

# DECREE® 50 WDG FUNGICIDE

Group	<b>17</b>	Fungicide
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**50% Water Dispersible Granule for Use as a Spray for Control of *Botrytis* Diseases in Field Tomato Transplants Grown in Greenhouse, Greenhouse Cucumber, Greenhouse Lettuce, Greenhouse Tomatoes, Greenhouse Peppers, Greenhouse Eggplant, Greenhouse Onions for Transplant and Ornamentals**

**DO NOT use in residential areas. Residential areas are defined as sites where bystanders, including children, may be potentially exposed during or after spraying. This includes around homes, schools, parks, playgrounds, playing fields, public buildings or any other areas where the general public, including children, could be exposed.**

## COMMERCIAL – HORTICULTURAL

**CAUTION**



**POISON**

**KEEP OUT OF REACH OF CHILDREN**

**READ THE LABEL AND BOOKLET BEFORE USING**

**ACTIVE INGREDIENT:**

**Fenhexamid.....50%**

**Warning, contains the allergen sulfites**

**REGISTRATION NO. 26132**

**PEST CONTROL PRODUCTS ACT**

**NET CONTENTS: 500 g**

**UPL AgroSolutions Canada Inc.  
630 Freedom Business Center, Suite 402**

**King of Prussia, PA 19406**

**For Product Information: 1-800-438-6071**

FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

FIRST AID	
<b>If in eyes</b>	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 centre or doctor for treatment advice.
<b>If on skin or clothing</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
<b>If swallowed</b>	Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.
<b>If inhaled</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.	
FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300	

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. Do not inhale fumes. Avoid breathing vapors or spray mist. After use wash hands and other exposed skin. When using this product do not eat, drink or smoke. Remove and launder contaminated clothing separately from household laundry before reuse. Avoid spray drift. Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

For application using handheld airblast/mistblower, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.”

For all other application equipment and during mixing, loading, clean-up, and repair wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.

If this pest control product is to be used on a commodity that may be exported and you require

information regarding Maximum Residue Limits for an importing country, please contact UPL AgroSolutions Canada, Inc.

### ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS for USE.

Toxic to small wild mammals.

**STORAGE:** May be stored at ambient temperature. Keep in original container. This product should not be stored under extreme temperatures. To close package, make sure the package is folded to form an airtight seal and store under dry conditions. Insecticides and fungicides should be segregated from herbicides to prevent the possibility of cross-contamination. To prevent contamination, store this product away from food and feed.

**SPILL HANDLING:** Clean up spill immediately. Place product and any contaminated cleanup materials in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container.

### FOR 24-HOUR CHEMICAL EMERGENCY ASSISTANCE

Spills, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300

### DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of the unused, unwanted product contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and provincial regulatory agency in case of a spill and for clean up of spills.

### DIRECTIONS FOR USE

#### GENERAL INFORMATION

**DECREE® 50 WDG Fungicide** is a cyclohexanecarboxamide protectant fungicide used for the control of Gray mold, *Botrytis cinerea*, on field tomato transplants grown in greenhouse, greenhouse cucumber, greenhouse lettuce, greenhouse tomatoes, greenhouse peppers, greenhouse eggplant, ornamentals and for the control of botrytis leaf blight (*Botrytis squamosa*) on greenhouse onions for transplant. This product should be used in a program with other products to provide season-long protection. Apply as a spray with ground equipment using sufficient water to obtain thorough coverage of plants. Dense foliage or excessive growth will often prevent adequate coverage; adjust spray volumes accordingly. Do not replant food crops other than those for which the product is labeled within 30 days following the last application.

#### RESISTANCE MANAGEMENT

For resistance management, please note that **DECREE 50 WDG Fungicide** contains a Group 17 fungicide. Any fungal population may contain individuals naturally resistant to **DECREE 50 WDG Fungicide** and other Group 17 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of **DECREE 50 WDG Fungicide** or other Group 17

fungicides with different groups that control the same pathogens. Avoid application of more than 2 consecutive sprays of **DECREE 50 WDG Fungicide** or other Group 17 fungicides in a season.

- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and 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/bactericide applications.
- Monitor treated fungal populations for resistance development. Notify UPL AgroSolutions Canada, Inc. if reduced sensitivity of the pathogen to **DECREE 50 WDG Fungicide** is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact UPL AgroSolutions Canada, Inc. at 1-800-438-6071.

## **MIXING DIRECTIONS**

Begin with clean equipment. Prepare only the amount of solution needed to treat the determined area or the area that may be treated in a reasonable time. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Agitate to ensure thorough mixing while adding the remaining required water. Maintain agitation during mixing and application. **DO NOT** allow the spray mixture to stand without agitation. Apply with properly calibrated spray equipment. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use.

## **APPLICATION**

Prepare only the amount of spray solution needed to treat the area to be sprayed. Maintain agitation during mixing and application. Applications should be made immediately after the spray solution is prepared. If there is any delay in application, continue mix agitation. **DO NOT** allow the spray mixture to stand without agitation. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use. Do not apply if rainfall is expected within 6 hours after application. Do not use overhead irrigation within 6 hours after application.

**DO NOT** apply this product through any type of irrigation system.

Thorough coverage of all above ground plant parts is essential for control of infections caused by *Botrytis*. Proper calibration and operation of spray equipment is essential for successful spraying. Consult the spray equipment manufacturer's operators manual, spray nozzle catalogs, and/or your crop advisor for more information.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil or clay.

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

**Field sprayer application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**Airblast application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

**Avoid making more than two (2) consecutive applications of this product. After the second application, alternate with a non-Group 17 Fungicide for two consecutive applications before reapplying the active ingredient in this product. Consult your local Horticultural Advisor for the most appropriate alternative products.**

**Buffer zones:**

Spot treatments using hand-held equipment DO NOT require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:	
			Freshwater Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Field sprayer	Outdoor ornamentals		2	1
Air blast	Outdoor ornamentals	Early growth stage	20	1
		Late growth stage	10	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

## APPLICATION RATES

Carefully read and understand the following label for use information and restrictions.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:** The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than UPL AgroSolutions Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, UPL AgroSolutions Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### FIELD TOMATO TRANSPLANTS GROWN IN GREENHOUSE

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray mold) on field tomato transplants grown in greenhouse, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray. Make a second application 7 - 10 days later if conditions continue to favour disease development. Do not make more than 2 applications per crop cycle. Do not exceed a total 3.0 kg/ha per crop cycle. Applications can be made up to transplanting, but not less than sixty days prior to harvest (PHI = 60 days). DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

### GREENHOUSE CUCUMBER

For the control of *Botrytis cinerea* (Gray mold) on greenhouse cucumber, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray. Apply in a spray volume of approximately 500 L (small plants) to 1500L (large/mature plants) per hectare. Begin application when greenhouse conditions favour disease development. Repeat after 7 days if conditions continue to favour disease. Do not make more than 2 applications per crop cycle (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to 1 day prior to harvest (PHI = 1 day). The application rate should be based on 1.5 kg product per hectare applied in the appropriate volume of carrier to achieve thorough coverage of all plant surfaces. For example, if you apply 1000 litres of water per hectare, thoroughly mix 1.5 kg of product in 1000 litres of water and apply for coverage of all above-ground plant surfaces. Use care in mixing and application to avoid exceeding rates of 1.5 kg product per hectare regardless of the selected spray volume. DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

### GREENHOUSE LETTUCE

For the control of *Botrytis cinerea* (Gray mold) on greenhouse lettuce, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray in a recommended spray volume of 500 to 1500 L/ha. Begin application when greenhouse conditions favour disease development. Repeat after 7 days if conditions continue to favour disease. Do not make more than 2 applications per crop cycle (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to three days prior to harvest (PHI = 3 days). DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

### GREENHOUSE TOMATOES

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray Mold) on greenhouse tomatoes, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray in a recommended spray volume of 500-1500 L/ha. Make a second application 7-10 days later if conditions continue to favour disease. Do not make more than 2 applications per crop cycle. (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to one day prior to harvest (PHI= 1 day). DO NOT allow effluent

or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters. **TREATED GREENHOUSE TOMATOES CANNOT BE USED FOR PROCESSING.**

