

67760-110

11/5/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Ms. Jennifer L. DeCarlo  
Cheminova, Inc.  
1600 Wilson Boulevard, Suite 700  
Arlington, VA 22209

NOV 05 2013

Subject: Application for Pesticide Notification (PRN 98-10)  
Submission date: 9/24/13  
Product Name: Koverall Fungicide  
EPA Reg. No.: 67760-110  
EPA Decision Number: 483916

Dear Ms. DeCarlo:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. 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 Agency acknowledges the optional bracketed statements to accommodate packaging configuration and booklet designs.

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 Heather Garvie at 703-308-0034 or me at 703-308-9443.

Sincerely,

A handwritten signature in black ink, appearing to read "Hope A. Johnson".

Hope A. Johnson  
Product Manager (21)  
Fungicide Branch  
Registration Division (7504P)

|  |  |   |
|--|--|---|
| <b>EPA</b><br>United States<br>Environmental Protection Agency<br>Washington, DC 20460 | <input type="checkbox"/> Registration<br><input type="checkbox"/> Amendment<br><input checked="" type="checkbox"/> Other - <b>NOTIFICATION</b> | OPP Identifier Number<br><b>XXXXXXX</b> |
|--|--|---|

**Application for Pesticide - Section I**

|  |   |   |
|--|---|---|
| 1. Company/Product Number<br><b>67760-110</b>  | 2. EPA Product Manager<br><b>Hope Johnson</b> | 3. Proposed Classification<br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted  |
| 4. Company/Product (Name)<br><b>KOVERALL Fungicide</b>   | PM#<br><b>21</b>                              |   |
| 5. Name and Address of Applicant (Include ZIP Code)<br><b>Cheminova, Inc.<br/>         1600 Wilson Blvd.<br/>         Suite 700<br/>         Arlington, VA 22209</b> |   | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(I), my product is similar or identical in composition and labeling to:<br>EPA Reg. No.<br>Product Name |

Check if this is a new address

**Section - II**

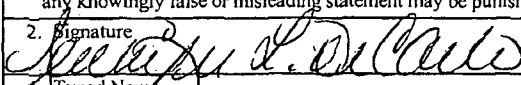
|  |  |
|--|--|
| <input type="checkbox"/> Amendment - Explain below.                            | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application  |
| <input checked="" type="checkbox"/> Notification - Explain below.              | <input type="checkbox"/> Other - Explain below   |

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)  
**Notification of Minor Label Changes per PR Notice 98-10.**  
 This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and 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 this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under Sections 12 and 14 of FIFRA.

**Section - III**

|   |   |   |  |  |  |
|---|---|---|--|--|--|
| 1. Material This Product Will Be Packaged In:   |   |   |  | 2. Type of Container   |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No<br><i>*Certification must be submitted</i>   | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"      No. per container<br>Unit Packaging wgt.      container | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"      No. per container<br>Package wgt.      container | <input type="checkbox"/> Metal<br><input checked="" type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input checked="" type="checkbox"/> Paper<br><input type="checkbox"/> Other (Specify) |  |  |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container  |   | 4. Size(s) Retail Container<br>Various  |  | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product |  |
| 6. Manner in Which Label is Affixed to Product<br><input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Other _____<br><input checked="" type="checkbox"/> Paper glued<br><input checked="" type="checkbox"/> Stenciled |   |   |  |  |  |

**Section - IV**

|  |   |  |
|--|---|--|
| 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).  |   |  |
| Name<br><b>Jennifer L. DeCarlo</b>   | Title<br><b>Registration Manager</b>    | Telephone No. (Include Area Code)<br><b>973-356-5557</b> |
| 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. |   | 6. Date Application Received<br>(Stamped)                |
| 2. Signature<br>   | 3. Title<br><b>Registration Manager</b> |  |
| 4. Typed Name<br><b>Jennifer L. DeCarlo</b>  | 5. Date<br><b>September 24, 2013</b>    |  |



Cheminova, Inc.  
Washington Office  
1600 Wilson Boulevard  
Suite 700  
Arlington, VA 22209

Phone: (703) 373-8883  
Fax: (703) 373-8887

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September 24, 2013

Hope Johnson, Product Manager, Team 21  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**Subject: Notification per PR Notice 98-10  
Koverall Fungicide  
EPA Reg. No. 67760-110**

Dear Ms. Johnson,

Cheminova, Inc. is hereby submitting the enclosed Notification per PR Notice 98-10, Section II, Labeling Notifications, Subparagraph E, Changes in Packaging and Related Labeling Statements. The following bracketed statements are individually optional and have been added to the enclosed label to accommodate packaging configuration and booklet designs:

- a. [See First Aid statement on back panel of booklet.]
- b. [See First Aid statement on back panel].
- c. [See additional precautionary statements and Directions for Use in booklet.]
- d. [Read the entire label before using this product. See First Aid, Precautionary Statements, Directions for Use on individual packages.]

No additional changes have been made to the enclosed label.

To support this notification, enclosed, please find the following documents:

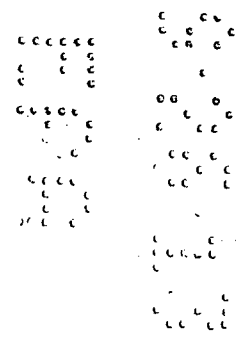
- Application for notification (Form 8570-1)
- One copy of revised labeling highlighting the requested changes
- Two copies of revised labeling

If you have any questions or require any additional information, please contact me at 973-356-5557 or by e-mail at [jennifer.decarlo@cheminova.com](mailto:jennifer.decarlo@cheminova.com).

Sincerely,

Jennifer L. DeCarlo  
Registration Manager

Enclosures



## KOVERALL Fungicide

### ACTIVE INGREDIENTS:

|  |       |       |
|--|-------|-------|
| Mancozeb: A coordination product of zinc ion and manganese ethylene bisdithiocarbamate         |       | 75.0% |
| manganese++  | 15.0% |       |
| zinc++   | 1.9%  |       |
| ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) | 58.1% |       |

### OTHER INGREDIENTS:

TOTAL:

25.0%

100.0%

EPA Reg No. 67760-110

EPA Est. No.:

NET CONTENT: \_\_\_\_\_ lbs.

