

2008-2598
20-MAR-2009

Group	11	Fungicide
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COMPASS™ 50 WG

**COMMERCIAL
FUNGICIDE
Wettable Granules**

For control of certain foliar, stem, and root diseases of turfgrass and ornamentals

GUARANTEE:	
Trifloxystrobin:	50%

READ THE LABEL AND BOOKLET BEFORE USING

REGISTRATION NO.: **27527**
PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN

CAUTION: EYE IRRITANT, POTENTIAL SKIN SENSITIZER

Net Contents: 454g

Bayer CropScience Inc.*
Suite 100, 3131 114th Avenue S.E.
Calgary, Alberta T2Z 3X2
Telephone: 1-888-283-6847
*Bayer Environmental Science
A Business Group of Bayer CropScience

PRODUCT INFORMATION/EMERGENCIES: 1-800-334-7577 (24 Hours A Day)

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. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID:

In case of poisoning, IMMEDIATELY call a physician or poison control centre. Take the 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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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:

This product contains a petroleum distillate.

There is no specific antidote for this product. If ingested treat symptomatically. An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.

PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN.** May irritate eyes. Harmful if absorbed through skin. Potential skin sensitizer. Avoid contact with eyes, skin, or clothing. Wash exposed areas of skin thoroughly with soap and water after handling.
- **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Wear long-sleeved shirt, long pants and chemical resistant gloves during mixing, loading, application, clean-up and repair.
- Remove clothing immediately if pesticide gets inside. Then wash exposed areas of skin thoroughly and put on clean clothing.
- **DO NOT** use, pour, spill, or store product near heat or open flame.
- **DO NOT** apply this product through any type of irrigation system.

- **DO NOT** apply COMPASS 50 WG in combination with organosilicate surfactants or crop injury may occur.
- **DO NOT** use COMPASS 50 WG for disease control in vegetables grown in greenhouses for crop production or in the production of vegetable transplants for outdoor use.

DO NOT APPLY BY AIR

ENVIRONMENTAL HAZARDS:

Observe buffer zones specified under Directions for Use.

Toxic to fish and other aquatic organisms. **DO NOT** apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats. **DO NOT** contaminate water by cleaning of equipment or disposal of wastes. Toxic to wild mammals

HARMFUL TO BENEFICIAL PREDATORY OR PARASITIC ARTHROPODS. Minimize spray drift (see Application Instructions) to reduce effects on beneficial arthropods in habitats adjacent to the application site such as hedgerow and woodland.

DO NOT apply to areas where runoff is likely to occur. Runoff from treated areas into aquatic habitats may be hazardous to aquatic organisms. Site characteristics that may lead to runoff following heavy rainfall include, but are not limited to: a moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter). If rainfall is imminent, delay spraying.

Residues of this product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

CONTAINER DECONTAMINATION AND DISPOSAL:

DO NOT reuse this container for any 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.
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.

PRODUCT DECONTAMINATION AND DISPOSAL:

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

STORAGE:

Store in a cool, dry, place away from food, drinks, and animal feeding stuffs. Keep in the original container tightly closed.

**In case of emergency involving a major spill, fire or poisoning
Call 1-800-334-7577**

TM COMPASS is a trademark of Bayer.

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- **DO NOT** use, pour, spill, or store product near heat or open flame.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply COMPASS 50 WG in combination with organosilicate surfactants or crop injury may occur.

- **DO NOT** use COMPASS 50 WG for disease control in vegetables grown in greenhouses for crop production or in the production of vegetable transplants for outdoor use.

DO NOT APPLY BY AIR

ENVIRONMENTAL HAZARDS:

Observe buffer zones specified under Directions for Use.

Toxic to fish and other aquatic organisms. **DO NOT** apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats. **DO NOT** contaminate water by cleaning of equipment or disposal of wastes.

Toxic to wild mammals.

HARMFUL TO BENEFICIAL PREDATORY OR PARASITIC ARTHROPODS. Minimize spray drift (see Application Instructions) to reduce effects on beneficial arthropods in habitat adjacent to the application site such as hedgerow and woodland.

