



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 12, 2016

Ms. Kt Woodall  
Agent for Prime Source, LLC  
c/o Wagner Regulatory Associates, Inc.  
PO Box 640  
7217 Lancaster Pike, Suite A  
Hockessin, DE 19707

Subject: Notification per PRN 98-10: Corrects postharvest blueberry PHI to be 42 days; updates company address

Product Name: Chlorothalonil 720 Select

EPA Registration Number: 89442-9

Application Date: August 22, 2016

Decision Number: 520864

Dear Ms. Woodall:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please contact Tony Kish by phone at 703 308-9443, or via email at [kish.tony@epa.gov](mailto:kish.tony@epa.gov); or Craig Reeves by phone at 703 347-0486, or via email at [reeves.craig@epa.gov](mailto:reeves.craig@epa.gov)

Sincerely,

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

Tony Kish, Product Manager 22  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

## Chlorothalonil 720 Select

|  |                    |
|--|--------------------|
| <b>ACTIVE INGREDIENT:</b>                            | <b>% by Weight</b> |
| Chlorothalonil (tetrachloroisophthalonitrile): ..... | 54.0%              |
| <b>OTHER INGREDIENTS:</b> .....                      | <b>46.0%</b>       |
| <b>TOTAL:</b> .....                                  | <b>100.0%</b>      |

Contains 6.0 pounds Chlorothalonil per gallon (720 grams per liter)

### KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

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   |   |
|---|---|
| <b>IF INHALED:</b>  | <ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, give artificial respiration immediately, preferably by mouth-to-mouth.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>IF ON SKIN OR CLOTHING:</b>  | <ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>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>   |
| <b>IF IN EYES:</b>  | <ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF SWALLOWED:</b>  | <ul style="list-style-type: none"> <li>Call a Poison control center or doctor immediately for treatment advice.</li> <li>Have affected person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul> |
| Have the product label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product call your poison control center at <b>1-800-222-1222</b> .              |   |
| <b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage. Persons having a temporary allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids. |   |

EPA Reg. No.: 89442-9

EPA Est. No.: \_\_\_\_\_

Net Contents: \_\_\_\_\_ gals.

#### NOTIFICATION

89442-9

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

09/12/2016

**Manufactured For:**  
 Prime Source, LLC  
 P.O. Box 250  
 10025 Hwy. 264 Alternate  
 Middlesex, NC 275574609 E. Boonville-New Harmony Rd.  
 Evansville, IN 47725-9739

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**  
**WARNING/AVISO**

May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Do not breathe spray mist.

**Personal Protective Equipment (PPE)**

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

**Mixers, Loaders, Applicators and All Other Handlers Must Wear:**

- Long-sleeved shirt and long pants
- Protective eyewear
- Chemical resistant gloves made of waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride, or viton; if you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes plus socks
- A NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

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

**ENGINEERING CONTROLS STATEMENT**

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

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic invertebrates and wildlife. 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 disposing of equipment wash water or rinsate.

Chlorothalonil can contaminate surface water through spray drift. DO NOT apply when weather conditions favor drift from treated areas. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

Chlorothalonil degradates are known to leach through soil into ground water under certain conditions as a result of label use. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**DIRECTIONS FOR USE**

**General Precautions and Restrictions**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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

DO NOT use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, recreational park athletic fields, athletic fields located on or next to schools (i.e., elementary, middle, and high schools), campgrounds, churches, and theme parks.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the (REI) of 12 hours.**

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

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted-entry interval expires after 12 hours, for the next 6½ days entry is permitted only when the following safety measures are provided:

At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site intended for workers entering the treated area.

Workers must be informed, in a manner that they can understand:

- That residues in the treated area may be highly irritating to their eyes;
- That they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes;
- That if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water; and
- How to operate the eyeflush container.

#### **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 into treated areas until deposits have dried.**

Do not apply this product within 150 feet (for aerial and air-blast application); or 25 feet (for ground applications) from marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body..

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1) The distance of the outer most nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.
- 2) Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

#### **AERIAL DRIFT REDUCTION ADVISORY INFORMATION**

##### **Information on Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environment conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

### **Controlling Droplet Size**

**Volume** - Use high flow rate nozzles to apply the highest spray volume. Nozzles with higher rated flows produce larger droplets.

**Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

**Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.

**Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

**Nozzle Type** - Use a nozzle that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

### **Boom Length**

For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.

### **Application Height**

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making application at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### **Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

### **Wind**

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

### **Temperature and Humidity**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

### **Temperature Inversions**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### **Integrated Pest Management**

**Chlorothalonil 720 Select** is an excellent disease control agent when used according to label directions for control of a broad spectrum of plant diseases. This product is labeled for use in programs that are compatible with the principles of Integrated Pest Management (IPM), including the use of disease resistant crop varieties, cultural practices, pest scouting and disease forecasting systems which reduce unnecessary applications of pesticides.

### **Fungicide Resistance Management**

**Chlorothalonil 720 Select** is effective for strategic use in programs that attempt to minimize disease resistance to fungicides. Some other fungicides which are at risk from disease resistance exhibit a single-site mode of fungicidal action.

This product, with a multi-site mode of action, may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your federal or state Cooperative Extension Service representatives for guidance on the proper use of this product in programs which seek to minimize the occurrence of disease resistance to other fungicides.

### **Mixing, Loading, and Applying**

**Chlorothalonil 720 Select** is intended to be diluted into water, then applied to crops by typical agricultural spraying techniques. **ALWAYS APPLY THIS PRODUCT IN SUFFICIENT WATER TO OBTAIN THOROUGH, UNIFORM COVERAGE OF FOLIAGE AND CROP SURFACES INTENDED TO BE PROTECTED FROM DISEASE.** Spray volume to be used will vary with crop and amount of plant growth. Spray volume should normally range from 20 to 150 gallons per acre (200 to 1,400 liters per hectare) for dilute sprays and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop.

Slowly invert container several times to assure uniform mixture. Measure the required amount of **Chlorothalonil 720 Select** and pour into the spray tank during filling. Keep agitator running when filling spray tank and during spray operations.

Do not use on greenhouse-grown crops except as directed in the Ornamental Plants section of this label.

### **Tank Mixing**

When tank mixing this product with other pesticides, observe the more restrictive label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

**Chlorothalonil 720 Select** can be tank mixed with ActinoGrow (*Streptomyces lydicus* WYEC 108) for the control of diseases in soybeans as specified on both this and the ActinoGrow label (see the Application Rate Table for details). Observe all applicable directions, precautions, and limitations on the **Chlorothalonil 720 Select** and ActinoGrow label (EPA Reg. No. 73314-1) when applying these products.