**NOTIFICATION**

**NOV 05 2013**

Manufactured for:  
Cheminova, Inc.  
One Park Drive, Suite 150  
Research Triangle Park, NC 27709

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**IN CASE OF A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT, 1-866-303-6950**

*Note to PM, the following bracketed statements are individually optional depending on the packaging configuration and whether a booklet label design is used:*

- a. [See First Aid statement on back panel of booklet.]
- b. [See First Aid statement on back panel.]
- c. [See additional precautionary statements and Directions for Use in booklet.]
- d. [Read the entire label before using this product. See First Aid, Precautionary Statements, Directions for Use on individual packages.]

### FIRST AID

**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 a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

**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 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 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.

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Have the product container or label with you when calling a Poison Control Center or doctor, or when going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

***This product contains mancozeb and ETU, chemicals known to the State of California to cause cancer. ETU is also known to the State of California to cause birth defects or other reproductive harm.***

**Precautionary Statements  
Hazards to Humans and Domestic Animals  
CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are nitrile rubber, natural rubber, or butyl rubber. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

**Mixers, loaders, applicators and other handlers must wear:**

- long-sleeved shirt
- long pants
- shoes and socks
- chemical-resistant gloves made of any waterproof material.

See engineering controls for additional requirements.

**User Safety Requirements**

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

**Engineering Controls**

**Enclosed Cockpits:** Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)].

**Mechanical Flagging Engineering Controls:** Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

**User Safety Recommendations**

**Users should:**

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

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all *Directions for Use* carefully before applying.

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

**Agricultural Use Requirements**

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 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, oil or water, is:

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

**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.

Applications to golf courses, industrial (office park), and municipal lawns and ornamentals are not within the scope of the Workers Protection Standard.

- Keep unprotected persons out of treated area until sprays have dried.

**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in original container only. Store in a dry place and avoid excess heat. Carefully open containers. Do not put concentrate or dilute material into food or drink containers.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container: Do not use or refill this container. Completely empty bag into application equipment. Then offer for recycling, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

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## General Use Information

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KOVERALL Fungicide is a broad-spectrum fungicide labeled for use on outdoor and greenhouse grown crops, turf and ornamentals. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program. The addition of an agricultural surfactant will enhance fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and enhanced fungicide retention during periods of wet weather.

### Use Rate Determination

- Carefully read, understand, and follow label use rates and restrictions.
- When two pesticides are tank mixed, the more restrictive label conditions apply.
- Do not tank mix with any product which contains a restriction on tank mixing.
- Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum interval may be used for severe or threatening disease conditions.
- For proper application, determine the number of acres to be treated, the required label use rate and the volume to be applied per acre. Prepare only the amount of spray solution required to treat the measured acreage. Careful calibration of spray equipment is recommended prior to use.
- When applied by hand sprayers, 1 pound KOVERALL per 100 gallons per acre is equivalent to 1 level tablespoon per gallon spray solution.

### Mixing Procedures

Slowly pour into spray tank as it is being filled while agitation is maintained or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides, insecticides, growth regulators, micronutrients after KOVERALL has been placed into suspension. When tank mixing with other pesticides, observe the more restrictive label limitations and precautions.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume.

### Compatibility

KOVERALL is compatible with most commonly used agricultural fungicides, insecticides and growth regulators. When preparing tank mixes, consult spray compatibility charts or State Cooperative Extension Service Specialists prior to actual use.

### SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

### Wind Speed

Do not apply at wind speeds greater than 15 mph.

### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.



**Other State and Local Requirements**

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

**Equipment**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

*Additional requirements for aerial applicators:*

- 1. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- 2. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
- 3. When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

*Additional requirements for ground boom application:*

- 1. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

**Application**

**Ground**

Thorough coverage with foliar sprays generally results in optimum disease control. To achieve satisfactory coverage use proper spray pressure, volume of spray mixture per acre, nozzles (generally hollow cone), disc (generally D-5 to D-7), nozzle spacing, and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

**Hand Sprayers**

Thoroughly spray plant foliage until runoff.

**Aerial**

A uniform initial spray deposit over the crop canopy generally results in optimum disease control. Each aircraft should be prechecked for droplet size, uniformity of spray pattern, swath width, and spray volume. During aerial application, human flaggers are prohibited.

**Nozzle selection:** Hollow cone brass nozzles with a D-series orifice disc and core (whirlplate) are recommended. Nozzles should point straight down or slightly backward.

**Swath width:** For most field and vegetable crops, swaths just beyond the wingspan of 36 to 40 feet for light aircraft and up to 45 feet for heavier aircraft are suggested. Optimum swath for helicopters is usually 5 to 10 feet beyond normal boom length.

**Spray volume:** Aerial applications are to be made in a minimum of two (2) gallons of water per acre. On vegetable and field crops, 2 to 3 gallons of spray per acre are generally optimum; orchards and vineyards can be handled with spray volumes of 5 gallons per acre. Some tall or dense foliage crops requiring greater penetration to the lower leaf surface will require higher spray volumes. **Do not apply this product in fewer than 5 gallons spray volume per acre in California.**

**Altitude:** For most crops, the spray boom should be positioned in 5 to 10 feet above the crop canopy.

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**Flagging:** Mark swaths at the end of the field with permanent flags. Measure swaths accurately with a chain or other device except when rows can be accurately counted.

### Chemigation Use Directions

#### **Sprinkler Irrigation**

KOVERALL must be applied on a regular protectant fungicide schedule, **not an irrigation schedule.**

If irrigation cycles are less frequent than recommended KOVERALL application intervals, ground or aerial applications must supplement chemigation applications to achieve adequate disease control.

#### **General Requirements**

- Apply KOVERALL only through sprinkler irrigation systems including center-pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move irrigation systems. Do not apply product through any other type of irrigation system.
- Lack of fungicidal 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 a State Extension Service specialist, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water system are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### **Specific Chemigation Equipment Requirements**

Before applying KOVERALL through sprinkler irrigation equipment, the chemigation system must meet the following specifications:

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There must 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.
- Systems not connected to a public water supply must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located in the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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

**Center-Pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment** (Use only with electric or oil hydraulic drive systems which provide a uniform water distribution):

- Determine the size of the area to be treated.
- Determine the time required to apply no more than 1/4 inch water (6,750 gallons water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer. Run system at 80% to 95% of manufacturer's rated capacity.
- Using only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of KOVERALL required for the treatment area.
- Add the required amount of KOVERALL and sufficient water to meet the injection time requirements of the solution tank.
- Maintain constant solution tank agitation during the injection period.
- Stop injection equipment after treatment is completed. Continue to operate the system until KOVERALL solution has cleared the sprinkler head.

