FIFRA Section 24(c) Special Local Need Label
For Distribution and Use Only in the State of Oregon

Roper® DF Rainshield™
EPA Reg. No. 34704-1063
EPA SLN No. OR-130003

For Disease Control in Certain Small Seeded Vegetable Crops Grown for Seed

Expiration Date: This label is valid until December 31, 2024, or until otherwise amended, withdrawn, canceled, or suspended.

Active Ingredients
mancozeb: A coordination product of zinc ion and manganese ethylene bisdithiocarbamate... 75.0%
In which the ingredients are:
Manganese++ .............................................15.00%
Zinc+++ ..................................................1.87%
Ethylene bisdithiocarbamate ion (C₄H₆N₂S₄) ................58.13%

Other Ingredients ................................ 25.0%
Total .....................................................100.0%

Keep Out of Reach of Children
CAUTION

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, to areas where surface water is present, or to intertidal areas below the mean high water mark except as specified for the labeled use on cranberries. 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 this Special Local Need (SLN) label and the label affixed to the container for Roper® DF Rainshield™ fungicide before applying.
- This SLN label and the main container label for this product must be in the possession of the user at the time of pesticide application.
- Use of Roper DF Rainshield according to this SLN label is subject to all applicable use directions, precautions and limitations imposed by the label affixed to the product container.
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.

**General Information**

Roper DF Rainshield is a broad-spectrum protectant fungicide. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program. The addition of an agricultural surfactant will improve fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and improved fungicide retention during periods of wet weather.

- Carefully read, understand, and follow label use rates and restrictions.
- **For proper application, determine the number of acres to be treated, the recommended label use rate and the gallonage 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.**

**Mixing Procedures**

Slowly place into spray tank as it is being filled or thoroughly premix in a nurse tank for concentrate or aircraft sprayers. Add other co-applied fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after Roper DF fungicide has been placed into suspension.

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**

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

**Spray Adjuvants**

The addition of agricultural surfactants to Roper DF Rainshield fungicide sprays will improve initial spray deposits, fungicide redistribution and weatherability. The following spray adjuvant has been especially formulated to optimize the performance of foliar-applied agricultural chemicals:

- LI 700 is a non-ionic, low foaming penetrant that may be used to enhance the activity and effectiveness of agricultural chemicals by helping to provide more uniform coverage of spray solutions and aid in penetration, and improving deposition and retarding drift by producing a more uniform spray pattern.

Place Roper DF Rainshield fungicide into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on both product labels prior to spray preparation.

**Specific Use Directions for Small Seeded Vegetable Crops Grown for Seed**

Begin applications when disease first appears or is reported in the area. Apply Roper DF Rainshield fungicide at the rate of 2 lb. per acre in thorough coverage sprays. Repeat applications on a 7 to 10 day application schedule until the threat of disease is over.

**Application Methods**

**Ground:**

Thorough coverage foliar sprays generally result in optimum disease control. To achieve good coverage use proper spray pressure, gallonage per acre (10 – 100 gpa), 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 unless in totally enclosed vehicles.

**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.

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

**Flagging:** Swaths should be marked at the end of the field with permanent flags or by a flagman in a totally enclosed vehicle. Swaths should be measured accurately with a chain or other device except when rows can be accurately counted.

Roper DF Rainshield fungicide may be used on the following crops grown for seed for control of listed diseases:

<table>
<thead>
<tr>
<th>Seed Crop</th>
<th>Diseases Controlled</th>
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<tbody>
<tr>
<td><em>Allium</em> spp. (Leek, bunching and dry bulb onions)</td>
<td>Botrytis leaf blight (<em>Botrytis</em> spp.)&lt;br&gt;Downy mildew (<em>Peronospora destructor</em>)&lt;br&gt;Neck rot (<em>Botrytis</em> spp.)&lt;br&gt;Purple blotch (<em>Alternaria porri</em>)</td>
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<tr>
<td>Arugula</td>
<td>Alternaria leaf spot (<em>Alternaria</em> sp.)</td>
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<tr>
<td>Beet (garden and/or sugar beets)</td>
<td>Alternaria leaf spot (<em>Alternaria</em> sp.)&lt;br&gt;Cercospora leaf spot (<em>Cercospora beticola</em>)&lt;br&gt;Downy mildew (<em>Peronospora farinosa</em>)&lt;br&gt;Rust (<em>Uromyces betae</em>)</td>
</tr>
<tr>
<td>Carrot</td>
<td>Leaf blight (<em>Alternaria dauci</em>)&lt;br&gt;Leaf spot (<em>Cercospora carotae</em>)&lt;br&gt;Rust (<em>Uromyces lineolatus</em>)</td>
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<tr>
<td>Coriander</td>
<td>Leaf spot (<em>Alternaria</em> sp.)</td>
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<td>Crucifer (<em>Brassica</em> spp. and <em>Raphanus</em> spp.) crops grown for seed, except for canola: Including broccoli, broccoli raab, Brussels sprouts, cabbage, cauliflower, Chinese cabbage, Chinese mustard, collard, kale, kohlrabi, mustard, mustard spinach, radish (except daikon), rutabaga, turnip</td>
<td>Black spot (<em>Alternaria alternata</em> and <em>A. brassicola</em>)&lt;br&gt;Cercospora leaf spot (<em>Cercospora brassicicola</em>)&lt;br&gt;Downy mildew (<em>Peronospora parasitica</em>)</td>
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<tr>
<td>Dill</td>
<td>Alternaria leaf spot (<em>Alternaria</em> sp.)</td>
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<tr>
<td>Endive</td>
<td>Downy mildew (<em>Bremia lactucae</em>)&lt;br&gt;Leaf spot (<em>Cercospora cichoria</em>)</td>
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<tr>
<td>Lettuce</td>
<td>Anthracnose (<em>Microdochium panattonianum</em>)&lt;br&gt;Cercospora leaf spot (<em>Cercospora longissima</em>)&lt;br&gt;Downy mildew (<em>Bremia lactucae</em>)</td>
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<tr>
<td>Parsley</td>
<td>Alternaria leaf spot (<em>Alternaria</em> sp.)</td>
</tr>
<tr>
<td>Parsnip</td>
<td>Alternaria leaf spot (<em>Alternaria</em> sp.)</td>
</tr>
<tr>
<td>Spinach</td>
<td>Downy mildew (<em>Peronospora effusa</em> and <em>P. farinosa</em>)&lt;br&gt;Leaf spot (<em>Alternaria</em> sp.)&lt;br&gt;Leaf spot (<em>Cercospora beticola</em>)&lt;br&gt;Leaf spot (<em>Cladosporium variable</em>)&lt;br&gt;Leaf spot (<em>Stemphylium botryosum</em>)</td>
</tr>
<tr>
<td>Swiss Chard</td>
<td>Cercospora leaf spot (<em>Cercospora beticola</em>)&lt;br&gt;Rust (<em>Uromyces betae</em>)</td>
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</table>
Specific Use Restrictions
- For use only on crops grown for seed as listed on this SLN label in the state of Oregon.
- Do not apply more than 24 lb. Roper DF Rainshield (18 lb. active ingredient) per acre per crop.
- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.
- **Chemigation:** For use under this SLN label, do not apply Roper DF Rainshield through any type of irrigation system.

Special Crop Use Restrictions
The pesticide applicator, the producer of the crop, and the seed conditioner must be aware that use of this product according to this labeling is deemed a nonfeed/non-food use by the Oregon Department of Agriculture, and is regulated by Oregon Administrative Rule (OAR) 603-057-0535, Pesticide Use On Crops Grown For Seed. If the applicator of this pesticide is not the producer, the applicator must provide a copy of this labeling to the producer of the crop. Producers of this crop who use this product, or cause the product to be used on a field they operate, must provide a copy of this pesticide label to the seed conditioner.

This pesticide does not have an established pesticide residue tolerance for this crop. Consequently, no portion of this seed crop may be used or distributed for food or feed for 1 year (365 days) after the last application of this product. This restriction pertains to, but is not limited to, green chop, forage, hay, pellets, meal, whole seed, cracked seed, straw, roots, bulbs, foliage or seed screenings, and to the grazing of the crop field, stubble or regrowth. All seed screenings shall be disposed of in such a manner that the screenings cannot be distributed or used for food or feed purposes, as indicated in OAR 603-057-0535. Additional regulations concerning seed screenings are stated in OAR 603-057-0535.

Any seed from a field treated with this pesticide product shall bear specific and conspicuous container labeling, or if shipped in bulk, on the shipment invoice or bill of lading. The labeling shall contain the following statement:

"This seed was produced using one or more products for which the United States Environmental Protection Agency has not established pesticide residue tolerances. This seed, in whole, as sprouts, or in any form, may not be used for human consumption or animal feed. Failure to comply with this condition may violate requirements of the Federal Food and Drug Administration, the Oregon Department of Agriculture and other regulatory agencies."

Rainshield is a trademark of Dow AgroSciences LLC
Roper is a registered trademark of Loveland Products, Inc.

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24(c) Registrant:
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