Do not combine **Chlorothalonil 720 Select** in a sprayer tank with pesticides, surfactants or fertilizers, unless your prior use has shown the combination physically compatible, effective and non-injurious under your conditions of use. Do not combine this product with Dipel 4F, Foil, Triton AG-98, Triton B-1956 or Latron B-1956, as phytotoxicity may result from the combination when applied to the crops on this label. DO NOT tank mix this product with oil, or with any adjuvants which contain oil as their principal ingredient. When an adjuvant is to be used with this product, Prime Source, LLC recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant. Do not use with Copper Count N in concentrated spray suspensions.

### **Applications Through Sprinkler Irrigation Systems (Chemigation)**

Application through sprinkler irrigation systems is recommended only for those specific crops for which the notation "chemigation OK" is listed on this label.

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set and portable (wheel move, side roll, end tow, or hand move) irrigation system(s). DO NOT apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

DO NOT apply this product through irrigation systems connected to a public water system. "Public Water System" means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year.

Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injections when the irrigation water pump motor stops. A person knowledgeable of the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quick-closing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

Always inject **Chlorothalonil 720 Select** into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

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 irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the pressure decreases to the point where pesticide distribution is adversely affected.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

**Chlorothalonil 720 Select** may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

#### A. Center Pivot, Motorized Lateral Move and Traveling Gun Irrigation Equipment

For injection of pesticides, these continuously moving systems must use a metering pump, such as a positive displacement injection pump of either diaphragm or piston type, constructed of materials that are compatible with pesticides, fitted with a system interlock, and capable of injection at pressures approximately 2 to 3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix specified amount of **Chlorothalonil 720 Select** for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until this product has been cleared from last sprinkler head.

#### B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

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 **Chlorothalonil 720 Select** for acreage to be covered with water so that the total mixture of this product plus water in the injection tank is equal to the quantity of water used during calibration and operate entire system at normal pressures specified by the manufacturer of injection equipment used for amount of time established during calibration. No agitation should be required. 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 this product has been cleared from last sprinkler head.

#### Application Rates

Dosage rates on this label indicate pounds of **Chlorothalonil 720 Select** per acre, unless otherwise stated. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

For each crop use situation listed below, the listed maximum individual and seasonal application rates must not be exceeded and the listed minimum retreatment intervals must not be decreased.

#### Field and Row Crops

| Crop             | Diseases   | Rate Per Acre (Pints) | Application Instructions   |
|------------------|--|-----------------------|--|
| <b>Asparagus</b> | Rust ( <i>Puccinia asparagus</i> )<br>Purple spot ( <i>Puccinia asparagi</i> )<br>Cercospora blight ( <i>C. asparagi</i> ) | 2.0 - 4.0             | Apply after harvesting spears, when conditions favor disease development on ferns, generally when leaf wetness occurs. Repeat applications at 2- to 4-week intervals until ferns are not productive. Use the higher rate within the specified rate range and shortest interval when conditions favor disease.<br><br>PHI: 190 Days (120 days in California)<br><br>Maximum lbs. a.i./A per growing season: 9.0 |

|   |   |                       |   |
|---|---|-----------------------|---|
| <b>Beans (Snap)</b>   | Rust ( <i>Uromyces appendiculatus</i> )<br><br>Grey mold ( <i>Botrytis cinerea</i> )  | 1.38 - 3.0<br><br>3.0 | Begin applications during early bloom stage or when disease first threatens and repeat at 7-day intervals or as necessary to maintain control.<br><br>PHI: 7 days<br><br>Maximum lbs. a.i./A per growing season: 9.0  |
| <b>Dried Shelled Pea and Bean (not approved on dry beans in California)</b><br><br><b>Beans:</b> adzuki, broad, dry, grain lupin, jackbean, lablab, lupin, navy, kidney, lima, moth, mung, pink, pinto, rice, runner, tepary, urd, yardlong<br><br><b>Peas:</b> blackeyed, catjang, chickpea (garbanzo), cowpea, Southern | Rust ( <i>Uromyces appendiculatus</i> )<br>Anthracnose ( <i>Colletotrichum lindemuthianum</i> )<br>Downy mildew ( <i>Phytophthora</i> )<br>Cercospora leaf spot ( <i>C. cruenta</i> )<br>Ascochyta blight ( <i>A. phaseolorum</i> ) | 1.38 - 2.0            | Begin applications during early bloom stage and repeat at 7- to 10-day intervals. For use only on beans to be harvested dry with pods removed.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 6.0<br><br>Chemigation permitted on dry beans.  |
| <b>Brassica (Head and Stem):</b><br>Broccoli<br>Brussels sprouts<br>Cabbage<br>Chinese cabbage (tight headed varieties and Napa)<br>Chinese Mustard<br>Cauliflower<br>Chinese Broccoli<br>Cavalo (Broccolo, Kohlrabi)   | Alternaria leaf spot ( <i>Alternaria</i> spp.)<br>Downy Mildew ( <i>Peronospora parasitica</i> )<br><br>Ring spot ( <i>Mycosphaerella brassicicola</i> ) (California only)  | 1.5<br><br>2.0        | Start applications when transplants are set in field, or shortly after emergence of field-seeded crop, or when conditions favor disease development. Repeat at 7- to 10-day intervals to maintain control.<br><br>Apply by air, ground, or chemigation.<br><br>Start applications when conditions favor disease development. Repeat at 7- to 10-day intervals to maintain control.<br><br>Apply by air, ground, or chemigation.<br><br>PHI: 7 days<br><br>Maximum lbs. a.i./A per growing season: 8.8 |
| <b>Carrot</b>   | Early blight ( <i>Cercospora carotae</i> )<br>Late blight ( <i>Alternaria dauci</i> )   | 1.5 - 2.0             | Start applications when disease threatens and repeat at 7- to 10-day intervals to maintain control.<br><br>PHI: 0 days<br><br>Maximum lbs. a.i./A per growing season: 15.0<br><br>Chemigation permitted on carrots.   |