**Solid-Set, Side (Wheel) Roll, and Hand Move Irrigation Equipment:**

- Determine acreage covered by sprinkler.
- Fill injector solution tank with water and adjust flow rate to use contents over a 10 to 30-minute interval.
- Determine the amount of KOVERALL required for the treatment area.
- Add the required amount of KOVERALL into the same quantity of water used to calibrate the injection equipment.
- Maintain constant solution tank agitation during the injection period.
- Operate system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during calibration.
- Inject KOVERALL at the end of the irrigation cycle or as separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until KOVERALL solution has cleared the last sprinkler head.

### **Disease Monitoring**

KOVERALL is a broad-spectrum fungicide. If not applied on a routine protectant spray schedule, scout crops on a weekly basis. Apply fungicide at the required label use rate and spray schedule, at the first sign of disease, report of disease in the area, or during environmental conditions favorable for disease development.

### **Restrictions**

Users must carefully read, understand, and follow all use restrictions prior to using KOVERALL.

### **Foliar Applications**

**Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per Season:** If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

**Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season:** If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

**Seed Treatment**

In addition to the maximum number of foliar applications permitted by the formula stated above, a single application for seed treatment may be made on crops, which have registered seed treatment uses.

**Cole Crop (Brassica) Leafy Vegetables**

| Crop                 | Diseases Controlled                  | KOVERALL Rate per Application (lb/acre) | Application Directions   | Restrictions   |
|----------------------|--------------------------------------|---|--|--|
| broccoli and cabbage | Alternaria leaf spot<br>Downy Mildew | 1.6-2.1                                 | In plant beds or direct-seeded fields, apply 7 to 10 days after planting or earlier if disease is present. If field applications, apply as soon as disease is present and reapply as needed on a 7 to 10 day spray schedule. | Do not apply more than 12.8 lb. KOVERALL (9.6 lb ai) per acre.<br><b>Preharvest Interval:</b> Do not apply within 7 days of harvest. Do not apply this product with a U-boom device<br><b>Minimum Retreatment Interval: 7 days</b> |

**Cucurbits**

Begin applications when the plants are in the two-leaf stage and repeat at 7- to 10-day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces.

| Crop   | Diseases Controlled  | KOVERALL Rate per Application (lb/acre) | Application Directions   | Restrictions   |
|--|--|---|--|--|
| chayote<br>Chinese waxgourd<br>citron melon<br>cucumber<br>gherkin<br>gourd, edible<br><i>Momordica</i> spp.<br>muskmelon<br>pumpkin<br>squash, summer<br>squash, winter<br>watermelon | alternaria leaf spot<br>anthracnose<br>cercospora leaf spot<br>downy mildew<br>gummy stem blight<br>scab     | 2 to 3                                  | Start application when plants are in the two-leaf stage and repeat at 7-to 10-day intervals. Use sufficient water and direct the spray to provide thorough coverage of both upper and lower leaf surfaces. Consult State Cooperative Extension Specialist prior to use.  | Do not apply more than 25.6 lb of KOVERALL (19.2 lb ai) per acre per year.<br><br>Do not make more than 8 applications per year.<br><br>Do not apply within 5 days of harvest. |
| melons<br>cantaloupes<br>casaba<br>crenshaw<br>honeydew  | Alternaria leaf spot<br>anthracnose<br>downy mildew<br>gummy stem blight<br>Microdochium blight <sup>†</sup> | 2 to 3                                  | Start application when plants are in the two-leaf stage and repeat at 7-to10-day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces. Some cantaloupe varieties (i.e.: Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to KOVERALL. Consult a State Cooperative Extension Service Specialist prior to use. | Do not apply within 5 days of harvest. Do not apply more than 25.6 lb KOVERALL (19.2 lb ai) per acre per crop.<br><br>Do not make more than 8 applications per year.           |
| Watermelons  | Microdochium blight <sup>†</sup><br>scab   | 2 to 3                                  |  | Do not apply within 5 days of harvest. Do not apply more than 25.6 lb KOVERALL (19.2 lb ai) per acre per crop. Do not make more than 8 applications per year.                  |

<sup>†</sup> Not approved for use on this pest species in California.

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**Fruiting Vegetables  
(Except Cucurbits)**

| Crop    | Diseases Controlled  | KOVERALL Rate per Application (lb/acre)                                      | Application Directions  | Restrictions  |
|---------|--|--|---|---|
| Peppers | Anthracnose<br>early blight<br>phomopsis blight<br>or fruit rot<br>Alternaria Leaf Spot<br>Downy Mildew<br>Cercospora Leaf Spot<br>(Frogeye Spot)<br>Phytophthora Blight<br>Ripe Rot | 2 (west of the<br>Mississippi River)<br>3 (east of the<br>Mississippi River) | Begin application<br>when disease<br>appears and<br>reapply on a 7 to<br>10-day spray<br>schedule | East of the Mississippi<br>River, do not apply<br>more than 19.2 lb<br>KOVERALL (14.4 lb ai)<br>per acre per crop and<br>do not apply within 7<br>days of harvest.<br><br>West of the Mississippi<br>River, do not apply<br>more than 12.8 lb<br>KOVERALL (9.6 lb ai)<br>per acre per crop and<br>do not apply within 7<br>days of harvest.<br>Minimum retreatment<br>interval is 7 days. Do<br>not apply this product<br>with a U-boom device. |

