

45002-7

11-02-2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Morris Gaskins  
Albaugh Inc.  
PO Box 2127  
Valdosta, GA 31604-2127

NOV 02 2011

Subject: Blue Shield WP  
Registration No.: 45002-7  
Date Submitted: October 11, 2011  
Decision No.: 456666

Dear Mr. Gaskins:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the action requested fall within the scope of PRN 2007-4.

The Agency acknowledges the changes made to the container disposal statement.

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Dominic Schuler at 703-347-0260 or via email at [schuler.dominic@epa.gov](mailto:schuler.dominic@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

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



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 45002-7	2. EPA Product Manager T. Kish	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Blue Shield WP	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Albaugh Inc. P.O. Box 2127 Valdosta, GA 31604-2127 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>NOV 02 2011</u> Product Name _____	

**Section - II**

Amendment - Explain below.  Final printed labels in response to Agency letter dated \_\_\_\_\_

Resubmission in response to Agency letter dated \_\_\_\_\_  "Me Too" Application.

Notification - Explain below.  Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Label notification to revise Container Disposal instructions under PR Notice 2007-4 as amended April, 2008. This notification is consistent with the provisions of PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA.

**Section - III**

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container  
50 lb

5. Location of Label Directions

6. Manner in Which Label is Affixed to Product  
 Lithograph Paper, glued Stenciled  Other \_\_\_\_\_

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Morris Gaskins	Title Registrations Manager	Telephone No. (Include Area Code) 229-244-3288
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**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature

3. Title  
Registrations Manager

4. Typed Name  
Morris Gaskins

5. Date  
10/11/2011

6. Date Application Received (Stamped)



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BLUE SHIELD WP  
AGRICULTURAL FUNGICIDE/BACTERICIDE

ACTIVE INGREDIENT:		
Copper Hydroxide*	.....	77.0%
INERT INGREDIENTS:	.....	23.0%
TOTAL:	.....	100.0%

(\*Metallic copper equivalent 50%)  
CAS No. 20427-59-2

**NOTIFICATION**

**NOV 02 2011**

KEEP OUT OF REACH OF CHILDREN

DANGER      PELIGRO

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

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

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

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

See back panel For Additional Precautionary Statements

EPA Reg. No. 42750-7

EPA Est. No. 45002-MX-02

AD 043002

NET CONTENTS: \_\_\_\_\_

Product of Mexico

Manufactured For:  
ALBAUGH, INC.  
ANKENY, IA

PRECAUTIONARY STATEMENTS

DANGER

Hazards To Humans And Domestic Animals

Corrosive. Causes irreversible eye damage. May cause skin sensitization reactions in certain individuals. Harmful if swallowed, absorbed through the skin or inhaled. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- 3. Shoes plus socks
- 4. Protective eyewear

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

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

USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do



NON-AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow others to enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in a cool, secure, dry area in original containers.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

~~CONTAINER DISPOSAL: Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or, if allowed, by State and local authorities, by burning. If burned, stay out of smoke.~~

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INSTRUCTIONS

Blue Shield WP may be applied by Aerial, or by Dilute or Concentrated Ground Sprayers, or Chemigation on crops and at rates given on this label unless specifically prohibited for that crop use. Sufficient spray volume and spray pressure is essential to thoroughly penetrate the plant canopy and give thorough spray coverage and at the times indicated. On crops sensitive to copper fungicides use the higher volumes of spray water per acre. Use the higher dosage of Blue Shield WP on mature trees, or when disease pressure is severe or weather conditions warrant.

When using adjuvants or other pesticides in combination with this product, always observe the caution statements on the product's label and required days before harvest. Sprays of Blue Shield WP may be applied up to 24 hours pre-harvest. Before mixing with other products in spray tank, be sure that products are compatible. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Blue Shield WP should not be applied in spray water having a pH of less than 6.5 as phytotoxicity may result. Use a buffering agent to increase the pH to 6.5-7.0 if your water source is below 6.5. Also avoid using water having a pH of greater than 9.0 as effectiveness may be reduced.