|  |   |                                 |   |
|--|---|---------------------------------|---|
| <b>Celery</b>  | Early blight ( <i>Cercospora apii</i> )<br>Late blight ( <i>Septoria apicola</i> )<br>Basal Stalk rot ( <i>Rhizoctonia solani</i> )<br><br>Pink rot (suppression) ( <i>Sclerotinia sclerotiorum</i> )   | 1 - 1.5<br>2.0 - 3.0<br><br>3.0 | Start applications shortly after crop emergence or when transplants are set in the field. For the indicated rates re-apply at:<br>1 - 1.5 pts. rate: 3- to 5-day intervals<br>2.0 - 3.0 pts. rate: 7-day intervals<br><br>PHI: 7 days<br><br>Maximum lbs. a.i./A per growing season: 18.0<br><br>Chemigation permitted on celery.   |
| <b>Corn (Sweet)<br/>Corn Grown<br/>For Seed</b>  | Helminthosporium leaf blights ( <i>Helminthosporium</i> spp.)<br>Rust ( <i>Puccinia</i> spp.)   | 0.75 - 2.0                      | Begin applications when conditions favor disease development and repeat at 7-day intervals. Do not allow livestock to graze in treated fields. Do not ensile treated corn or use as livestock forage. Do not apply to sweet corn to be processed. Use 1.5 - 2.0 pints when disease pressure is severe.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 9.0   |
| <b>Cucurbits:</b><br>Cantaloupe<br>Chayote (fruit)<br>Chinese Waxgourd (Chinese preserving melon)<br>Cucumber<br><i>Momordica</i> spp. (includes Balsam apple, bitter melon)<br>Muskmelon<br>Squash<br>Pumpkin<br>Watermelon<br>Zucchini<br><br>Including cultivars and/or hybrids of these. | Anthracnose ( <i>Colletotrichum</i> spp.)<br>Downy mildew ( <i>Pseudoperonospora cubensis</i> )<br>Target spot ( <i>Corynespora cassicola</i> )<br><br>Cercospora leaf spot ( <i>Cercospora citrullina</i> )<br>Gummy stem blight/vine decline ( <i>Didymella bryoniae</i> )<br>Alternaria leaf blight ( <i>Alternaria cucumerina</i> )<br>Alternaria leaf spot ( <i>Alternaria alternata</i> )<br>Scab ( <i>Cladosporium cucumerinum</i> )<br>Powdery mildew ( <i>Podosphaera xanthii</i> syn. <i>Sphaerotheca fuliginea</i> ) | 1.5 - 2.0<br><br>2.0 - 3.0      | Begin applications when plants are in first true leaf stage or when conditions are favorable for disease development. Repeat applications at 7-day intervals.<br><b>Note:</b> Spraying mature watermelons may result in sunburn of the upper surface of the fruit. DO NOT apply <b>Chlorothalonil 720 Select</b> to watermelon when any of the following conditions are present:<br>1) Intense heat and sunlight;<br>2) Drought conditions;<br>3) Poor vine canopy;<br>4) Other crop and environmental conditions which may be conducive to increased natural sunburn.<br><br>DO NOT combine <b>Chlorothalonil 720 Select</b> with anything except water for application to watermelons unless your prior use has shown the combination to be non-injurious to watermelons under your conditions of use.<br><br>Apply by air, ground, or chemigation.<br><br>PHI: 0 days<br><br>Maximum lbs. a.i./A per growing season: 15.75 |
| <b>Fruiting Vegetables (except tomato)</b><br>Eggplant<br>Groundcherry<br>Okra<br>Pepino<br>Pepper (including bell pepper, chili pepper, cooking pepper,   | Anthracnose ( <i>Colletotrichum</i> spp.)<br>Botrytis Leaf Mold ( <i>Botrytis cinera</i> )<br>Cercospora leaf spot ( <i>Cercospora</i> spp.)<br>Powdery mildew ( <i>Leveillula taurica</i> )  | 1.5                             | Begin applications as a foliage, flower and fruit spray when disease is anticipated. Repeat applications at 7- to 10-day intervals.<br><br>Apply by air, ground, or chemigation.<br><br>PHI: 3 days<br><br>Maximum lbs. a.i./A per growing season: 9.0  |

|   |  |   |  |
|---|--|---|--|
| pimento,<br>sweet<br>pepper)<br>Tomatillo |  |   |  |
| <b>Ginseng</b>                            | Alternaria blight ( <i>Alternaria panax</i> )<br>Grey mold ( <i>Botrytis cinerea</i> )   | 2.0   | Start applications when disease threatens and repeat at 7- to 10-day intervals to maintain control. Use in sufficient water to obtain adequate coverage.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 12.0   |
| <b>Grasses<br/>Grown for<br/>Seed</b>     | Stem rust ( <i>Puccinia</i> spp.)<br>Leaf rust ( <i>Puccinia</i> spp.)<br>Stripe rust ( <i>Puccinia</i> spp.)<br>Septoria leaf spot ( <i>Septoria</i> spp.)<br>Glume blotch ( <i>Septoria</i> spp.)<br>Bipolaris ( <i>Bipolaris</i> spp.)<br>Drechslera leaf spots ( <i>Drechslera</i> spp.)<br><br>Eyespot ( <i>Selenophoma</i> spp.) | 1.0 - 1.5<br><br><br><br><br><br><br>1.0 - 2.0  | Begin applications during stem elongation when conditions favor disease development. Re-apply at flag (top) leaf emergence and repeat applications at 14-day intervals.<br><br>DO NOT allow livestock to graze in treated areas or feed hay produced before harvest. Feeding of treated plant parts after harvest of seed is allowed.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 4.5 |
| <b>Horseradish</b>                        | Ramularia stem and leaf spot ( <i>Ramularia armoraciae</i> )   | 3.0   | Start applications when disease threatens and repeat at 7- to 10-day intervals to maintain control. Use in sufficient water to obtain adequate coverage.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 18.0   |
| <b>Lupine,<br/>Lentil</b>                 | Anthrachnose ( <i>Colletotrichum gloeosporioides</i> )<br>Ascochyta blight ( <i>Ascochyta pisi</i> )   | 1 - 1.5   | Start applications when disease threatens and repeat at 7- to 10-day intervals to maintain control. Use in sufficient water to obtain adequate coverage.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 6.0  |
| <b>Mint</b>                               | Rust ( <i>Puccinia menthae</i> )<br>Septoria leaf spot ( <i>Septoria menthae</i> )   | 1.38  | Begin applications when emerging plants are 4-8 inches high. Repeat applications at 7- to 10-day intervals or as necessary to maintain control. Based on available residue data, use of <b>Chlorothalonil 720 Select</b> is restricted to Indiana, Michigan, and Wisconsin.<br><br>PHI: 80 days<br><br>Maximum lbs. a.i./A per growing season: 3.0   |
| <b>Onion (Dry<br/>bulb)<br/>Garlic</b>    | Botrytis leaf blight or blast ( <i>Botrytis</i> spp.)<br>Purple blotch ( <i>Alternaria porri</i> )<br>Downy mildew (suppression) ( <i>Peronospora destructor</i> )   | 1.0 - 3.0<br><br><br><br><br><br><br>1.38 - 3.0 | Use <b>Chlorothalonil 720 Select</b> with disease monitoring systems that adjust fungicide rates and frequency of applications according to disease hazard. Apply as follows:<br>Low Disease Hazard & Prior to Infection: 1 pint every 10 days.<br>Low Disease Hazard & Some Disease Present: 1.38 pints every 7-10 days.<br>High Disease Hazard: 3 pints every 7 days.                                      |