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**Lettuce**  
**(Head and Leaf)**

| <b>Crop</b> | <b>Diseases Controlled</b>                          | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Application Directions</b>  | <b>Restrictions</b>  |
|-------------|---|--|--|--|
| Lettuce     | downy mildew<br>Alternaria Leaf Spot*<br>Anthracose | 2  | Begin applications when disease appears and reapply on a 7- to 10-day treatment schedule | <b>In California</b> , do not apply more than 8.5 lb KOVERALL (6.4 lb ai) per acre per crop and do not apply within 14 days of harvest. <b>In states other than California</b> , do not apply more than 12.8 lb KOVERALL (9.6 lb ai) per acre per crop and do not apply within 10 days of harvest. Minimum retreatment interval is 7 days. Do not apply this product with a U-boom device. |

\*Not for use on this pest in California

**Pome Fruits**

Use either the Pre-Bloom/Bloom Use or Extended Application schedule. Do not combine or integrate the two treatment schedules. It is recommended that this product be used in an integrated Pest Management Program (IPM).

| Crop                                    | Diseases Controlled                | KOVERALL Rate per Application (lb/acre) | Remarks (Also Refer to Directions for Use)  | Restrictions  |
|---|------------------------------------|---|---|---|
| apples<br>crabapples<br>pears<br>quince | Fabraea leaf spot<br>rusts<br>scab | 6.0 <sup>†</sup>                        | <p><b>Pre-Bloom/Bloom Use:</b><br/>Begin applications at 1/4- to 1/2- inch green tip and continue on a 7- to 10-day schedule through bloom</p> <p><b>Do not combine or integrate the prebloom application schedule with the post-bloom "extended application" schedule.</b></p>   | <p>Do not apply more than 6 lb KOVERALL (4.5 lb ai) per acre per application.<br/>Do not apply after bloom.<br/>Do not apply more than 24 lb KOVERALL (18 lb ai) per acre per year.<br/>Do not graze livestock in treated areas.</p>                    |
|   |                                    | 3.0 <sup>†</sup>                        | <p><b>Extended Application Schedule for Use in Tank Mixtures with systemic fungicides:</b> For implementation of IPM programs, applications based on tree-row volume, or for use as a resistance management tool, begin applications at 1/4 to 1/2 inch green tip and continue applications on a 7- to 10-day schedule through the second cover spray or to within 77 days of harvest.</p> <p><b>Do not combine or integrate the prebloom application schedule with the post-bloom "extended application" schedule.</b></p> | <p>Do not apply more than 3 lb. KOVERALL (2.25 lb ai) per acre per application.<br/>Do not apply within 77 days of harvest.<br/>Do not apply more than 21 lb KOVERALL (15.75 lb ai) per acre per year.<br/>Do not graze livestock in treated areas.</p> |

<sup>†</sup> Maximum per acre use rate based on thorough coverage dilute sprays.



Fruits

| Crop                            | Diseases Controlled                                 | KOVERALL Rate per Application (lb/acre)  | Remarks (Also Refer to Directions for Use)  | Restrictions   |
|---------------------------------|---|--|---|--|
| bananas<br>(including plantain) | sigatoka  | 2 to 3   | Apply when leaves first appear and repeat every 14- to 21-days or as required. Use sufficient water to provide adequate coverage. The addition of a Latron surfactant to spray solutions will improve performance.  | Do not apply more than 30 lb KOVERALL (22.5 lb ai) per acre per growing cycle. Applications can be made up to the day of harvest.  |
| cranberries                     | fruit rot   | 3 to 6   | Start applications at early-bloom and repeat at 7- to 10-day intervals as required.   | Do not apply within 30 days of harvest. Do not apply more than 18 lb KOVERALL (13.5 lb ai) per acre per season.  |
| grapes                          | black rot<br>bunch rot<br>Phomopsis<br>downy mildew | 1.5 to 2.5<br>West of the Rocky Mountains<br><br>1.5 to 4<br>East of the Rocky Mountains | Apply in sufficient water to provide thorough coverage starting when new shoots are 1/2 to 1-1/2 inches long. Repeat when shoots are 3- to 5-inches long, when shoots are 8- to 10-inches long, and then at 7- to 10-day intervals until fruit is set. Other fungicides labeled for use on grapes may provide late season control of black rot, phomopsis and downy mildew. | In California, do not apply after bloom. In other areas, do not apply within 66 days of harvest. West of the Rocky Mountains, do not apply more than 7.5 lb KOVERALL (5.6 lb ai) per acre per season. East of the Rocky Mountains, do not apply more than 24 lb KOVERALL (18 lb ai) per acre per season. |
| papayas                         | anthracnose<br>Phytophthora<br>fruit rot            | 2 to 2.5   | Use minimum 50 gallons water per acre. Start applications at flowering and continue at 14- to 21-day intervals. Direct spray to crown and blossom area.<br><br><b>Do not make more than 14 applications per year.</b>   | Do not apply more than 37 lb KOVERALL (28 lb ai) per acre per year. Applications may be made up to the day of harvest.   |

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**Clarification of the Maximum Use Rate for Mancozeb and Zoxamide  
When GAVEL 75DF is used on Grapes Grown East of the Rocky Mountains**

KOVERALL contains only one active ingredient (ai), mancozeb. Gavel® 75DF contains two active ingredients, mancozeb and zoxamide. The maximum allowable application rate for mancozeb in grapes is 3.0 lbs. ai/acre and a total of 18 lbs. ai/acre per season, regardless of the source of mancozeb. Do not apply any product containing mancozeb within 66 days of grape harvest.

The maximum allowable application rate for zoxamide in grapes is 0.2075 lbs. ai/acre and a total of 1.25 lb ai per season. The maximum rate for Gavel 75DF per application and per season may not exceed the maximum rate per application and per season for either mancozeb or zoxamide.

