

2018-2474
2019-01-28

GROUP	12	FUNGICIDE
-------	----	-----------

[Container Label]

Fludioxonil 50 WDG

Turf FUNGICIDE

Water Dispersible Granule

COMMERCIAL

For use on golf courses and sod farms.

For control of brown patch and snow moulds in

turfgrass. ACTIVE INGREDIENT: Fludioxonil

50%

REGISTRATION NO.: 3272 8 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

For emergency medical help call PROSAR at 1.877.250.9291 (24 hours a day)
For spill, leak or fire call INFOTRAC at 1.800.535.5053 (24 hours a day)

NET CONTENTS: 1- 50 kg

ADAMA Agricultural Solutions Canada Ltd.
300- 191 Lombard Avenue
Winnipeg, Manitoba
R3B 0X1
1-855-264-6262

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Hazards to Humans and Domestic Animals.

Avoid contact with eyes, skin, or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Applicators and other handlers of the fungicide should wear chemical-resistant gloves made from any waterproof material, goggles, long-sleeve shirt, long pants, and shoes with socks, when mixing, loading and applying the product, and during clean-up and repair activities.

Apply only when the potential for drift to areas of human habitation or areas of 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.

FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED, 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.

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 centre 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 centre or doctor for treatment advice.

IF INHALED, 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Treat symptomatically if ingested or in contact with eyes or skin.

DO NOT store near feed or foodstuffs. Store in a cool place. Protect from excessive heat. Apply only to areas specified on label.

DO NOT enter or allow entry into the treated area, without protective clothing, until Fludioxonil 50 WDG is dry.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth of the water table is shallow.

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 when heavy rain is forecast.

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

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present. DO NOT allow fludioxonil contaminated waste water from the processing plants to enter lakes, streams, ponds or other waters.

STORAGE

To prevent contamination store this product away from food or feed.

DISPOSAL OF UNUSED, UNWANTED PRODUCT

For information on disposal of unused, unwanted product, or in the case of a spill or spill clean-up, contact the manufacturer or provincial regulatory agency.

CONTAINER DISPOSAL:

For recyclable containers for commercial use:

DO NOT reuse this container for any other purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank or dispose of the rinsings in accordance with provincial requirements.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For refillable containers commercial use:

DO NOT reuse this container for any other purpose. For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product.

For returnable containers commercial use:

DO NOT reuse this container for any other purpose. This empty container may be returned to the

2018-2474
2019-01-28

point of purchase (distributor/dealer) for disposal.

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.

2018-2474
2019-01-28

GROUP	12	FUNGICIDE
-------	----	-----------

[Pamphlet]

Fludioxonil 50 WDG

Turf FUNGICIDE

Water Dispersible Granule

COMMERCIAL

For use on golf courses and sod farms.

For control of brown patch and snow moulds in

turfgrass. ACTIVE INGREDIENT: Fludioxonil

50%

REGISTRATION NO.: 3272 8 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

For emergency medical help call PROSAR at 1.877.250.9291 (24 hours a day)
For spill, leak or fire call INFOTRAC at 1.800.535.5053 (24 hours a day)

NET CONTENTS: 1- 50 kg

ADAMA Agricultural Solutions Canada Ltd.
300- 191 Lombard Avenue
Winnipeg, Manitoba
R3B 0X1
1-855-264-6262

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Hazards to Humans and Domestic Animals.

Avoid contact with eyes, skin, or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Applicators and other handlers of the fungicide should wear chemical-resistant gloves made from any waterproof material, goggles, long-sleeve shirt, long pants, and shoes with socks, when mixing, loading and applying the product, and during clean-up and repair activities.

Apply only when the potential for drift to areas of human habitation or areas of 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.

FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED, 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.

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 centre 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 centre or doctor for treatment advice.

IF INHALED, 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Treat symptomatically if ingested or in contact with eyes or skin.

DO NOT store near feed or foodstuffs. Store in a cool place. Protect from excessive heat. Apply only to areas specified on label.

DO NOT enter or allow entry into the treated area, without protective clothing, until Fludioxonil

50 WDG is dry.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE**.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth of the water table is shallow.

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 when heavy rain is forecast.

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

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present. **DO NOT** allow fludioxonil contaminated waste water from the processing plants to enter lakes, streams, ponds or other waters.

STORAGE

To prevent contamination store this product away from food or feed.

DISPOSAL OF UNUSED, UNWANTED PRODUCT

For information on disposal of unused, unwanted product, or in the case of a spill or spill clean-up, contact the manufacturer or provincial regulatory agency.

CONTAINER DISPOSAL:

For recyclable containers for commercial use:

DO NOT reuse this container for any other purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank or dispose of the rinsings in accordance with provincial requirements.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For refillable containers commercial use:

DO NOT reuse this container for any other purpose. For disposal, this container may be returned to

the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product.

For returnable containers commercial use:

DO NOT reuse this container for any other purpose. This empty container may be returned to the point of purchase (distributor/dealer) for disposal.

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.