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|  | Botrytis neck rot ( <i>Botrytis alli.</i> )<br>(Suppression)  |                              | For suppression during storage, make a minimum of three weekly applications prior to lifting.<br><br>PHI: 7 days<br><br>Maximum lbs. a.i./A per growing season: 15.0   |
| <b>Onion (Green bunching)<br/>Leek<br/>Shallot<br/>Onion &amp; Garlic<br/>Grown for Seed</b> | Botrytis leaf blight or blast ( <i>Botrytis</i> spp.)<br>Purple blotch ( <i>Alternaria porri</i> )<br>Downy mildew (suppression) ( <i>Peronospora destructor</i> )  | 1.5 - 3.0                    | Begin applications prior to favorable infection periods, and repeat at 7- to 10-day intervals for as long as conditions favor disease. Use the higher rate within the specified rate range and a 7-day schedule of applications when heavy dew or rain persists. If additional disease control is needed before harvest, use another registered fungicide.<br><br>PHI: 7 days (garlic); 14 days (green onion, leek, shallot)<br><br>Maximum lbs. a.i./A per growing season: 6.7  |
| <b>Parsnip</b>   | Alternaria leaf spot ( <i>Alternaria</i> spp.)<br>Downy mildew ( <i>Plasmopara crustosa</i> )<br>Anthracnose ( <i>Colletotrichum</i> spp.)<br>Gray mold ( <i>Botrytis cinerea</i> )<br>Bottom rot ( <i>Rhizoctonia solani</i> )                       | 1.5 - 2.0                    | Make the first application at the first sign of disease or when conditions are favorable for infection. Continue applications on a 7- to 10-day schedule.<br><br>PHI: 10 days<br><br>Maximum lbs. a.i./A per growing season: 6.0   |
| <b>Peanut</b>  | Early leaf spot ( <i>Cercospora arachidicola</i> )<br>Late leaf spot ( <i>Cercosporidium personatum</i> )<br>Pepper spot ( <i>Leptosphaerulina crassiasca</i> )<br><br>Rust ( <i>Puccinia arachidis</i> )<br>Web blotch ( <i>Phoma arachidicola</i> ) | 1.0 - 1.5<br><br><br><br>1.5 | Apply in sufficient water for coverage when leaf wetness first occurs or 30 to 40 days after planting; repeat at 14-day intervals.<br><br>DO NOT allow livestock to graze in treated areas.<br><br>DO NOT feed hay or threshings from treated fields to livestock.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 9.0<br><br>Chemigation permitted on peanut.  |
| <b>Potato</b>  | Late blight ( <i>Phytophthora infestans</i> )<br>Early blight ( <i>Alternaria solani</i> )<br>Botrytis vine rot ( <i>Botrytis cinerea</i> )<br>Black dot ( <i>Colletotrichum coccodes</i> )   | 0.75<br>Then<br>1.0 - 1.5    | Begin applications at the lower rate within the specified rate range when vines are first exposed and leaf wetness occurs. Repeat applications at 5- to 10-day intervals. Begin applying the higher label rates within the specified rate range at 5- to 10-day intervals when any of the following events occur:<br>1) Vines close within the rows;<br>2) Late blight forecasting measures 18 disease severity values (DSV);<br>3) The crop reaches 300 P-days.<br><br>Increase water spray volume as canopy density increases. Use the highest rate within the specified rate range and the shortest interval when plants are rapidly growing and disease conditions are severe.<br><br>PHI: 7 days<br><br>Maximum lbs. a.i./A per growing season: 11.25 |

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|   |  |  | Chemigation permitted on potato.   |
| <b>Rhubarb</b>  | Ramularia leaf spot ( <i>Ramularia rhei</i> )<br>Ascochyta blight ( <i>Ascochyta rhei</i> )  | 3.0  | Start applications when disease threatens and repeat at 7- to 10-day intervals to maintain control. Use in sufficient water to obtain adequate coverage.<br><br>PHI: 30 days<br><br>Maximum lbs. a.i./A per growing season: 13.5   |
| <b>Soybean</b>  | Anthrachnose ( <i>Colletotrichum truncatum</i> )<br>Diaporthe pod & stem blight ( <i>Diaporthe phaseolorum</i> )<br>Frogeye leaf spot ( <i>Cercospora sojina</i> )<br>Purple seed stain ( <i>Cercospora kikuchii</i> )<br>Cercospora leaf blight ( <i>Cercospora kikuchii</i> )<br>Septoria brown spot ( <i>Septoria glycines</i> )<br><br>Rust ( <i>Phakopsora pachyrhizi</i> )<br>Stem canker ( <i>Diaporthe phaseolorum</i> var. <i>caulivora</i> ) | 2<br>Application Program<br>1.5 - 2.25<br><br>3<br>Application Program<br>1.0 - 2.0<br><br>1.0 | Use the three application program in areas having a history of moderate to severe disease intensity.<br><br>DO NOT feed soybean hay or threshings from treated fields to livestock.<br><br>Determinate southern varieties: Early pod set (R3), Seed formation (R5)<br>Indeterminate northern varieties: Pods 1-1½", then 14 days later<br><br>Determinate southern varieties: Early flowering (R1), Early pod set (R3), Seed formation (R5)<br>Indeterminate northern varieties: One week after first flowering then at 14-day intervals.<br><br>Apply in 10-20 gallons of water per acre, as a band treatment directing spray to provide coverage of entire plant. Make the application at time of emergence of the second trifoliate leaves (V2). If conditions favor stem canker disease, make a second and third application at 14-day intervals.<br><br>PHI: 42 days<br><br>Maximum lbs. a.i./A per growing season: 4.5<br><br>Chemigation permitted on soybeans. |
| <b>Strawberries (non-bearing nurseries) (California only)</b> | Ramularia leaf spot ( <i>Ramularia tulasnei</i> )  | 1.5  | Begin application after a rain or sprinkler irrigation application and when disease threatens. Use a spray interval of 10-14 days. Use the highest rate within the specified rate range and shortest interval specified when disease conditions are severe. Continue applications until runners are dug.<br><br>DO NOT use <b>Chlorothalonil 720 Select</b> on strawberry plants in commercial fruit production.<br><br>PHI: N/A<br><br>Maximum lbs. a.i./A per growing season: 15.0<br><br>Chemigation permitted on strawberries.   |
| <b>Tomato</b>   | <b>Foliage (apply every 7-10 days):</b><br>Early blight ( <i>Alternaria solani</i> )<br>Late blight ( <i>Phytophthora infestans</i> )  | 1.38 - 2   | Begin applications when dew or rain occurs and disease threatens. Use the highest rate within  |