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STORAGE:

Store in a cool, dry, place away from food, drinks, and animal feeding stuffs. Keep in the original container tightly closed.

**In case of emergency involving a major spill, fire or poisoning
Call 24 hours a day 1-800-334-7577**

GENERAL INFORMATION:

COMPASS 50 WG is a fungicide with primarily preventative activity for use on turfgrass and ornamentals. COMPASS 50 WG penetrates the plant and provides translaminar activity via a high affinity for the waxy layer of the plant surface, localized vapor movement and re-deposition on the plant.

**DIRECTIONS FOR USE:
Application instructions**

DO NOT apply during periods of dead calm or when winds are gusty. **DO NOT** overspray non-target terrestrial or aquatic habitats. **DO NOT** contaminate aquatic habitats when cleaning and rinsing spray equipment or containers.

Airblast application: **DO NOT** direct spray above plants to be treated and turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/hr at the application site as measured outside of the treatment area on the upwind side.

Buffer zones

The buffer zones specified in the table below are required between the downwind point of direct application and the closest edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands, and shrublands), sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine / marine habitats. Self-contained bodies of water within the golf course property **DO NOT** require buffer zones (e.g., ponds with no inflow or outflow of water).

Method of application	Buffer zone (metres) required for the protection of:		
	Terrestrial habitat	Freshwater habitat	Estuarine / marine habitat
Field sprayer (without the use of shrouds and cones)	0	18	14
Field sprayer (with the use of shrouds)	0	6	5
Field sprayer (with the use of cones)	0	13	10
Airblast (early season)	2	21	17
Airblast (late season)	1	12	8

MIXING PROCEDURES:

Prepare no more spray mixture than is required for the immediate operation. Thoroughly clean spray equipment before using this product. Agitation is necessary for proper dispersal of the product. Maintain 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.

COMPASS 50 WG Alone:

- Add 1/2 of the required amount of water to the mix tank.
- With the agitator running, add the COMPASS 50 WG to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the solution after COMPASS 50 WG has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been applied.

COMPASS 50 WG Tank-mixed with Rovral Green GT:

- Add 1/2 of the required amount of water to the mix tank.
- With the agitator running, add the COMPASS 50 WG to the tank first.
- Once COMPASS 50 WG Fungicide is fully dispersed add the correct amount of Rovral Green GT.
- Continue agitation while adding the remainder of the water.
- Begin application of the solution after COMPASS 50 WG and Rovral Green GT have completely dispersed into the spray solution.
- Maintain agitation until all of the mixture has been applied.

Resistance Management Recommendations: COMPASS 50 WG belongs to the strobilurin class of chemistry which exhibits no known cross-resistance to other chemical classes including: sterol inhibitors; dicarboximides; benzimidazoles; anilinopyrimidines; or phenylamides. Trifloxystrobin (the active ingredient in COMPASS 50 WG) does exhibit cross-resistance to other strobilurin fungicides such as azoxystrobin and kresoxim-methyl. Rovral Green GT belongs to the dicarboximide chemical class which poses no cross resistance to COMPASS 50 WG and therefore makes a very suitable tank-mix partner when controlling the snow mould disease complex.

For resistance management, please note that COMPASS 50 WG contains a Group 11 fungicide and Rovral Green GT contains a Group 2 fungicide. Any fungal population may contain individuals naturally resistant to COMPASS 50 WG and other Group 11 fungicides or Rovral Green GT and other group 2 fungicides. The tank-mix of these fungicides offers a sound resistance management program as COMPASS 50 WG will eliminate any resistant isolates to Rovral Green GT and vice a versa.

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 are 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 COMPASS 50 WG or other Group 11 fungicides with different groups that control the same pathogens.
- Avoid application of consecutive sprays of COMPASS 50 WG or other fungicides in the same group in a season.