MIXING INSTRUCTIONS FOR SPRAY APPLICATION

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

Mix thoroughly and then add enough water to fill spray tank. Maintain sufficient agitation during mixing and during application of sprays to ensure a uniform spray mixture. When tank mixing with other products, follow the mixing sequence below: (1) micronutrients and fertilizers, (2) wettable powders, dry flowables, and water dispersible granules, (3) liquid flowables, (4) emulsifiable concentrates, and (5) adjuvants. Before adding the second pesticide, be sure that the prior product is well mixed and suspended.

MINIMUM RECOMMENDED SPRAY VOLUME  
IN GALLONS PER ACRE (GPA)

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

Use Blue Shield WP as noted below unless indicated otherwise in the specific crop directions. Blue Shield WP is adaptable to spraying from aircraft and ground spraying equipment. Depending on the equipment used and the specific crop, the volume applied per acre will differ. Refer to recommended volumes below:



	Aerial	Ground	
		Dilute	Concentrate
Vegetables and Field Crops	3	20	-
Small Fruits	5	150	50
Vines	5	150	50
Fruit and Nut Trees*	10	400	50
Citrus	10	800	100 (20 FL)**

\*On young fruit trees, use a minimum of 1 gallon spray per acre.

### CHEMIGATION INSTRUCTIONS

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

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

Crop injury or lack of effectiveness can result from 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 device for public water systems is in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

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

SAFETY DEVICES

- (1) The systems designated above must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- (3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- (5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- (6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into the reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

#### POSTING INSTRUCTIONS

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

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

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



Crown or Collar Rot - Apply 4 lbs. per acre in 100 gallons of water. Apply 4 gallons of suspension as a drench on the lower trunk area of each tree. Apply either in early spring or in late fall after harvest.

NOTE: Do not use if soil pH is below 5.5 since copper toxicity may result.

APRICOTS:

Coryneum Blight (Shot Hole) & Blossom Brown Rot - Apply at popcorn to full bloom using 8-12 lbs. per acre. Use higher rate when conditions favor disease. Do not apply after bloom as crop injury may result.

ATEMOYA (Not for use in CA):

Anthraco-nose - Apply 3 lbs. per acre. Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.

AVOCADOS:

Scab - Apply when bloom buds begin to swell at 8-12 lbs. per acre. Continue applications at monthly intervals for 5 or 6 applications. Use the higher rate when conditions favor disease.

BANANAS:

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

Black Pitting - Apply at 4 lbs. per 100 gallons directly to the fruit stem and include the basal portion of the leaf crown. Apply during the first and second weeks after fruit emergence.

BEANS:

Bacterial Blight (Halo, Brown Spot, and Common) - For protective sprays apply first application when plants have second trifoliolate leaves or are about five or six inches high. Apply on 7-14 day schedule depending on local conditions. Use 1 to 3 lbs. per acre depending on disease severity.

BLACKBERRIES (Santiams, Logans, Boysens, Marions, Auroras, Cascades, Chehalems, and Thornless Evergreens):

Leaf & Cane Spot - Apply delayed dormant spray after training in spring at 4 lbs. plus 1 quart crop oil per 100 gallons. Apply again in late spring at 2 lbs. plus 1 quart crop oil per 100 gallons. Make fall spray applications after harvest using 4 lbs. plus 1 quart crop oil per 100 gallons.

BLUEBERRIES: (Not for use in CA)

Bacterial canker - Apply 4 to 8 pounds per acre. Make first

application before fall rains and a second application four weeks later.

**BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER & COLLARDS:**

Downy Mildew (Peronospora) - Apply 0.5 to 1 lb. per acre at 7 day intervals. CABBAGE ONLY: Black Rot (Xanthomonas) & Black Leaf Spot (Alternaria) - Apply 2 lbs. per acre at 7-10 day intervals. (Precaution: A slight reddening of older leaves may occur on cabbage at the 2 lb. rate). For control of disease of these crops begin application after transplants are set in the field, or shortly after emergence of field seeded crops or when conditions favor disease development.

**CACAO:**

Black Pod - Begin applications at the start of the rainy season and continue while infection conditions persist. Sprays should be made as often as 14 to 21 days in high rainfall areas at varying rates from 2 to 4.5 lbs. per acre depending on disease severity. For drier areas where 2 to 4 applications are recommended during critical infection periods and at long intervals, use 6.5 to 8.5 lbs. per acre, according to disease incidence and planting density.