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|            | <p>Gray leaf spot (<i>Stemphylium botryosum</i>)<br/>         Gray leaf mold (<i>Fulvia fulva</i>;<br/> <i>Cladosporium</i>)<br/>         Septoria leaf spot (<i>Septoria lycopersici</i>)<br/>         Target spot (<i>Corynespora cassiicola</i>)</p> <p><b>Fruit (apply every 7-14 days, beginning at fruit set):</b><br/>         Anthracnose (<i>Colletotrichum</i> spp.)<br/>         Alternaria fruit rot (black mold) (<i>Alternaria alternata</i>)<br/>         Botrytis gray mold (<i>Botrytis cinerea</i>)<br/>         Late blight fruit rot (<i>Phytophthora infestans</i>)<br/>         Rhizoctonia fruit rot (<i>Rhizoctonia solani</i>)</p> | 2 - 3      | <p>the specified rate range and shortest interval specified when disease conditions are severe.</p> <p><b>Chlorothalonil 720 Select</b> may be combined in the spray tank with EPA-registered pesticide products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes. Check the copper manufacturer's label for specific instructions, precautions, and limitations prior to mixing with <b>Chlorothalonil 720 Select</b>.</p> <p>PHI: 0 days</p> <p>Maximum lbs. a.i./A per growing season: 15.1</p> <p>Chemigation permitted with solid set or portable wheel move systems only.</p> |
| <b>Yam</b> | <p>Anthracnose (<i>Colletotrichum gloeosporioides</i>)</p>  | 1.0 - 1.25 | <p>Start applications when disease threatens and repeat at 10- to 14-day intervals to maintain control. Use in sufficient water to obtain adequate coverage.</p> <p>PHI: 7 days</p> <p>Maximum lbs. a.i./A per growing season: 11.25</p>  |

### Tree, Bushberry and Orchard Crops

Apply **Chlorothalonil 720 Select** in sufficient water and with proper calibration to obtain uniform coverage of tree canopy. Application with ground equipment is preferable to aerial application because ground applications generally give better coverage of the tree canopy. If application with ground equipment is not feasible, **Chlorothalonil 720 Select** may be applied with aircraft using at least 20 gallons of spray per acre. When concentrate sprays are used or when treating non-bearing or immature trees, use the lower rate of **Chlorothalonil 720 Select** within the specified rate range for the crop being treated.

DO NOT allow livestock to graze in treated areas.

DO NOT apply **Chlorothalonil 720 Select** within one week before or after application of oil or an oil-based pesticide.

| Crop             | Diseases   | Rate Pints Per Acre | Spray Volume (Gallons Per Acre)       | Application Instructions   |
|------------------|--|---------------------|---------------------------------------|--|
| <b>Almonds</b>   | <p>Shothole (<i>Wilsonomyces carpophilus</i>)<br/>           Scab (<i>Venturia carpophila</i>)<br/>           Anthracnose (<i>Colletotrichum acutatum</i>)</p> <p>Brown rot blossom<br/>           Twig blight (<i>Monilinia</i> spp.)</p> | 4.0                 | 20 (concentrate) to 300 (full dilute) | <p>For best control of shothole apply at leaf fall in late autumn. Apply also at budbreak to protect newly emerging leaves and at shuck (jacket) split to prevent nut infections and to control scab and anthracnose.</p> <p>Apply at popcorn (pink bud) and at full bloom. If weather conditions favor disease development, make an additional application at petal fall.</p> <p>PHI: 150 days</p> <p>Maximum lbs. a.i./A per growing season: 18.75</p> |
| <b>Blueberry</b> | <p><b>Suppression:</b><br/>           Mummy berry (<i>Monilinia vaccinii-corymbosi</i>)<br/>           Anthracnose (<i>Colletotrichum gloeosporioides</i>)</p> <p>Rust (<i>Pucciniastrum vaccinii</i>)</p>                                 | 3.0 - 4.0           | 20 (concentrate) to 100 (full dilute) | <p>Begin applications at budbreak (green tip). Repeat applications until early bloom at 10-day intervals. DO NOT apply after early bloom, otherwise phytotoxicity may occur to the developing fruit.</p> <p>PHI: 42 days</p> <p>Maximum lbs. a.i./A per growing season: 9.0</p> <p>For post-harvest foliar applications, apply in sufficient water (20 - 100 gallons) to obtain</p>  |

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|                                     | Septoria leaf spot ( <i>Septoria albopunctata</i> )  |           |                                       | adequate coverage in order to maintain healthy leaves for the following season. Repeat at 10- to 14-day intervals. A minimum re-treatment interval is 10 days.<br><br>PHI: 42 <del>0</del> days<br><br>Maximum lbs. a.i./A per growing season: 9.0  |
| <b>Cranberry</b>                    | Upright dieback ( <i>Phomopsis vaccinii</i> syn. <i>Diaporthe vaccinii</i> )<br>Fruit rot ( <i>Monilinia oxycocci</i> )<br>Fruit rot disease complex<br>leaf & twig blight ( <i>Lophodermium</i> spp.) | 4.0 - 7.0 | 20 (concentrate) to 300 (full dilute) | Apply at shoot emergence to early bloom and repeat at 10- to 14-day intervals. Under severe disease pressure use the higher rate within the specified rate range on a 10-day schedule. DO NOT apply to bogs when flooded or allow release of irrigation water from bogs for at least 3 days following application.<br><br>PHI: 50 days<br><br>Maximum lbs. a.i./A per growing season: 15.0<br><br>Chemigation permitted with solid set systems only on cranberry. |
| <b>Filberts<br/>Hazelnut</b>        | Eastern filbert blight ( <i>Anisogramma anomala</i> )  | 4.0       | 20 (concentrate) to 300 (full dilute) | Begin applications at leaf bud break and repeat at 2- to 4-week intervals. Based on available residue data, use of <b>Chlorothalonil 720 Select</b> on filberts is restricted to Oregon.<br><br>DO NOT apply with oils, other pesticides, surfactants or fertilizers.<br><br>DO NOT apply within one week of an oil-based pesticide application.<br><br>PHI: 120 days<br><br>Maximum lbs. a.i./A per growing season: 9.0  |
| <b>Mango</b>                        | Anthrachnose ( <i>Colletotrichum</i> spp.)   | 2.0 - 3.5 | 20 (concentrate) to 300 (full dilute) | Begin applications at early bloom and repeat at 7- to 14-day intervals until early fruit development. Use the higher rate within the specified rate range and apply weekly when conditions favor disease.<br><br>PHI: 21 days<br><br>Maximum lbs. a.i./A per growing season: 24.0   |
| <b>Papaya</b>                       | Alternaria fruit spot ( <i>Alternaria alternate</i> )<br>Anthrachnose ( <i>Colletotrichum</i> spp.)<br>Stem end rot ( <i>Alternaria alternate</i> , <i>Colletotrichum</i> spp.)                        | 2.0 - 3.0 | 20 (concentrate) to 150 (full dilute) | Apply with ground equipment only. Begin treatment when conditions favor development of disease and continue treatments at 14-day intervals until weather conditions no longer favor disease development.<br><br>PHI: 0 days<br><br>Maximum lbs. a.i./A per growing season: 6.75   |
| <b>Passion<br/>Fruit</b>            | Alternaria fruit and leaf spot (brown spot) ( <i>Alternaria</i> spp.)<br>Anthrachnose ( <i>Colletotrichum</i> spp.)<br>Cercospora fruit spot ( <i>Cercospora</i> spp.)                                 | 2.0       | 20 (concentrate) to 100 (full dilute) | Apply with ground equipment in sufficient water to obtain adequate coverage of fruit and leaves. Begin applications before fruit spots appear (April to July) and re-apply at 14-day intervals until weather conditions no longer favor disease development.<br><br>PHI: 7 days<br><br>Maximum lbs. a.i./A per growing season: 7.5  |
| <b>Persimmon<br/>(Florida &amp;</b> | Cercospora leaf spot ( <i>Cercospora fuliginosa</i> )  | 1.25      |                                       | Start applications when disease first threatens and repeat at 14-day intervals as necessary to maintain control. Use in sufficient water to obtain  |