**Formulations and Active Ingredient**

| Fungicide  | Unit of Measure | Zoxamide (lb ai/unit of measure) | Mancozeb (lb ai/unit of measure) |
|------------|-----------------|----------------------------------|----------------------------------|
| KOVERALL   | 1 pound         | 0.000                            | 0.75 lb. ai per lb. of product   |
| Gavel 75DF | 1 pound         | 0.083                            | 0.67 lb. ai per lb. of product   |

**Tree Nuts**

| Crop   | Diseases Controlled   | KOVERALL Rate per Application (lb/acre) | Remarks (Also Refer to Directions for Use)  | Restrictions  |
|--------|---|---|---|---|
| Almond | blossom blight ( <i>Monilinia</i> spp)<br>shothole ( <i>Stigmina</i> spp) | 6.4 lb/A                                | Begin application at dormant to popcorn stage, full bloom or petal fall. Reapply every 7 to 10 days if bloom is staggered and weather is rainy. Do not use less than 10 gallons of spray volume per acre if aerially applied. | Do not apply more than 19.2 lb KOVERALL (14.4 lb ai) per acre per use season. Do not make last application later than 5 weeks after petal fall. Do not graze livestock in treated area. Minimum retreatment interval is 7 days. Do not apply this product with a U-boom device. |

**Tropical Fruits**

| Crop   | Diseases Controlled  | KOVERALL Rate per Application (lb/acre) | Remarks (Also Refer to Directions for Use)  | Restrictions   |
|--|--|---|---|--|
| atemoya<br>cherimoya<br>custard<br>apple<br>sugar apple<br>sweetsop                          | Anthracoese  | 2 - 2.5                                 | Begin applications at flowering and continue at a 7-day retreatment interval. Applications made with aerial equipment must be made in a minimum spray volume of 10 gallons per acre | Do not apply more than 35 lb of KOVERALL (26.25 lb ai) per acre per year. Do not make more than 14 applications per year. Applications may be made up to the day of harvest. |
| canistel<br>mamey<br>sapote<br>mango<br>sapodilla<br>star apple<br>(caimito)<br>white sapote | Anthracoese<br>black spot ( <i>cercospora</i> )<br>phytophthora<br>fruit rot | 2 - 2.5                                 | Begin applications at flowering and continue at 14- to 21-day intervals. Direct spray to crown and blossom area. Use 20 to 100 gallons of water per acre.                           | Do not apply more than 37.3 lb of KOVERALL (28 lb ai) per acre per year. Applications may be made up to the day of harvest.  |

**Vegetables**

| <b>Crop</b>  | <b>Diseases Controlled</b>                  | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Remarks (Also Refer to Directions for Use)</b>  | <b>Restrictions</b>   |
|--|---|--|--|---|
| asparagus  | Cercospora leaf spot<br>rust                | 2  | Start applications when rust first appears and repeat at 10-day intervals. Four applications are usually sufficient.           | Apply only on asparagus ferns after spears have been harvested. Do not apply more than 8 lb KOVERALL (6 lb ai) per acre per season. Do not apply within 120 days of harvest in California and Arizona or within 180 days in all other states.   |
| <b>Crop</b>  | <b>Diseases Controlled</b>                  | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Remarks (Also Refer to Directions for Use)</b>  | <b>Restrictions</b>   |
| corn<br>(sweet corn for fresh use or processing; popcorn; and sweet corn for seed production, including hybrid seed) | common rust<br>Helminthosporium leaf blight | 1.5  | Use sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4- to 7-day intervals. | Do not apply within 7 days of harvest. Do not feed treated forage to livestock. East of the Mississippi River, Arkansas and Louisiana: do not apply more than 22.5 lb KOVERALL (17 lb ai) per acre per crop. West of the Mississippi River (except Arkansas and Louisiana): do not apply more than 7.5 lb KOVERALL (5.6 lb ai) per acre per crop. Field and Field Corn for Hybrid Seed Production: Do not apply within 40 days of harvest. Do not apply more than 15 lb KOVERALL (11.25 lb ai) per acre per crop. |

**Vegetables (continued)**

| <b>Crop</b>                             | <b>Diseases Controlled</b>  | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Remarks (Also Refer to Directions for Use)</b>   | <b>Restrictions</b>  |
|---|---|--|---|--|
| onions (dry bulb)<br>garlic<br>shallots | Botrytis leaf blight<br>downy mildew<br>neck rot<br>purple blotch<br>rust | 3  | Follow a protective spray schedule starting when diseases are first reported in the area and repeat at 7-day intervals throughout the season. Do not allow spray or drift to contact bulbs after lifting from soil.   | Do not apply within 7 days of harvest. Do not apply more than 30 lb KOVERALL (22.5 lb ai) per acre per crop. Do not apply to exposed bulb.   |
| onions (furrow drench)                  | damping-off<br>seed rots<br>seedling blights<br>smut                      |  | Apply 3 lb per acre as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons water per acre.   | Do not use more than 3 lb KOVERALL (2.25 lb ai) per acre (29,000 linear feet of furrow) with an 18 inch row spacing. Do not use in California.   |
| <b>Crop</b>                             | <b>Diseases Controlled</b>  | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Remarks (Also Refer to Directions for Use)</b>   | <b>Restrictions</b>  |
| Potatoes                                | early blight<br>late blight   | 1 to 2   | Begin applications when plants are 4 to 6 inches high by applying 0.5 to 1.0 lb/acre. As the vines increase in size, apply 1.5 to 2.0 lb/acre at 5- to 10-day intervals or apply 0.75 to 1.0 lb/acre at 3- to 5-day intervals. It is recommended that this product be used within an Integrated Pest Management Program. Also, vine-kill should occur 14 days before harvest. | Do not apply more than 15 lb KOVERALL (11.2 lb ai) per acre per crop. Do not apply within 3 days of harvest in Connecticut, Florida, Maine, Massachusetts, New Hampshire, New York, Ohio, Pennsylvania, Vermont, and Wisconsin and at least 14 days elsewhere. |

**Vegetables (continued)**

| <b>Crop</b>                      | <b>Diseases Controlled</b>   | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Remarks (Also Refer to Directions for Use)</b>  | <b>Restrictions</b>  |
|----------------------------------|--|--|--|--|
| potato<br>(seed-piece treatment) | Fusarium decay<br>late blight<br>seedborne<br>common scab<br>Rhizoctonia<br>shoot blight<br>sliver scurf | See<br>Remarks                                 | Dip whole or cut potato tubers in 1.25 lb KOVERALL per 50 gallons of water. Place treated tubers in a clean container following treatment and plant as soon as possible. Spread treated seed pieces in a cool place if held before planting. | Do not use treated seed potatoes for food or feed purposes. Seed pieces that have been treated with this product that are then packaged or bagged for future use must be colored with an EPA-approved dye to impart an un-natural color and must contain the following labeling on the outside of the seed piece package or bag: "Treated Seed Pieces. Seed pieces have been treated with the fungicide mancozeb. When opening this bag or loading/pouring the treated seed pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any R, P, or HE filter. Do Not Use for Food, Feed, or Oil Purposes. After the seed pieces have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: Once the seed pieces are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface." |