**CARAMBOLA (Not for use in CA):**

Anthracoise - Apply 6 lbs. per acre. Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.

**CARROTS:**

Carrot Blight (Cercospora) - When disease threatens, apply 2 lbs. per acre at 7 to 14 day intervals depending on disease severity.

**CELERY & CELERIAC (CELERIAC: Not for use in CA):**

Early, Late & Bacterial Blights - Apply as soon as plants are first established in the field at 1-2 lbs. per acre, then every 3-7 days depending on severity and weather.

**CHERRIES:**

Dead Bud (Pseudomonas syringae) and Coryneum Blight - Apply 8-12 lbs. per acre before heavy rains fall and again in late dormant. In orchards where the disease is severe, a spray should also be applied in August.

Brown Rot Blossom Blight - Apply 2 to 3 lbs. per 100 gallons water as a full cover spray, applied at popcorn and full bloom.

**CHIVES (Not for use in CA):**

Downy Mildew - Apply 2 lbs. per acre. Begin applications when plants are established in the field. Repeat applications every 7-10 days as dictated by disease conditions.

CITRUS:

Melanose, Pink pitting, and Scab - Apply 4-12 lbs. per acre, depending on disease severity, as a pre-bloom and post-bloom spray.

Greasy Spot - Apply 2-6 lbs. per acre using higher rates when conditions favor disease.

Brown Rot - Apply 4-8 lbs. per acre beginning in fall and continuing as needed. Apply to skirts of trees to a height of at least 4 feet. Apply also to bare ground one foot beyond skirt. Use higher rates when conditions favor disease.

NOTE: In California, in areas subject to copper injury, add 1/3 to 1 lb. of high quality lime per pound of this product.

Citrus Canker (suppression only) - Apply 12 lbs. per acre, spraying flushes 7-14 days after shoots begin to grow. Young fruit may require an additional application. Number and timing of applications will be dependent on disease pressure. Under heavy disease pressure, each flush of new growth should be sprayed.

Phytophthora - Mix 1 lb. of product with 1 gallon of water and paint trunks of trees from the soil surface to the lowest scaffold limbs. Apply in May prior to summer rains and/or in the fall prior to wrapping trees for freeze protection. Treatment serves as protection for up to one year, but does not cure existing infections.

Blue Shield WP may be mixed with dry foliar nutritionals (micronutrients) to create "Shot Bag" mixes to meet the various nutritional requirements of citrus and provide disease protection as described on this label. Blue Shield WP per acre rates in these mixes must not exceed the maximum recommended labeled rates for disease control.

COFFEE:

Iron Spot (*Cercospora coffeicola*) and Pink Disease (*Corticium salmonicolor*) - Apply at 2 lbs. per acre. Begin treatment at start of wet season and continue at monthly intervals for three applications.

Coffee berry disease (*Collectotrichum coffeanum*) - Apply 6 to 8 lbs. per acre. Make first spray after flowering and before onset of long rains and repeat at 21 to 28 day intervals until picking. Use higher rates and shorter intervals when rainfall is heavy and disease pressure is high.

Bacterial blight (*Pseudomonas syringae*) - Apply 6 to 8 lbs. per acre. Begin spray program before onset of the long rains and continue throughout the rainy season at 14 to 21 day intervals.

The critical time of spraying to control this disease is just before, during and after flowering(s), especially when coinciding with wet weather. Use higher rates and shorter intervals when rainfall is heavy and disease pressure is high.

Leaf Rust (Hemileia vastatrix) - Apply at 3.5 to 5.5 lbs. per acre for average density plantings. High density plantings may require 7 to 8 lbs. per acre. Make first application before the onset of rains and then continue at 21 day intervals while the rains continue and disease conditions continue. Use the higher rates when rainfall is heavy and disease pressure is high.

CRANBERRY:

Fruit Rot - Apply at 8 lbs. per acre beginning in late bloom (mid-July), followed by two additional applications made at 10 to 14 day intervals.

CUCURBITS:

Begin application when conditions are favorable for disease development. Repeat at 5 - 10 day intervals. Use higher rates when conditions favor disease. NOTE: Crop injury may occur from application at higher rates and shorter intervals.

CANTALOUPE, HONEYDEWS, MUSKMELONS:

Downy Mildew - 2 to 3 lbs. per acre.