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| <b>Hawaii only)</b>   |   |                              |   | adequate coverage. Aerial application requires the use of a minimum of 10 gallons per acre.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 4.7   |
| <b>Pistachio</b>  | Shoot & Panicle blight ( <i>Botryosphaeria dothidea</i> ; conidial stage; <i>Fusicoccum</i> spp.)<br>Blossom & Shoot blight ( <i>Botrytis cinerea</i> )<br>Leaf blight & Late blight ( <i>Alternaria</i> spp. & <i>Stemphylium</i> spp.)<br><b>Suppression:</b><br>Septoria leaf spot ( <i>Septoria pistacina</i> )           | 6.0                          | 20 (concentrate) to 200 (full dilute)                   | Apply when trees begin to blossom then re-apply at full bloom for optimal protection against shoot and panicle blights. If conditions are favorable for late blight or leaf spot infections, repeat applications at 4-week intervals. Use the higher rate within the specified rate range when abnormally wet or cloudy weather conditions prevail.<br><br><b>Note:</b> Use of <b>Chlorothalonil 720 Select</b> in the manner described may result in specking or reddening of the fruit hull (epicarp). This effect appears to be superficial and has not resulted in any change in nut quality.<br><br>PHI: 14 days<br><br>Maximum lbs. a.i./A per growing season: 22.5  |
| <b>Stone Fruit:</b><br>Apricot<br>Cherry<br>Nectarine<br>Peach<br>Plum<br>Prune | Leaf curl ( <i>Taphrina deformans</i> )<br><br>Shothole ( <i>Wilsonomyces carpophilus</i> )<br>Brown rot blossom blight ( <i>Monilinia</i> spp.)<br>Lace (russet) scab on prune<br>Cherry leaf spot ( <i>Blumeriella jaapii</i> )<br>Scab ( <i>Cladosporium</i> )<br>Black knot (cherry, plum) ( <i>Apiosporina morbosa</i> ) | 3.125 - 4.125                | 20 (concentrate) to 300 (full dilute)                   | For best control apply at leaf fall in late autumn, using sufficient water and proper sprayer calibration to obtain uniform coverage. When conditions favor high disease levels use the high rate within the specified rate range and apply once or twice more in mid to late winter before budswell. If the leaf fall application is not practical, application of <b>Chlorothalonil 720 Select</b> for control of leaf curl may be made at any time prior to budswell the following spring.<br><br>Make one application at budbreak or popcorn (pink, red or early white bud). If weather conditions favor disease, make a second application 10 days later (full bloom to petal fall). Apply at shuck split to prevent infections on young fruit. If additional disease control is needed after shuck split and before harvest, use another registered fungicide.<br><br>For control of cherry leaf spot after harvest, make one application to foliage within 7 days after fruit is removed. In orchards with a history of high leaf spot incidence, make a second application 10-14 days later.<br><br>PHI: DO NOT apply after shuck split.<br><br>Maximum lbs. a.i./A per growing season: 15.4 |
| Conifers (pines and spruces)  | Swiss Needlecast ( <i>Phaeocryptopus gaeumannii</i> )<br><br>Scleroderris canker (pines) ( <i>Gremmeniella abietina</i> )<br>Swiss Needlecast ( <i>Phaeocryptopus gaeumannii</i> )  | 2.75 - 5.5<br><br>1.5 - 2.75 | 5 - 10 (concentrate ground or aircraft) to 100 (dilute) | Single application technique: In Christmas tree plantations make one application in the spring when new shoot growth is ½ - 2".<br><br>Make the first application in spring when new shoot growth is ½ - 2". Make additional application at 3- to 4-week intervals until conditions no longer favor disease development. For use in nursery beds, apply the highest rate within the specified rate range on a 3-week schedule.   |

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| Sirococcus tip blight<br>( <i>Sirococcus conigenus</i> )                                       | 2.0 - 3.5  |  |   |
| Rhizosphaera Needlecast<br>(spruces) ( <i>Rhizosphaera</i><br>spp.)                            | 5.5        |  |   |
| Scirrhia brown spot (pines)<br>( <i>Mycosphaerella</i><br><i>dearnessii</i> )                  |            |  |   |
| Cyclaneusma and<br>Lophodermium<br>Needlecast (pines)  | 2.75 - 5.5 |  | Apply in early spring prior to budbreak. Repeat applications at approximately 6- to 8-week intervals, until spore release ceases in late fall. Apply monthly during periods of frequent rainfall, and where Lophodermium infections occur during dormancy (Pacific Northwest). During drought periods, applications may be suspended, then resumed upon next occurrences of needle wetness. |
| Rhabdocline Needlecast<br>(Douglas fir)  | 1.5 - 2.75 |  | Apply at budbreak and repeat at 3- to 4-week intervals until needles are fully elongated and conditions no longer favor disease development. In plantations of mixed provenance, or when irregular budbreak occurs, apply weekly until all trees have broken bud, then every 3-4 weeks as specified above. In nursery beds, use the high rate on a 3-week schedule.                         |
| Botrytis seedling blight<br>( <i>Botrytis</i> spp.)  | 2.75       |  | Begin applications in nursery beds when seedlings are 4 inches tall and when cool, moist conditions favor disease development. Make additional applications at 7- to 14-day intervals as long as favorable disease conditions exist.  |
| Phoma twig blight ( <i>Phoma</i><br>spp.)  |            |  |   |
| Autoecious needle rust<br>(Weir's cushion)<br>(spruces) ( <i>Chrysomyxa</i><br><i>weirii</i> ) | 5.5        |  | Begin applications when 10% of buds have broken and repeat twice thereafter at 7 - 10 day intervals.  |
|  |            |  | Apply to conifers in: conifer nursery beds, Christmas tree and bough plantations, tree seed orchards, and landscape situations.   |
|  |            |  | <b>DO NOT use on forests.</b>   |
|  |            |  | Maximum lbs. a.i./A per growing season: 16.5  |