GENERAL PRECAUTIONS

Fludioxonil 50 WDG can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control.

DIRECTIONS FOR USE

Fludioxonil 50 WDG may be used with most types of spray equipment commonly used for making ground applications. Proper adjustments and calibration of spraying equipment to give good coverage of turf grass is essential for good disease control. Use Fludioxonil 50 WDG against labelled foliar diseases. For use on all turf types to include golf course tees, greens, aprons, fairways and roughs.

DO NOT apply through any type of ultra low volume (ULV) spray system.

DO NOT mow or water after treatment until spray deposited on turfgrass is thoroughly dry.

NOTES:

Use Fludioxonil 50 WDG preventatively. It is not phytotoxic to turfgrass when applied as labelled.

Mixing Procedures:

Prepare no more mixture than is needed for the immediate operation. Thoroughly clean the spray equipment before using Fludioxonil 50 WDG. Vigorous agitation is necessary to maintain uniformity of the spray mixture. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

Fludioxonil 50 WDG Alone: Add 1/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the required quantity of Fludioxonil 50 WDG into the spray tank all at once.

Continue agitation while adding the remainder of the water. Begin application of the spray solution after the product has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Note: Avoid use with oils or adjuvants as damage to turf may result.

Turf Types: All golf course related cool-season grasses, including bentgrasses, bluegrasses, fescue grasses, ryegrasses and their mixtures.

Controlling Turf Disease: Fludioxonil 50 WDG is a protectant fungicide for control of the following turfgrass diseases: brown patch and pink and gray snow moulds when used in an integrated, preventive disease management program.

Applications are warranted when conditions favour development of disease. Continue applications for as long as these conditions persist and within the limitations indicated below

1. USE Fludioxonil 50 WDG AS A FOLIAR SPRAY IN AN INTEGRATED, PREVENTIVE DISEASE MANAGEMENT PROGRAM.
2. Apply a maximum of 45 g/100m² per season for brown patch control and 15 g/100m² for control of snow moulds.
3. Apply in sufficient water to ensure thorough coverage.
4. Apply after mowing.
5. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
6. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
7. For optimum turfgrass quality and disease control, use Fludioxonil 50 WDG in conjunction with turfgrass management practices that promote good plant health and optimum disease control.
8. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease is essential to determine the best control measures.

DISEASES:

Gray Snow Mould (*Typhula incarnata*)

Pink Snow Mould (*Microdochium nivale*)

RATE (100 m²) 15 g (1.5 kg/ha)

INSTRUCTIONS: Apply Fludioxonil 50 WDG once in middle October to late November before snow cover. Do not apply on top of snow or when the temperature is below 0°C. Do not apply more than 1 application per season.

Brown Patch (*Rhizoctonia solani*)

RATE (100 m²) 6-7.5 g (0.6-0.75 kg/ha) at 7 day intervals

RATE (100 m²) 15 g (1.5 kg/ha) at 14 day intervals

INSTRUCTIONS:

Begin applications when conditions are favourable for pathogen infection and prior to disease symptom expression. Do not make more than two consecutive applications of Fludioxonil 50 WDG or other Group 12 fungicides before alternating to a fungicide with a different mode of action.

Fludioxonil 50 WDG Tank Mixtures

Read all labels and follow the most stringent precautions of tank mix products.

Fludioxonil 50 WDG is usually compatible with many commonly used fungicides, insecticides, and foliar nutrient products. However the physical compatibility of Fludioxonil 50 WDG with tank mix partners should be tested before use if unknown. To determine the physical compatibility of Fludioxonil 50 WDG with other products, use a jar test, as described below.

Jar Compatibility Test: Using a litre jar, add the proportionate amounts of the products to 1 L of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes.

If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by ADAMA Agricultural Solutions Canada Ltd.

This product is not to be used around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other unlicensed users. Do not apply this product in a way that will contact workers or other persons or pets either directly or through drift. Only protected handlers may be in the area during application.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

Buffer zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot-treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitats of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitats
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer ¹	Turf, golf courses and sod farms	4	1	1	1	1

¹ For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zones can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

For tank mixes, consult the labels of the tank mix partners and observe the largest (most restrictive) 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 spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.”

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Fludioxonil 50 WDG contains a Group 12 Fungicide. Any fungal population may contain individuals naturally resistant to Fludioxonil 50 WDG Fungicide and other 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. 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 Fludioxonil 50 WDG or other Group 12 fungicides with different groups that control the same pathogens. Do not exceed the stated maximum number of

applications and do not make more than two applications of Fludioxonil 50 WDG or other Group 12 fungicides before alternating to a fungicide with a different mode of action.

Use tank mixtures with fungicides from a different group that is effective on the target pathogen 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 applications.

Monitor treated fungal populations for sign of resistance development. Notify ADAMA Agricultural Solutions Canada Ltd. if reduced sensitivity of the pathogen to Fludioxonil 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 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 ADAMA Agricultural Solutions Canada Ltd. company representatives at 1-855-264-6262 or at www.adama.com/canada.