**Vegetables (continued)**

| <b>Crop</b> | <b>Diseases Controlled</b>  | <b>KOVERALL Rate per Application (lb/acre)</b>  | <b>Remarks (Also Refer to Directions for Use)</b>   | <b>Restrictions</b>  |
|-------------|---|---|---|--|
| tomatoes    | anthracnose<br>early blight<br>gray leaf spot<br>late blight<br>leaf mold<br>Septoria leaf spot | 0.75-1.0<br>West of the Mississippi River<br><br>0.75 to 1.5<br>East of the Mississippi River | Start application when seedlings emerge or transplants are set. Repeat at 3 to 7 day intervals throughout the season.   | Do not apply within 5 days of harvest. West of the Mississippi River, do not apply more than 8.5 lb KOVERALL (6.4 lb ai) per acre per crop. East of the Mississippi River, do not apply more than 22.4 lb KOVERALL (16.8 lb ai) per acre per crop. |
|             | bacterial speck and spot  | 1.5 to 2<br>West of the Mississippi River<br>1.5 to 3<br>East of the Mississippi River        | Start application when seedlings emerge or transplants are set. Repeat at 7- to 10-day intervals throughout the season. | East of the Mississippi River, do not apply more than 22.4 lb KOVERALL (16.8 lb ai) per acre per crop. West of the Mississippi River, do not apply more than 8.5 lb KOVERALL (6.4 lb ai) per acre per crop.  |

**Field Crops**

| Crop             | Diseases Controlled                              | KOVERALL Rate per Application (lb/acre) | Remarks (Also Refer to Directions for Use)  | Restrictions  |
|------------------|--|---|---|---|
| barley           | Refer to wheat                                   |   |   |   |
| hybrid seed corn | common corn rust<br>Helminthosporium leaf blight | 1.5                                     | Start applications when disease symptoms first appear and, depending on severity of infection, continue on a 4- to 7-day interval.  | Do not apply more than 15 lb KOVERALL (11.25 lb ai) per acre per crop.<br>Do not feed treated forage to livestock.<br>Do not apply within 40 days of harvest.     |
| oats             | Refer to wheat                                   |   |   |   |
| peanuts          | Cercospora leaf spot<br>Rust                     | 1 to 2                                  | Start applications when disease first appears or is reported in area. Repeat sprays at 7- to 14-day intervals. Reduce sprays to a 7 day interval during humid weather.        | Do not apply within 14 days of mancozeb harvest.<br>Do not use more than 16 lb (12 lb ai) per acre per crop.<br>Do not feed treated vines to livestock.           |
| rye              | Refer to wheat                                   |   |   |   |
| sugar beets      | Cercospora leaf spot                             | 1.5 to 2                                | Start applications when disease first threatens and repeat every 7- to 10-days as needed.<br>The addition of a Latron surfactant to spray solutions will improve performance. | Do not apply within 14 days of harvest.<br>Do not apply more than 14 lb KOVERALL (10.5 lb ai) per acre per crop.<br>Do not feed treated sugar beets to livestock. |



**Field Crops (continued)**

| <b>Crop</b> | <b>Diseases Controlled</b>   | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Application Directions</b>  | <b>Restrictions</b>  |
|-------------|--|--|--|--|
| wheat       | Helminthosporium leaf spot<br>leaf rust<br>Septoria glume blotch<br>Septoria leaf spot<br>tan spot | 2  | Start applications at onset of disease or when plants are in the tillering to jointing stage and repeat at 7- to 10-day intervals. | Do not make more than three applications during the season.<br>PHI: Do not apply after Feekes Growth Stage 10.5 (typically 35-45 days), but no less than 26 days before harvest.<br>Do not graze livestock in treated areas prior to harvest.<br>Do not apply more than 6 lb KOVERALL (4.5 lb ai) per acre per crop. |
| triticale   |  |  | Refer to wheat   |  |

**Root Vegetables**

| <b>Crop</b> | <b>Diseases Controlled</b> | <b>KOVERALL Rate per Application (lb/acre)</b> | <b>Application Directions</b>   | <b>Restrictions</b>  |
|-------------|----------------------------|--|---|--|
| ginseng     | alternaria blight          | 2.0  | Begin applications when disease first threatens and repeat every 7 to 10 days as needed. In Wisconsin, apply with ground equipment and a minimum of 80 gallons of water per acre. | Do not apply more than 24 lb of KOVERALL (18 lb ai) per acre per year. Do not make more than 12 applications per year. Do not apply within 30 days of harvest. |

Miscellaneous

| Crop                      | Diseases Controlled   | KOVERALL Rate per Application               | Remarks (Also Refer to Directions for Use)  |
|---------------------------|---|---|---|
| asparagus crowns          | crown rot   | 1 lb per 100 gal                            | Place loosely packed crowns into a burlap bag and soak, with gentle agitation, in the fungicide solution for 5 minutes. Remove bag, drain well, and plant crowns as soon as possible. A tank large enough to hold a single burlap bag will treat 2 bags of crowns. Clean dipping suspension should then be prepared in a clean tank. Dirty crowns should be pre-washed to remove excess soil.                         |
| caprifuig                 | assorted molds endosepsis (Fusarium)                              | 4 lbs/100 gal                               | Prepare mamme figs by making a shallow cut through the eye and then hand dividing to avoid wasp injury. Submerge mamme figs in the fungicide suspension for a minimum of 15 minutes. The fungicide suspension should be stirred frequently to prevent settling out. Fresh dipping solution should be used after treating 4 or 5 batches of figs. After treatment, figs should be drained prior to placement in trees. |
| Christmas trees (conifer) | Lophodermium needle cast<br>pine gall rust<br>Scirrhia brown spot | 1 to 2 lb per acre or 1 to 2 lb per 100 gal | Begin application in spring or early summer before infection occurs. Repeat after heavy rains. Make applications at 7- to 10-day intervals.   |
| Douglas fir               | Swiss needle cast   |   |   |

Turf

For use on sod farms, golf courses, industrial and commercial lawns and other similar nonresidential areas. Not for use on residential or athletic turf.