### Turfgrasses

Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, recreational park athletic fields, athletic fields located on or next to schools (i.e., elementary, middle, and high schools), campgrounds, churches, and theme parks. Sod farm turf treated with chlorothalonil prior to harvest must be mechanically cut rolled and harvested. Do not use for sod farms at application rates greater than 13 pounds of active ingredient per acre per year. Do not apply more than the following totals of chlorothalonil active ingredient from all registered product sources to the indicated types of turfgrass:

| Type of Turfgrass    | Total Chlorothalonil Active<br>Ingredient Per acre per Year |
|----------------------|---|
| Golf Course Greens   | 73 lbs.   |
| Golf Course Tees     | 52 lbs.   |
| Golf Course Fairways | 26 lbs.   |



|                            |         |
|----------------------------|---------|
| Sod Farms                  | 13 lbs. |
| Other Turf (not Sod farms) | 26 lbs. |

Apply **Chlorothalonil 720 Select** in 90 to 450 gallons of water per acre on golf course greens and tees, and 30 to 100 gallons of water per acre on fairways, lawns and other turfgrass. Apply with ground equipment only.

Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions use the highest rate and shortest interval corresponding with the application schedule selected from the table below. DO NOT mow or irrigate after treatment until spray deposit on turfgrass is thoroughly dry. This product should always be used in conjunction with good turf management practices.

| Diseases* Controlled  | Interval of Application | Golf Course Greens & Tees<br>(Rate/1,000 Sq. Ft.)               | Golf Course Fairways, Lawns & Other Turfgrass**<br>Rate per Acre |
|---|-------------------------|---|--|
| 1. Dollar spot<br>2. Brown patch<br>3. Leaf spot, Melting Out, Brown blight<br>4. Gray leaf spot        | 7 - 14 days             | 2 to 3.6 fl. oz.<br>(4.1 to 7.3 fl. oz. a.i./A)                 | 5½ to 9¾ fl. oz.<br>(4.1 to 7.3 fl. oz. a.i./A)                  |
| 5. Red thread<br>6. Anthracnose<br>7. Copper spot<br>8. Stem rust (bluegrass)<br>9. Dichondra leaf spot | 7 days<br>or<br>14 days | 3.6 fl. oz.<br>Or<br>5½ fl. oz.<br>(7.3 or 11.3 fl. oz. a.i./A) | 9¾ fl. oz.<br>Or<br>15 fl. oz.<br>(7.3 or 11.3 fl. oz. a.i./A)   |

\*Diseases listed are caused by fungi, some of which are named below:

1. Dollar spot: *Sclerotinia homoeocarpa*; *Lanzia* or *Moellerodiscus* spp.
2. Brown patch: *Rhizoctonia solani*, *R. zeae*, *R. cerealis*
3. Leaf spots, Melting Out, Brown blight: *Drechslera* spp. (including *D. poae*, *D. siccans*), *Bipolaris sorokiniana*, *Curvularia* spp.
4. Gray leaf spot: *Pyricularia grisea*, *P. oryzae*
5. Red thread: *Laetisaria fuciformis*
6. Anthracnose: *Colletotrichum graminicola*
7. Copper spot: *Gloeocercospora sorghi*
8. Stem rust: *Puccinia graminis*
9. Dichondra leaf spot: *Alternaria* spp.

\*\*Does not include sod farms.

**Gray Snow Mold** caused by *Typhula* spp.: Apply in sufficient water to obtain adequate coverage (2 to 10 gallons per 1,000 square feet). Apply 5½ fluid ounces of **Chlorothalonil 720 Select** per 1,000 square feet of turf area (15 pints per acre). Application must be made before snow cover in autumn. If snow cover is intermittent or lacking during the winter, re-apply this product at monthly intervals until Gray Snow Mold conditions no longer prevail. In areas where Pink Snow Mold (*Microdochium* or *Fusarium* patch) is likely to occur, apply **Chlorothalonil 720 Select** at 5½ fluid ounces in combination with products containing iprodione at 2 ounces active ingredient per 1,000 square feet of turf area. Read and observe all label directions for products containing these active ingredients.

**Fusarium (Microdochium) Patch: Chlorothalonil 720 Select** is effective against *Fusarium* patch only in areas where snow cover is intermittent or lacking during the winter. Apply 5½ fluid ounces of **Chlorothalonil 720 Select** per 1,000 square feet of turf area. Begin applications in late autumn and re-apply at 21- to 28-day intervals until conditions favorable for *Fusarium* patch no longer prevail.

**Algal scum:** Apply **Chlorothalonil 720 Select** at 2 to 3.6 fluid ounces per 1,000 square feet on a 7- to 14-day schedule. When colonies of algae are well established, every attempt should be made to dry out the afflicted area. Once dry, spiking or verticutting should be done to enhance turfgrass recovery in conjunction with the use of this product. Several applications of this product at the high rate may be necessary for turfgrass recovery. When environmental conditions are favorable for algae growth, a preventative program with this product will suppress re-colonization of the turf.

#### Ornamental Plants

Apply **Chlorothalonil 720 Select** at a rate of 1¾ pints pounds per 100 gallons of water unless other directions are given in the tables below. Apply enough diluted spray per acre to provide thorough coverage of all plant parts that are intended to be protected from disease, generally ranging from 20 to 150 gallons per acre. Repeat applications at 7- to 14-day intervals until conditions are no longer favorable for disease. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply this product at 7-day intervals. **DO NOT apply more than a total of 36.4 lbs. chlorothalonil active ingredient per acre per growing season on field-grown ornamentals.**

Fruits and other structures which may be borne on treated plants **MUST NOT BE EATEN.**

This product may be used in greenhouses. DO NOT use mist blowers or high pressure spray equipment when making applications of this product in greenhouses.