CUCUMBERS:

Angular Leaf Spot, Downy Mildew - 1.5 to 3 lbs. per acre.

PUMPKINS, SQUASH:

Powdery mildew - 1.5 to 3 lbs per acre.

WATERMELONS:

Anthracoise - Use 2 to 3 lbs. per acre.

Downy mildew - Use 1.5 to 3 lbs. per acre.

CURRANTS & GOOSEBERRY:

Anthracoise & Leaf Spot - Make three applications at 10 lbs. per acre, starting after harvest, before bloom and after petal fall.

DILL (Not for use in CA):

Phomas Leaf Spot, Rhizoctonia Foliage Blight - Apply 2 to 3 lbs. per acre. Begin applications when plants are first established in the field and repeat at 7-10 day intervals depending upon disease severity and environmental conditions. Use higher rates when conditions favor disease.

DOUGLAS FIR: (Not for use in CA)

Rhabdocline needlecast - Apply 2 lbs. per acre. Begin applications at bud break and repeat at 3-4 week intervals. Apply



in a tank mix with another registered pesticide if moderate to severe disease pressure is present.

EGGPLANT:

Alternaria blight, Anthracnose, Phomopsis - Use 2 lbs. per acre before disease appears. Repeat at 7 to 10 day intervals.

FILBERT:

Bacterial Blight - Use 16 to 24 lbs. per 100 gallons as a post-harvest spray in late August or early September. In seasons of heavy rainfall, apply another spray when three-quarters of leaves have dropped.

For Eastern filbert blight - Apply as a dilute spray in sufficient water for thorough coverage. Make initial application after harvest in October before heavy winter rains begin. Repeat application in late February to early March and again 4 weeks later.

GINSENG:

Alternaria leaf & Stem blight - Apply 2.6 lbs. per acre in a tank mix with 2 lbs. Rovral 50W used in 100 gallons of water. Begin applications as soon as plants emerge in spring. Applications should be repeated every 7 days until plants become dormant in fall. If scheduled application is to be made before a rain shower, apply fungicides at least 8 hours before the rain, giving the fungicides time to dry on the plants. Use of a spreader-sticker or sticker is advised.

NOTE: Alternaria leaf and Stem blight are most severe in humid conditions such as those found in the dense canopies of 2-4 year old ginseng. It is very important that the stems be thoroughly covered with fungicide; therefore, use a spray apparatus which distributes the fungicide throughout the canopy.

GRAPES:

Black Rot, Powdery Mildew & Downy Mildew - Apply 2 lbs. plus 1-3 lbs. hydrated lime per acre as a dilute or concentrate spray. Use for the last one or two late summer applications following early season application of another fungicide. Follow State schedule for exact timing. (Precaution: Slight to severe foliage injury may occur on copper-sensitive varieties.)

GUAVA (Not for use in CA):

Anthracnose, Red Algae - Apply 3 lbs. per acre. Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.

HOPS:

Downy Mildew - Apply 2 lbs. as a fungicide crown treatment (after pruning, but before training) as needed. After training,



Anthraco nose - Apply 8-10 lbs. per acre monthly after fruit set until harvest.

OLIVES:

Peacock Spot, Olive Knot - Use 8-12 lbs. per acre before fall rains begin. A second application in early spring should be made if disease is severe.

ONIONS:

Purple Blotch & Downy Mildew - Apply 2 lbs. per acre when plants are 4 to 6 inches high and repeat at 7 to 10 day intervals. Addition of a spreader-sticker at recommended rates may improve wetting of onion foliage.

PAPAYA (Not for use in CA):

Anthraco nose - Mix 2 lbs. per 100 gallons water on a dilute spray basis. Addition of a sticker may be desirable. Begin treatment before rains when disease is expected. Repeat at 10 to 14 day intervals during periods of heavy rainfall.

PARSLEY (Not for use in CA):

Bacterial Blight (Pseudomonas sp.) - Apply 3 lbs. per acre. Begin applications when plants are first established in the field and repeat at 5-7 day intervals depending upon disease severity and environmental conditions.

PASSION FRUIT (Not for use in CA):

Anthraco nose - Apply 6 lbs. per acre. Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.

