracnose<br>Botrytis<br>Cedar Apple Rust<br>Botrytis<br>Cercospora | $ \begin{array}{r} 1 -33 \\ 1 -3 \\$  |
| BUXUS<br>DOGWOOD<br>EUONYMUS<br>HAWTHORN                   | Anthracnose<br>Botrytis<br>Cylindrocladium<br>Phytophthora<br>Volutella<br>Anthracnose<br>Botrytis<br>Powdery Mildew<br>Anthracnose<br>Botrytis<br>Cedar Apple Rust<br>Botrytis               | $ \begin{array}{r} 1-33\\ 1-33\\ 1-33\\ \hline 1-$ |

| (   |   | (  |
|---|---|--|
| ``````````````````````````````````````  |   | · · · · · · · · · · · · · · · · · · ·  |
| INDIAN HAWTHORN   | Botrytis  | 1 –3 3   |
|   | Entomosporium   | 1 -3 3   |
| JAPANESE MAPLE  | Botrytis  | 1 -3 3   |
|   | Pseudomonas<br>Verticillium   | 1-33   |
| LILAC   | Botrytis  | <u>1 -3 3</u><br>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<br>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<br>TO TREES THAT WILL BEAR<br>FRUIT WITHIN ONE YEAR )   |   |  |
|   |   |  |
|   | Fire Blight   | 1_33   |
| APPLE<br>GRAPE<br>POST HARVEST DI   | P APPLICATIONS ON CUT FLOW  |  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA   | Botrytis<br>P APPLICATIONS ON CUT FLOV<br>owers/buds for a few seconds soor<br>mixture to pH 5 5 – 6 5<br>Botrytis  | 1 –3 3<br>VER CROPS<br>a after cutting Adjust dip<br>1 –3 3  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>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<br><b>VER CROPS</b><br>a after cutting Adjust dip<br><u>1 –3 3</u><br>1 –3 3  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>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<br><b>VER CROPS</b><br>a after cutting Adjust dip<br><u>1 –3 3</u><br><u>1 –3 3</u><br>1 –3 3   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>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<br><b>VER CROPS</b><br>a after cutting Adjust dip<br>1 –3 3<br>1 –3 3<br>1 –3 3<br>1 –3 3<br>1 –3 3   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>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<br><b>VER CROPS</b><br>a after cutting Adjust dip<br><u>1 –3 3</u><br><u>1 –3 3</u><br>1 –3 3   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>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<br><b>VER CROPS</b><br>a fiter cutting Adjust dip<br>1 -3 3<br>1 -3 3<br>1 -3 3<br>1 -3 3<br>1 -3 3<br>1 -3 3   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>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<br/><b>VER CROPS</b><br/>a fiter cutting Adjust dip<br/>1 -3 3<br/>1 -3 3<br/>1 -3 3<br/>1 -3 3<br/>1 -3 3<br/>1 -3 3</th>  | 1 -3 3<br><b>VER CROPS</b><br>a fiter cutting Adjust dip<br>1 -3 3<br>1 -3 3<br>1 -3 3<br>1 -3 3<br>1 -3 3<br>1 -3 3   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>Specific Directions Dip bulbs fi<br>CALLA LILY<br>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<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs fi<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>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 <math display="block">1 -3 3</math> b then allow to dry before <math display="block">1 -3 3</math> CAPE AND INTERIOR <math display="block">1 -3 3</math></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<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>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 <math display="block">     1 -3 3 </math> b then allow to dry before <math display="block">     1 -3 3 </math> GCAPE AND INTERIOR <math display="block">     1 -3 3 </math> <math display="block">     1 -3 3</math></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<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut fic<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs fi<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>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 <math display="block">     1 -3 3 </math> b then allow to dry before <math display="block">     1 -3 3 </math> CAPE AND INTERIOR <math display="block">     1 -3 3 </math> <math display="block">     1 -3 3 </math> <math display="block">     1 -3 3 </math> <math display="block">     1 -3 3</math></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<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>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  $   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>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  $   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>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 \\ $  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>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 \\  $  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA  | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Phytophthora         Phytophthora         Rhizoctonia         Botrytis         Erwinia         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 \\  $  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS  | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Phytophthora<   | $     \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 \\       1 -3 3 \\       0 then allow to dry before \\       \hline       1 -3 3 \\       1 -3 \\$   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS<br>JAPANESE MAPLE  | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Phytophth   | $\begin{array}{r} 1 -3 \ 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline 1 -3 \ $   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS  | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Verticillium         Phytophthora         Verticillium   | $\begin{array}{r} 1 -3 \ 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline 1 -3 \ 1 -3 \ 3 \\ \hline 1 -3 \ 1$   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS<br>JAPANESE MAPLE   | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Verticillium         Phytophthora         Verticillium         Phytophthora         Pythium   | $\begin{array}{r} 1 -3 \ 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline 1 -3 \ 1 -$  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs for<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS<br>JAPANESE MAPLE<br>PANSY   | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Verticillium         Phytophthora         Verticillium   | $\begin{array}{r} 1 -3 \ 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline 1 -3 \ 1 -3$  |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs fr<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS<br>JAPANESE MAPLE<br>PANSY<br>PERIWINKLE                              | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frwinia         Phytophthora         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Verticillium         Phytophthora         Pythum         Phytophthora  | $\begin{array}{r} 1 -3 \ 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline \textbf{SCAPE \ AND \ INTERIOR} \\ \hline \hline 1 -3 \ 3 \\ \hline 1 -3 \ 1 -3 \ 3 \\ \hline 1 -3 \ $   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs fr<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS<br>JAPANESE MAPLE<br>PANSY<br>PERIWINKLE<br>PITTOSPORUM               | 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         Cylindrocladium         Rhizoctonia         Botrytis         Erwinia         Rhizoctonia         Phytophthora         Verticillium         Phytophthora         Pythium         Phytophthora         Pythum         Phytophthora         Rhizoctonia   | $\begin{array}{r} 1 -3 \ 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 \ 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 \ 3 \\ \hline \textbf{SCAPE \ AND \ INTERIOR} \\ \hline \hline 1 -3 \ 3 \\ \hline 1 -3 \$   |
| APPLE<br>GRAPE<br>POST HARVEST DI<br>Specific Directions Dip cut flo<br>ALSTROMERIA<br>FREESIA<br>GLADIOLA<br>ROSE<br>SWEETPEA<br>E<br>Specific Directions Dip bulbs fr<br>CALLA LILY<br>SOIL DRENCH APPLICATIONS<br>AFRICAN VIOLET<br>ASTER<br>AZALEA<br>CYCLAMEN<br>FERNS<br>GERANIUM<br>HOSTA<br>IMPATIENS<br>JAPANESE MAPLE<br>PANSY<br>PERIWINKLE<br>PITTOSPORUM<br>POINSETTIA | Botrytis         P APPLICATIONS ON CUT FLOW         owers/buds for a few seconds soor         mixture to pH 5 5 – 6 5         Botrytis         Frevinia         Phytophthora         Phytophthora         Phytophthora         Botrytis         Erwinia         Rhizoctonia         Botrytis         Erwinia         Phytophthora         Phytophthora         Phytophthora         Phytophthora         Phytophthora         Rhizoctonia         Phytophthora         Phytophthora         Rhizoctonia         Rhizoctonia  | $\begin{array}{r} 1 -3 3 \\ \hline \textbf{VER CROPS} \\ a \ fter cutting \ Adjust \ dip \\ \hline \hline 1 -3 3 \\ \hline 0 \ then \ allow \ to \ dry \ before \\ \hline \hline 1 -3 3 \\ \hline 3 \\ \hline \textbf{SCAPE \ AND \ INTERIOR} \\ \hline \hline 1 -3 3 \\ \hline 1 -3 \\ \hline 1 -3$ |

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#### ORNAMENTAL TREES

| CROP        | PEST                      | QUARTS PER 100 GALLONS<br>OF TOTAL SPRAY SOLUTION | COMMENTS   |
|-------------|---------------------------|---|--|
| DOUGLAS FIR | Rhabdocline<br>Needlecast | 1 –3 3  | Begin applications at bud break and repeat at 3 to 4 week<br>intervals Apply in a tank mix with another registered compatible<br>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<br>Moss is actively growing using 1.5 gallons of spray per foot of tree<br>height Make sure to wet Ball Moss tufts thoroughly A second<br>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<br>sufficient volume for thorough coverage Make first application at<br>bud crack and second application 7 to 10 days later (at 10 / leaf<br>expansion) Use higher rates when conditions favor disease<br>development |

| CROP      | PEST  | QUARTS PER 100 GALLONS<br>OF TOTAL SPRAY SOLUTION                  | COMMENTS  |
|-----------|-------|--|---|
| TURFGRASS | Algae | 13 3   | Apply in 5 gallons of water to control algae This product may be<br>used alone or in combination with other registered fungicides as a<br>maintenance spray |
|           |       | city may occur depending upon varieta<br>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<sup>®</sup> (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.

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