**Chlorothalonil 720 Select** is recommended for control of fungal diseases referred to by numbers in parentheses following each type of ornamental plant. The user should test for possible phytotoxic responses, using recommended rates on each type of ornamental plant on a small area prior to widespread use. Applications made during bloom may damage flowers and/or fruits.

**Ornamentals Recommended for Treatment with Chlorothalonil 720 Select**

| <b>Broadleaf Shrubs and Trees</b>   |   |
|---|---|
| Andromeda ( <i>Pieris</i> ) (4)<br>Ash ( <i>Fraxinus</i> ) (1)<br>Aspen (1)<br>Azalea (1,2,4)<br>Buckeye, Horse chestnut (1)<br>Camellia (2)<br>Cherry-laurel (1)<br>Crabapple (1,6)<br>Dogwood (1)<br>Eucalyptus (3)<br>Euonymus (1)<br>Firethorn ( <i>Pyracantha</i> ) (1)<br>Flowering almond (1,2)<br>Flowering cherry (1,2)<br>Flowering peach (1,2)<br>Flowering plum (1,2)<br>Flowering quince (1,2)<br>Hawthorn (1,6) | Holly (1)<br>Lilac (5)<br>Magnolia (1)<br>Maple (1)<br>Mountain laurel (1)<br>Oak (red group only) (1,7)<br>Oregon-grape ( <i>Mahonia</i> ) (6)<br>Red-tip ( <i>Photinia</i> ) (1)<br>Poplar (1)<br>Privet ( <i>Ligustrum</i> ) (1)<br>Rhododendron (1,2,4)<br>Sand cherry (1,2)<br>Sequoia (1)<br>Spirea (1)<br>Sycamore, Planetree (1)<br>Viburnum (5)<br>Walnut ( <i>Juglans</i> ) (1) |

| <b>Flowering<sup>a</sup> Plants and Bulbs</b>  |  |
|--|--|
| Arabian violet (2)<br>Begonia (1)<br>Carnation (1,2)<br>Chrysanthemum (1,2)<br>Crocus (1)<br>Daffodil (1)<br>Daisy (1)<br>Geranium (1,6)<br>Gladiolus (1,2)<br>Hollyhock (6)<br>Hydrangea (foliage only) (1,6)<br>Iris (1,2) | Lily (1)<br>Marigold (1)<br>Narcissus (1)<br>Pansy (1)<br>Petunia (1,4)<br>Phlox (1)<br>Poinsettia <sup>b</sup> (1)<br>Rose <sup>c</sup> (1)<br>Statice (1)<br>Tulip (1)<br>Zinnia (1,5) |

- a/ Avoid applications during bloom period on plants where flower injury is unacceptable.  
 b/ Discontinue applications prior to bract formation; phytotoxicity is possible on the bracts.  
 c/ Use 1 pint of **Chlorothalonil 720 Select** per 100 gallons of water.

| <b>Foliage Plants</b>   |  |
|---|--|
| Aglaonema (1)<br>Areca palm (1)<br>Artemesia (1)<br>Boston fern ( <i>Nephrolepis</i> ) (1)<br>Dracaena (1)<br>Dumbcane ( <i>Dieffenbachia</i> ) (1)<br>Fatsia ( <i>Aralia</i> ) (1)<br>Ficus (1)<br>Florida ruffle fern (1)<br>Leatherleaf fern (1) | Lipstick plant (1)<br>Ming aralia (1)<br>Oyster plant ( <i>Rhoeo</i> ) (1)<br>Pachysandra <sup>d</sup> (1)<br>Parlor palm ( <i>Chamaedorea</i> ) (1)<br>Peperomia (1)<br>Philodendron (1,4)<br>Prayer plant ( <i>Maranta</i> ) (1)<br>Syngonium (1)<br>Zebra plant ( <i>Aphelandra</i> ) (1) |

- d/ Use 2¾ pints of **Chlorothalonil 720 Select** per 100 gallons of water.

**Leaf spots & Foliar Blights controlled with Chlorothalonil 720 Select**

|  |  |
|--|--|
| Actinopelte leaf spot<br>Alternaria leaf spot or leaf blight | Fabraea ( <i>Entomosporium</i> ) leaf spot<br>Fusarium ( <i>Gibberella</i> ) leaf spot |
|--|--|

|  |  |
|--|--|
| Anthracnose ( <i>Gnomonia</i> , <i>Glomerella</i> , <i>Colletotrichum</i> ,<br><i>Discula</i> ) blights<br>Black spot ( <i>Diplocarpon</i> )<br>Botrytis blights<br>Cephalosporium leaf spot<br>Cercospora leaf spot<br>Cercosporidium leaf spot<br>Shothole ( <i>Stigmina</i> )<br>Corynespora stem & leaf spots<br>Curvularia leaf spot<br>Dactylaria leaf spot<br>Didymellina leaf spot<br>Drechslera ( <i>Bipolaris</i> ) leaf spots, ink spot | Gloeosporium black leaf spot<br>Marssonina leaf spot<br>Monilinia blossom blight, twig blight<br>Mycosphaerella ray blight<br>Myrothecium leaf spot, brown rot<br>Phyllosticta leaf spot<br>Ramularia leaf spot<br>Rhizoctonia web blight<br>Scab ( <i>Venturia</i> )<br>Septoria leaf spot<br>Sphaeropsis leaf spot<br>Stagonospora leaf scorch<br>Tan leaf spot ( <i>Curvularia</i> )<br>Volutella leaf blight |
|--|--|

#### Flower Spots & Blights controlled with Chlorothalonil 720 Select

|   |  |
|---|--|
| Botrytis flower spot, flower blight<br>Curvularia flower spot<br>Monilinia blossom blight | Ovulinia flower blight<br>Rhizopus blossom blight<br>Sclerotinia flower blight |
|---|--|

#### Chlorothalonil 720 Select controls:

- Cylindrocladium stem canker
- Phytophthora leaf blight, dieback
- Erysiphe cichoracearum* (powdery mildew) *Microsphaera* spp.
- Sphaerotheca fuliginea* (powdery mildew) *Microsphaera* spp.
- Gymnosporangium* spp. (rust) *Puccinia* spp.
- Pucciniastrum hydrangeae* (rust) *Puccinia* spp.
- Taphrina blister

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**PESTICIDE STORAGE:** Store in a cool place. Protect from excessive heat.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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 HANDLING: Nonrefillable Container:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 ¼ 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### IMPORTANT INFORMATION - READ BEFORE USING PRODUCT CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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