



# FIFRA Section 24(c) Special Local Need Label

## Roper DF Rainshield®

EPA Reg. No. 34704-1063  
EPA 24(c) Special Local Need Registration SLN OR-130003

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

(For Distribution and Use Only in the State of Oregon)

**Expiration Date:** This label is valid until December 31, 2018, or until otherwise amended, withdrawn, canceled, or suspended.

#### ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This label must be in the possession of the user at the time of pesticide application.
- Read this SLN label and the label affixed to the container for Roper DF Rainshield™ fungicide before applying.
- Use of Roper DF Rainshield according to this SLN label is subject to all use directions, precautions and limitations imposed by the label affixed to the product container.

#### Active Ingredients

mancozeb: A coordination product of zinc ion and manganese ethylene bisdithiocarbamate .. 75.0%

In which the ingredients are:

Manganese <sup>++</sup> .....	15.00%
Zinc <sup>++</sup> .....	1.87%
Ethylene bisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> ) <sup>- -</sup> .....	58.13%

Inert Ingredients ..... 25.0%

Total..... 100.0%

Keep Out of Reach of Children

## CAUTION

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

May Cause Irritation Of Nose, Throat, Eyes And Skin

Do not breathe dust or spray mist

## Environmental Hazards

This pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. For terrestrial uses, 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 disposing of equipment washwaters or disposing of wastes.

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## Directions for Use

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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.

### General Information

Roper<sup>®</sup> DF Rainshield<sup>™</sup> 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 for Agricultural Applications

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.

### 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

Begin applications when disease first appears or is reported in the area. Apply 2 pounds Roper DF Rainshield fungicide 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 the following diseases:

Seed Crop	Diseases Controlled
<i>Allium</i> spp. (Leek, bunching and dry bulb onions)	Botrytis leaf blight ( <i>Botrytis</i> spp.) Downy mildew ( <i>Peronospora destructor</i> ) Neck rot ( <i>Botrytis</i> spp.) Purple blotch ( <i>Alternaria porri</i> )
Beet (garden and/or sugar beets)	<i>Alternaria</i> leaf spot ( <i>Alternaria</i> sp.) <i>Cercospora</i> leaf spot ( <i>Cercospora beticola</i> ) Downy mildew ( <i>Peronospora farinosa</i> ) Rust ( <i>Uromyces betae</i> )
Carrot	Leaf blight ( <i>Alternaria dauci</i> ) Leaf spot ( <i>Cercospora carotae</i> ) Rust ( <i>Uromyces lineolatus</i> )
Coriander	Leaf spot ( <i>Alternaria</i> spp.)
Crucifer ( <i>Brassica</i> and <i>Raphanus</i> ) crops grown for seed except for canola.	Black spot ( <i>Alternaria alternata</i> and <i>A. brassicola</i> ) <i>Cercospora</i> leaf spot ( <i>Cercospora brassicicola</i> ) Downy mildew ( <i>Peronospora parasitica</i> )
Dill	<i>Alternaria</i> leaf spot ( <i>Alternaria</i> sp.)
Endive	Downy mildew ( <i>Bremia lactucae</i> ) Leaf spot ( <i>Cercospora cichoria</i> )
Lettuce	Anthrachnose ( <i>Microdochium panattonianum</i> ) <i>Cercospora</i> leaf spot ( <i>Cercospora longissima</i> ) Downy mildew ( <i>Bremia lactucae</i> )
Parsley	<i>Alternaria</i> leaf spot ( <i>Alternaria</i> sp.)
Parsnip	<i>Alternaria</i> leaf spot ( <i>Alternaria</i> sp.)
Spinach	Downy mildew ( <i>Peronospora effusa</i> and <i>P. farinosa</i> ) Leaf spot ( <i>Alternaria</i> spp.) Leaf spot ( <i>Cercospora beticola</i> ) Leaf spot ( <i>Cladosporium variable</i> )

Seed Crop	Diseases Controlled
Swiss Chard	Cercospora leaf spot ( <i>Cercospora beticola</i> ) Rust ( <i>Uromyces betae</i> )

**Specific Use Restrictions**

- **Chemigation:** Do not apply Roper DF Rainshield through any type of irrigation system.
- For use only on crops grown for seed as listed on this label in the state of Oregon.

**Special Crop Use Restriction**

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."**

**24(c) Registrant:** Loveland Products, Inc. • PO Box 1286 • Greeley, CO 80632

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Accepted Date: \_\_\_\_\_