### **GREENHOUSE PEPPERS**

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray Mold) on greenhouse peppers, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray in a recommended spray volume of 500 to 1500 L/ha. Make a second application 7-10 days later if conditions continue to favour disease. Do not make more than 2 applications per crop cycle. (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to one day prior to harvest (PHI= 1 day). DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

### **GREENHOUSE EGGPLANT**

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray Mold) on greenhouse eggplant, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray. Repeat at 7-10 day intervals if conditions continue to favour disease. Do not make more than 3 applications per crop cycle. Applications can be made up to one day prior to harvest (PHI= 1 day). DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

For field tomato transplants grown in greenhouse, greenhouse cucumber, greenhouse lettuce, greenhouse tomatoes, greenhouse peppers, and greenhouse eggplants the application rate should be based on 1.5 kg product per hectare applied in the appropriate volume of carrier to achieve thorough coverage of all plant surfaces. For example, if you apply 1000 litres of water per hectare, thoroughly mix 1.5 kg of product in 1000 litres of water and apply for coverage of all above-ground plant surfaces. Use care in mixing and application to avoid exceeding rates of 1.5 kg product per hectare regardless of the selected spray volume.

### **GREENHOUSE ONIONS FOR TRANSPLANT**

For the control of botrytis leaf blight (*Botrytis squamosa*) on greenhouse onions for transplant, apply 1.12 kg product per hectare (0.56 kg ai/ha) as a foliar spray. Do not make more than 1 application per crop cycle. Applications can be made when conditions are favorable for disease development and up to one day prior to harvest of the transplants (PHI = 1 day). Use sufficient water to obtain thorough coverage. For example, if you apply 1000 litres of water per hectare, thoroughly mix 1.12 kg of product in 1000 litres of water and apply for coverage of all above-ground plant surfaces. Use care in mixing and application to avoid exceeding rates of 1.12 kg product per hectare regardless of the selected spray volume.

## **ORNAMENTALS - OUTDOOR-GROWN AND GREENHOUSE-GROWN**

(Such as African Violet, Geranium, Petunia, Poinsettia and Rose)

These directions are based upon the results of product testing programs. However, it is impossible to test this product with all species and cultivars. A small scale preliminary trial should be conducted to check the cultivar sensitivity before using this product on a large number of plants. For species not specifically listed on the label, the user assumes all crop injury risk from phytotoxicity or disease.

For control of *Botrytis cinerea* (Gray mold) on ornamentals, apply 1.12 kg product per hectare (0.56 kg ai/hectare). Begin applications when conditions favour disease development but prior to the establishment of disease. Applications should be made on a 7 to 14-day interval when new terminal growth is present using equipment capable of achieving thorough coverage. When conditions favour severe disease development, apply on a 7-day interval.

The application rate should be based on a 1.12 kg product per hectare applied in the appropriate volume of carrier to achieve thorough coverage of all plant surfaces. For example, if you apply 1000 litres of water per hectare, thoroughly mix 1.12 kg of product in 1000 litres of water and apply for coverage of all above-ground plant surfaces. Use care in mixing and application not to exceed rates of 1.12 kg product per hectare regardless of the selected spray volume.

For outdoor ornamentals not grown for cut flowers, DO NOT apply more than 6.8 kilograms product per hectare per year (3.4 kg ai/ha/year). DO NOT apply more than 6 times per year.

For outdoor ornamentals grown for cut flowers, DO NOT apply more than 4.48 kilograms product per hectare per year (2.24 kg ai/ha/year). DO NOT apply more than 4 times per year.

For greenhouse ornamentals not grown for cut flowers, DO NOT apply more than 6.8 kilograms product per hectare per crop (3.4 kg ai/ha/crop cycle). DO NOT apply more than 6 times per crop cycle.

For greenhouse ornamentals grown for cut-flowers, DO NOT apply more than 1.12 kg product per hectare per crop (560 g ai/ha/crop cycle). DO NOT make more than 1 application per crop cycle.

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Fenhexamid was invented and is produced by Bayer AG, Germany.

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