

# **LEGUME VEGETABLES (SUCCULENT OR DRIED) CROP GROUP 6 & FOLIAGE OF LEGUME VEGETABLES CROP GROUP 7 - DISEASE CONTROL AT 5.0 FL OZ PER 100 LB SEED**

## General Information

### PRODUCT INFORMATION

Warden RTA is a seed treatment fungicide that protects against damping-off and seed rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* spp., and early season *Phytophthora* root rot. Warden RTA also suppresses seed-borne *Sclerotinia* and *Phomopsis* spp. Warden RTA contains the active ingredient mefenoxam found in Apron XL that provides protection against *Pythium* and early season *Phytophthora* root rot. Warden RTA also contains the active ingredient fludioxonil found in Maxim 4FS that provides protection against the remaining diseases mentioned in this label.

### RESISTANCE MANAGEMENT

For resistance management, please note that Warden RTA contains both a Group 4/mefenoxam and Group 12/fludioxonil fungicide. Any fungal population may contain individuals naturally resistant to Warden RTA and other Group 4 or Group 12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of Warden RTA or other Group 4 or Group 12 fungicides within a growing season sequence with different groups that control the same pathogens.

- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide application. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Winfield Solutions, LLC at 1-855-494-6343. You can also contact your pesticide distributor or university extension specialist to report resistance.

Winfield Solutions, LLC encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

specified amount of Warden RTA into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. Warden RTA is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Winfield Solutions, LLC representative for directions before applying Warden RTA with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fl oz/100 lb seed. More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution. Clean out any unused product from the treater after treating or maintain constant agitation if the leftover slurry will be maintained overnight. Warden RTA already contains an EPA-approved dye or colorant that imparts an unnatural color to the seed as stated in 40 CFR 153.155(c). Allow seed to dry before bagging.

### SEED CONTAINER LABEL REQUIREMENTS

The Federal Seed Act requires that containers of treated seeds shall be labeled with the following statements:

- This seed has been treated with mefenoxam and fludioxonil fungicides.
- Do not use for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on containers of seeds treated with Warden RTA:

- Ground Water Advisory: Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- Excess treated seed may be used for ethanol production only if: (1) By-products are not used for livestock feed, and (2) No measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.

- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed by burying away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment washwaters.
- Dispose of seed packaging in accordance with local requirements.
- Do not use at a rate that will result in more than 0.004 lb fludioxonil per acre (2.0 grams ai/A) per year and 0.013 lb mefenoxam per acre (5.7 grams ai/A) per year as a seed treatment application.

#### CROP USE DIRECTIONS

When applied according to the WARDEN RTA RATE TABLE, Warden RTA provides protection against damping-off and seed borne rots due to Pythium, Phytophthora, Fusarium, Rhizoctonia species and early season Phytophthora root rot. Warden RTA also suppresses seed-borne Sclerotinia and Phomopsis species. Additional Apron XL, EPA Reg. No. 100-799, may be necessary for high levels of Phytophthora or Pythium. Refer to the table below to determine the appropriate use rate of Apron XL, if needed. Read and follow all label directions for Apron XL use.

#### Method

##### [Seed Treatment](#)

#### Restricted Entry Interval

48 hours

Exception: If the seed is treated with the product and the treated seed is soil-injected or soilincorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

#### Timings

[N.A.](#)