PEACHES & NECTARINES:

Leaf Curl & Coryneum Blight (Shot Hole) - Apply 8 to 20 lbs. per acre at leaf fall. Use the higher rates per acre when rainfall is heavy and disease pressure is high. Addition of an agricultural spray oil may be desired.

Brown rot blossom blight - Apply at 8 to 12 lbs. per acre as a full cover spray at pink bud. (Application at this time also affords some control of Leaf Curl and Coryneum Blight).

Bacterial spot - Apply 12 to 16 lbs. per acre as a dormant application. If Bacterial spot infection is potentially heavy, two post bloom sprays applying 1/4 lb. per 100 gallons at first and second cover sprays in full dilute spray may aid control. Do not spray later than three weeks prior to harvest. Do not use at rates above those recommended. (Precaution: Slight defoliation and spotting of leaves may occur from use in cover sprays).

PEANUTS:

Cercospora Leaf Spot - Begin spraying 25 to 40 days after planting

or when disease symptoms appear. Make ground or aerial application at 1.5 to 3 lbs. per acre. Continue applications at 10-14 day intervals. Use sufficient water to get adequate coverage.

PEARS:

Fire Blight - Apply 1 pound per acre at 5 day intervals throughout bloom period.

Pseudomonas blight - Apply 12-16 lbs. per acre before fall rains. Make a second application during dormancy before spring growth begins. The higher rate is required when increased disease pressure is present or when conditions favor development of the disease. (PRECAUTION: May cause fruit russet).

PEAS:

Powdery Mildew - Begin spray treatment when disease symptoms first appear. Use at 1.5 to 3 lbs. per acre according to disease severity. Repeat applications at weekly intervals.

PECANS:

Shuck and Kernel Rot (*Phytophthora cactorum*) and Zonate Leaf Spot (*Cristulariella pyramidalis*) - For suppression, apply 2 to 4 lbs. per acre in sufficient water for good coverage at 2 to 4 week intervals starting at kernel growth and continuing until shucks open. Use the higher rate and shorter intervals if frequent rainfall occurs.

Mosses, Alga, and Lichen - Mix 6 lbs. per 100 gallons spray plus spreader-sticker on a dilute spray basis and apply in dormant season before buds swell, thoroughly wetting limbs and mosses.

PEPPERS:

Bacterial Spot - When disease threatens, apply 2 to 3 lbs. per acre at 7 to 14 day intervals depending on disease severity.

PISTACHIOS (Not for use in CA):

Botrytis Blight, Botryosphaeria Panicle and Shoot Blight, Septoria Leaf Blight, Late Blight (*Alternaria*) - Apply 4 to 8 lbs. per acre. Make initial application at bud swell and repeat on a 14-28 day schedule. Use higher rates when conditions favor disease.

PLUMS & PRUNES:

Coryneum blight (Shot Hole) - Apply 8-16 lbs. per acre as a dormant spray. Use the higher rate when rainfall is heavy and/or disease pressure is high.

Brown rot blossom blight - Apply 8-12 lbs. per acre full cover application at pink, red or early white bud stage. Use the higher rate when disease pressure is heavy or conditions favor disease

development.

POTATOES:

Early & Late Blight - Apply at 7 to 10 day intervals starting when plants are 4 to 6 inches high and continue until harvest. Use 1 to 1.5 lbs. per acre in those locations where disease is light and up to 3-4 lbs. per acre where disease is more severe. If late blight is a problem, apply prior to digging or in vine kill spray.

QUINCE (Not for use in CA):

Fire Blight - Apply 1 lb. per acre. Apply at 5 day intervals through bloom period. Apply in adequate water for thorough coverage.

RASPBERRY: (Not for use in CA)

Leaf & Cane spot - Apply 4 lbs. per acre as a delayed dormant spray after training in the spring. Make fall application after harvest. Add 1 qt. of crop oil per acre.

SPINACH:

Anthracoese, Cercospora leafspot, Downy mildew, & White rust - Apply 2-4 lbs. per acre. Begin treatment when disease first appears and repeat every 7-10 days as needed to suppress disease.

STRAWBERRIES:

Downy mildew, Leaf spot & Leaf blight - Use 2 to 3 lbs. per 100 gallons water per acre. Begin spray when plants are established and continue on a weekly schedule throughout the season. Discontinue applications if signs of phytotoxicity appear. May be used in nursery and field plantings.