Restrictions:

Sod Farm Turf:

- Harvesting of treated turf is prohibited until 5 days following application.
- Limit to a maximum of 4 applications per year and a maximum rate of 23.2 lb of product per acre (17.4 lb ai/A) per application.
- Minimum interval between applications is 10 days.

**Golf Courses:**

- For cool season grasses; greens, tees and aprons – limit to a maximum of 5 applications per year at a maximum application rate of 23.2 lb of product per acre (17.4 lb ai/A) per application.
- For cool season grasses; fairways – limit to a maximum of 4 applications per year at a maximum application rate of 23.2 lb of product per acre (17.4 lb ai/A) per application.
- For warm season grasses; greens, tees and aprons – limit to a maximum of 4 applications per year at a maximum application rate of 23.2 lb of product per acre (17.4 lb ai/A) per application.
- For warm season grasses; fairways – limit to a maximum of 3 applications per year at a maximum application rate of 23.2 lb of product per acre (17.4 lb ai/A) per application.
- Minimum interval between applications is 10 days.

**All Other Turf:**

- Limit to a maximum of 4 applications per year and a maximum application rate of 23.2 lb of product per acre (17.4 lb ai/A) per application.
- Minimum interval between applications is 10 days.

Start application when grass greens up in spring or when disease first appears and repeat at 10- to 14-day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule. Apply in sufficient water to provide adequate coverage.

**Turf Tolerance**

Treated turfgrass should be maintained in a vigorous growing condition. Turfgrass under stress will not respond to fungicide treatments as well as well-maintained turfgrass. Turfgrass tolerance to this product has been found to be acceptable; however, this product and tank mixtures with other products have not been tested on all varieties of every turfgrass species or under all possible growing conditions. If user is unfamiliar with the performance of KOVERALL or tank mixtures, under user growing conditions, a limited area of turfgrass should be treated prior to initiating large-scale applications.

| Crop             | Diseases Controlled  | KOVERALL Rate per Application (oz/1000 sq ft) | Remarks (Also Refer to Directions for Use) | Restrictions   |
|------------------|--|---|--|--|
| assorted grasses | Helminthosporium melting-out rust (leaf, stem, stripe)     | 4   |  | Do not graze treated areas.  |
|                  | copper spot<br>Fusarium blight<br>red thread<br>slime mold | 4 to 8  |  | Do not use on grasses intended for grazing, such as range or pasture grasses.    |
|                  | algae  | 6   |  |  |
|                  | dollar spot  | 6 to 8  |  | Do not feed clippings to livestock.<br><br>Do not use on grasses grown for seed. |

**Turf (continued)**

| Crop | Diseases Controlled     | KOVERALL Rate per Application (oz/1000 sq ft) | Remarks (Also Refer to Directions for Use)   | Restrictions   |
|------|-------------------------|---|--|--|
|      | Rhizoctonia brown patch | 4   | Apply on a 10-day spray schedule.  | Do not graze treated areas.  |
|      | Pythium blight          | 8   | Apply at 10-day intervals.   | Do not use on grasses intended for grazing, such as range or pasture grasses.    |
|      | Fusarium snow mold      | 6 to 8  | Apply at 2 to 6 week intervals during winter.  |  |
|      | Gray leaf spot          | 8   | Apply on a 14-day spray schedule when conditions are favorable for disease development | Do not feed clippings to livestock.<br><br>Do not use on grasses grown for seed. |

**Ornamentals**

**Restrictions**

- Cut flowers and greenhouse grown ornamentals: Limit to 20 applications per year.
- Do not use for food or feed

Neither the manufacturer nor the seller has determined the effects of using KOVERALL on ornamentals not specified on this label.

Prior to any large-scale applications on such plants, the user should determine the effects of KOVERALL by testing a small section of the type of plants treated. The Conditions of Sale and Warranty apply to all uses.

For outdoor (field nursery) or greenhouse use, apply the equivalent of 1-2 lb KOVERALL per 100 gallons of dilute spray (1.5 lb KOVERALL per acre). The addition of Latron B-1956 to spray solutions will improve performance.

Begin spraying when plants are well leafed out or at first sign of disease, in a full coverage spray at 7- to 10-day intervals throughout season or follow State Extension Service recommendations for disease control on the following ornamental plants.

**Ornamentals (continued)**

| Crop                    | Diseases Controlled   | Remarks (Also Refer to Directions for Use - Restrictions)   |
|-------------------------|---|---|
| African violet          | Botrytis blight   |   |
| almond<br>(ornamental)  | leaf spot   |   |
| alyssum                 | leaf spot   |   |
| anthurium               | anthracnose, spadix rot   |   |
| apple<br>(ornamental)   | Fabraea leaf spot<br>rust<br>scab                                       |   |
| arborvitae              | Cercospora blight   |   |
| areca palm              | leaf spot   |   |
| ageratum                | Botrytis blight<br>rust   |   |
| ash, mountain           | Entomosporium leaf spot<br>Guignardia leaf blotch                       |   |
| ash, white              | anthracnose<br>Cylindrosporium leaf spot                                |   |
| aster                   | Leaf spot   |   |
| aster, perennial        | Alternaria leaf spot<br>anthracnose                                     |   |
| azalea                  | Cylindrocladium rot<br>petal blight<br>Phytophthora twig and bud blight | Apply in a full coverage spray, 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes. |
| bougainvillea           | Leaf spot   |   |
| begonia                 | Botrytis blight   |   |
| boxwood                 | Leaf spot   |   |
| buffaloberry            | Cylindrosporium leaf spot   |   |
| camellias               | petal blight  | Refer to Azalea.  |
| carnation               | rust<br>Septoria leaf spot  |   |
| cedar, red<br>(juniper) | Cercospora blight<br>Phomopsis blight                                   |   |
| chrysanthemum           | Ascochyta blight<br>Botrytis petal spot<br>rust                         | Apply twice weekly during blooming period.  |
| cockscomb<br>(celosia)  | Alternaria leaf spot  |   |