SUGAR APPLE (Annona) (Not for use in CA):

Anthracoese - Apply 12 lbs. per acre. Make initial application just before flowering and repeat on a weekly schedule until just before harvest. Apply in sufficient water for thorough coverage.

SUGAR BEETS & TABLE BEETS (TABLE BEETS: Not for use in CA):

Cercospora Leaf Spot - Start spray when disease threatens and continue for 4 to 5 applications. Spray 10-14 days depending on weather conditions at 2 to 5 lbs. per acre depending on disease severity. Addition of suitable agricultural spray oil is recommended.

SYCAMORE:

Anthracoese - Make two applications using 2 to 3 lbs. per 100 gallons as a full cover spray. Make first application at bud crack and second application 7-14 days later at 10% leaf expansion.

TOMATOES:

Early Blight, Anthracnose, Bacterial speck, Gray leaf spot.



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it is impossible to test every one for sensitivity to Blue Shield WP. Neither the manufacturer nor seller has determined whether or not Blue Shield WP can be safely used on ornamental or nursery plants not listed on this label. The user should determine if Blue Shield WP can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e., bedding plants, foliage, etc., and observe for 7-10 days for symptoms of phytotoxicity prior to commercial use.

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

Apply as a thorough coverage spray using 1 lb. per 100 gallons of water. Begin application at first sign of disease and repeat at 7-14 day intervals as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist.

Blue Shield WP may be used as a maintenance spray alone or in combination with other fungicides such as the dithiocarbamates.

ORNAMENTAL / DISEASES:

CROP	LATIN NAME	DISEASE
Althea (Rose of Sharon)+	<i>Hibiscus syriacus</i>	Bacterial Leaf Spot
Aralia	<i>Dizygotheca elegantissima</i>	Xanthomonas & Cercospora Leaf Spots, Alternaria
Arborvitae+	<i>Thuja sp.</i>	Alternaria Twig Blight, Cercospora Leaf Blight
Azalea*	<i>Rhododendron sp.</i>	Cercospora Leaf Spot, Botrytis Blight, Phytophthora Dieback & Powdery Mildew
Begonia	<i>Begonia semperflorens</i>	Bacterial leaf spot (Xanthomonas sp., Erwinia sp., Pseudomonas sp.)
Bougainvillea+	<i>Bougainvillea spectabilis</i>	Anthracnose, Bacterial Leaf Spot
Bulbs, (Tulip, Gladiolus)	Miscellaneous	Anthracnose, Botrytis Blight
Camellia+	<i>Camellia japonica, C. sasanqua</i>	Anthracnose, Bacterial Leaf Spot
Camphor Tree+	<i>Cinnamomum camphora</i>	Pseudomonas Leaf Spot
Canna+	<i>Canna sp.</i>	Pseudomonas Leaf Spot
Carnation*	<i>Dianthus sp.</i>	Alternaria Blight, Pseudomonas Leaf Spot, & Botrytis Blight

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CROP	LATIN NAME	DISEASE
Chinese Tallow Tree+	<i>Sapium sebiferum</i>	Bacterial Leaf Spot (Xanthomonas sp., Pseudomonas sp.)
Chrysanthemum*	<i>Chrysanthemum morifolium</i>	Septoria Leaf Spot, & Botrytis Blight
Cotoneaster	<i>Cotoneaster sp.</i>	Botrytis Blight
Dahlia+	<i>Dahlia pinnata</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
Date Palm+	<i>Phoenix canariensis</i>	Pestalotia Leaf Spot
Dianthus+	<i>Dianthus sp.</i>	Bacterial Spot, Bacterial Soft Rot
Dogwood+	<i>Cornus florida</i>	Anthracnose
Dusty Miller+	<i>Senecio cineraria</i>	Bacterial Leaf Spot (Pseudomonas cichorii)
Easter Lily**	<i>Lilium longiflorum</i>	Botrytis Blight
Echinacea+	<i>Echinacea sp.</i>	Bacterial Leaf Spot (Pseudomonas cichorii)
Elm "Drake"+	<i>Ulmus parvifolia</i>	Xanthomonas Leaf Spot
Euonymus	<i>Euonymus sp.</i>	Botrytis Blight & Anthracnose
European Fan Palm+	<i>Champaerops numilis</i>	Pestalotia Leaf Spot
Gardenia+	<i>Gardenia jasminoides</i>	Alternaria Leaf Spot, Botrytis Bud Rot, Cercospora Leaf Spot
Geranium+	<i>Pelargonium sp.</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Cercospora Leaf Spot
Gladiolus	<i>Gladiolus sp.</i>	Alternaria Leaf Spot, Botrytis Gray Mold, Bacterial Leaf Blight
Golden Rain Tree+	<i>Koelreuteriapaniculata</i>	Bacterial Leaf Spot
Hibiscus+	<i>Hibiscus rosa-sinensis</i>	Bacterial Leaf Spot
Holly Fern+	<i>Cyrtomium falcatum</i>	Pseudomonas Leaf Spot
Impatiens+	<i>Impatiens sallerana</i>	Bacterial Leaf Spot
India hawthorn***	<i>Raphiolepis indica</i>	Anthracnose, Entomosporium Leaf Spot
Ivy (English, Algerian)*	<i>Hendera helix, H. canariensis</i>	Xanthomonas Leaf Spot
Ixora+	<i>Ixora coccinea</i>	Xanthomonas Leaf Spot
Juniper (Eastern Red Cedar)+	<i>Juniperus virginiana</i>	Anthracnose
Lantana+	<i>Lanatana camera</i>	Bacterial Leaf Spot
Lilac+	<i>Syringa sp.</i>	Cercospora Leaf Spot



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CROP	LATIN NAME	DISEASE
Loblolly Bay+	<i>Gordonia lasianthus</i>	Anthracnose
Loquat+	<i>Eriobotrya japonca</i>	Entomosporium maculata, Colletotrichum sp.
Magnolia (Southern)+	<i>Magnolia grandiflora</i>	Algal Leaf Spot, Anthracnose, Bacterial Leaf Spot
Magnolia (Sweet Bay)	<i>Magnolia virginiana</i>	Anthracnose
Magnolia+	<i>Magnolia soulangiana</i>	Bacterial Leaf Spot
Mandevillas+	<i>Mandevilla sp.</i>	Anthracnose
Marigold+	<i>Tagetes sp.</i>	Alternaria Leaf Spot, Botrytis Leaf and Flower Rot, Cercospora Leaf Spot
Mulberry, Weeping+	<i>Morus alba</i>	Bacterial Leaf Spot
Oak, Laurel+	<i>Quercus laurifolia</i>	Algal Leaf Spot ( <i>Cephaleuros virescens</i> )
Oleander+	<i>Nerium oleander</i>	Bacterial Leaf Spot, Fungal Leaf Spot
Pachysandra	<i>Pachysandra procumbens</i>	Volutella Leaf Blight
Pansy+	<i>Viola sp.</i>	Downy Mildew
Pear (Flowering)+	<i>Pyrus calleryana</i>	Fireblight, Leaf Spot
Pentas (Egyptian Star)+	<i>Pentas spp.</i>	Bacterial Leaf Spot ( <i>Xanthomonas sp.</i> )
Peony+	<i>Paeonia spp.</i>	Botrytis Blight
Periwinkle	<i>Catharanchus roseus, Vinca sp.</i>	Phomopsis Stem Blight
Philodendron	<i>Philodendron selloum</i>	Bacterial Leaf Spot
Phlox+	<i>Phlox sp.</i>	Alternaria Leaf Spot
Photinia (Red Top, Red Leaf)+	<i>Photinia fraserii., P. glabra</i>	Anthracnose, Entomosporium
Pistachio+	<i>Pistacia chinensis</i>	Anthracnose
Plantain Lily+	<i>Hosta sp.</i>	Bacterial Leaf Spot
Powder Puff Plant+	<i>Callindra sp.</i>	Bacterial Leaf Spot
Pyracantha	<i>Pyracantha sp.</i>	Fireblight & Scab
Queen Palm+	<i>Arecastrum romanzoffianum</i>	Exosporium Leaf Spot, Phytophthora Bud Rot
Rhododendron+	<i>Rhododendron sp.</i>	Alternaria Flower Spot
Rose*	<i>Rosa sp.</i>	Powdery Mildew, Black Spot