**Ornamentals (continued)**

| <b>Crop</b>                                   | <b>Diseases Controlled</b>   | <b>Remarks (Also Refer to Directions for Use - Restrictions)</b>  |
|---|--|---|
| conifers<br>(Christmas trees)                 | Lophodermium needle cast<br>pine gall rust<br>Scirrhia brown spot                    | Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals as long as needed.  |
| cordyline                                     | Cercospora leaf spot   |   |
| crabapple<br>(ornamental)                     | cedar-apple rust<br>scab<br>Sphaeropsis leaf spot                                    |   |
| cypress, Arizona<br>( <i>Cupressus spp.</i> ) | Cercospora blight<br>Monochaetia canker  |   |
| dahlia  | Botrytis blight  |   |
| delphinium                                    | Botrytis blight  |   |
| dieffenbachia                                 | Leptosphaeria brown spot   |   |
| dogwood,<br>flowering                         | anthracnose<br>Elsinoe leaf spot<br>Septoria leaf spot                               | Apply when buds begin to open, when bracts have fallen, 4 weeks later and again in late summer after flower buds for next season have formed.   |
| dracaena                                      | Fusarium leaf spot   |   |
| elm   | black leaf spot  |   |
| euonymus                                      | anthracnose  |   |
| fatsia  | anthracnose  |   |
| fern  | Rhizoctonia blight   |   |
| fig   | Cercospora leaf spot   |   |
| fig   | Cylindrocladium leaf spot  |   |
| firethorn<br>( <i>pyracantha</i> )            | Fusicladium scab   |   |
| fir, Douglas                                  | Swiss needle cast  |   |
| fir, fraser                                   | Swiss needle cast  |   |
| fuchsia                                       | Botrytis blight<br>rust  |   |
| geranium                                      | rust   |   |
| gladiolus                                     | Botrytis blossom blight<br>Curvularia leaf spot                                      | Make regular weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather. On flower spikes, reduce spray concentration to 3/4 lb per 100 gallons. |
| gloxinia                                      | Botrytis blight  |   |
| gypsophila                                    | Botrytis blight  |   |
| hawthorn                                      | cedar-apple rust<br>Fabraea leaf spot<br>frog-eye leaf spot<br>hawthorn rust<br>scab |   |
| hickory                                       | Gnomonia leaf spot   |   |
| holly   | purple spot  |   |

## Ornamentals (continued)

| Crop                      | Diseases Controlled   | Remarks (Also Refer to Directions for Use – Restrictions)   |
|---------------------------|---|---|
| hollyhock                 | anthracnose<br>Cercospora leaf spot<br>Puccinia rust                        |   |
| honeysuckle               | Herpobasidium blight  |   |
| horsechestnut,<br>buckeye | Alternaria leaf spot<br>Guignardia leaf blotch                              |   |
| hydrangea                 | Botrytis blight<br>Cercospora leaf spot                                     |   |
| impatiens                 | Botrytis blight   |   |
| iris                      | Didymellina leaf spot<br>Mycosphaerella leaf spot<br>Mystrosporium ink spot | (formerly Didymellina)  |
| juniper                   | Phomopsis blight  |   |
| larkspur                  | rust  |   |
| laurel, mountain          | Cercospora leaf spot<br>petal blight  | Refer to azalea.  |
| ligustrum                 | Cercospora leaf spot  |   |
| lily                      | Botrytis blight   |   |
| magnolia                  | Gloeosporium leaf spot  |   |
| maple                     | Alternaria leaf spot<br>Phyllosticta leaf spot                              | Do not use sap for syrup production.  |
| marigold                  | Botrytis blossom blight   | Do not use on French dwarf double or Signet type marigold seedlings.  |
| narcissus                 | Botrytis blight (fire)<br>smoulder  |   |
| oak                       | Actinopelte leaf spot<br>Taphrina leaf blister                              |   |
| orchid<br>(Dendrobium)    | Botrytis blossom blight   |   |
| oxalis                    | rust  |   |
| pansy                     | anthracnose   |   |
| pears<br>(ornamental)     | Fabraea leaf spot<br>rust<br>scab   |   |
| peony                     | Botrytis blossom blight<br>Phytophthora blight                              | Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts. |
| peperomia                 | Cercospora leaf spot  |   |
| petunia                   | Botrytis blight   |   |
| philodendron              | Dactylaria leaf spot<br>Phytophthora leaf spot                              |   |
| phlox                     | leaf spot   |   |
| photinia                  | Entomosporium leaf spot   |   |
| pine, Australia           | Cyclaneusma needle cast   |   |

**Ornamentals (continued)**

| <b>Crop</b>            | <b>Diseases Controlled</b>                                 | <b>Remarks (Also Refer to Directions for Use – Restrictions)</b> |
|------------------------|--|--|
| pine, Scotch           | Cyclaneusma needle cast<br>gall rust                       |  |
| pittosporum            | Alternaria leaf spot                                       |  |
| pleomele               | Fusarium leaf spot   |  |
| poinsettia             | Sphaceloma scab  |  |
| poplar                 | rust   |  |
| primrose               | Botrytis blight  |  |
| protea                 | Botrytis blight  |  |
| quince<br>(ornamental) | Fabraea leaf spot<br>rust<br>scab                          |  |
| rhododendron           | Cercospora leaf spot<br>Discosia leaf spot<br>petal blight | Refer to azalea.   |
| rose                   | black spot<br>Cercospora leaf spot<br>rust                 |  |
| rosemary               | Rhizoctonia<br>aerial blight                               |  |
| schefflera             | Alternaria blight  |  |
| Scotts pine            | needle cast  |  |
| skunkbush,<br>sumac    | Cylindrosporium leaf<br>spot                               |  |
| snapdragon             | rust   |  |
| spathiphyllum          | Myrothecium leaf spot                                      |  |
| statice                | Cercosporium leaf spot                                     |  |
| strawflower            | rust   |  |
| syngonium              | Cephalosporium leaf<br>spot                                |  |
| thorn apple            | rust   |  |
| tulip                  | Botrytis blight (fire)                                     |  |
| venus, flytrap         | anthracnose  |  |
| viburnum               | downy mildew<br>Ramularia leaf spot                        |  |
| walnut                 | anthracnose  | Do not use nuts for food or feed.                                |
| zinnia                 | Alternaria leaf blight                                     |  |



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