- On turf, **DO NOT** apply more than one (1) application for gray leaf spot, or two (2) applications for other diseases, of COMPASS 50 WG before alternating to a labelled fungicide with a different mode of action for at least one application.
- On ornamentals, **DO NOT** apply more than one (1) application of COMPASS 50 WG before alternating to one or more applications of a labelled fungicide with a different mode of action.
- **DO NOT** exceed the total number of applications of COMPASS 50 WG per season as indicated.
 - For turfgrass, **DO NOT** apply more than 2.4 kg of COMPASS 50 WG per hectare per year.
 - For ornamentals, **DO NOT** make more than 4 applications per crop cycle or season.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- 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 turf or crop advisors for any additional pesticide resistance management or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Bayer CropScience Inc. at 1-888-283-6847 or via the internet at www.bayercropscience.ca.

TURFGRASS DISEASE CONTROL

COMPASS 50 WG is a primarily preventive fungicide that may be applied to turf sites including golf courses, institutional, commercial and residential lawns, sod farms, sports fields, parks, municipal grounds and cemeteries.

COMPASS 50 WG is a broad spectrum fungicide for the control of brown patch (*Rhizoctonia solani*), fusarium patch (*Microdochium nivale*), leaf spot (*Bipolaris* spp., *Drechslera* spp.), gray leaf spot (*Pyricularia grisea*) and foliar and basal rot *Anthracnose* (*Colletotrichum graminicola*). COMPASS 50 WG tank-mixed with Rovral Green GT will control pink snow mould (*Microdochium nivale*) and grey snow moulds (*Typhula* SPP.).

1. STROBILURIN FUNGICIDES SUCH AS COMPASS 50 WG ARE BEST USED IN A PREVENTIVE DISEASE CONTROL PROGRAM. CURATIVE APPLICATIONS CAN BE MADE FOR CERTAIN DISEASES.
2. It is recommended to apply in 4.1-8.1 L of water per 100 m² to ensure thorough coverage. For soil-borne diseases, use sufficient water to reach the crown and upper root zone.
3. Apply after mowing OR allow sprayed area to completely dry before mowing.
4. For control of both foliar and soil-borne diseases, allow sprayed area to completely dry before irrigation.
5. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
6. For optimum turf quality and disease control, use COMPASS 50 WG in conjunction with turf management practices that promote good health and optimum disease control.
7. 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 organism is essential to determine the best control measures.

COMPASS 50 WG CAN BE APPLIED TO ALL MAJOR TURFGRASS SPECIES. RATES ARE DEPENDENT ON THE ORGANISM AND THE DISEASE IT CAUSES UNDER CONDITIONS FAVOURABLE FOR DISEASE DEVELOPMENT.

TURFGRASS - SPRAY SCHEDULE			
Disease	Rate of Product (g/100 m²)	Application Interval (Days)	Instructions
Fusarium Patch (Microdochium Patch)	3.8	14	Apply in early spring and fall when conditions are favourable for disease development and/or when disease is present after snow melt. For curative applications, apply 3.8 g/100 m ² of COMPASS 50 WG on a 14-day interval, 2-3 times. Do not apply more than 2 sequential applications.
Brown Patch	4.6	21	Apply when conditions are favorable for disease development.
	6.1	14	Apply 4.6 g/100 m ² at 21 day interval under low disease pressure and 6.1 g/100 m ² at 14 day interval under high disease pressure or for curative applications.
Leaf Spot	3.1	14-21	Apply when conditions are favorable for disease development. Apply 3.1 g/100m ² at 14-21 day intervals Use the short interval under high disease pressure.
Gray Leaf Spot	3.1-6.1	14	Apply when conditions are favorable for disease development or when disease first appears.
Basal rot Anthracnose	4.6	14-21	Apply preventive applications in spring, summer or fall when conditions are favourable for disease development. Rotate with different mode of action fungicides registered for basal anthracnose control. Use shorter spray interval under high disease pressure.
Foliar Anthracnose	3.8	14	Apply preventative applications when conditions are favourable for disease development. Rotate with different mode of action fungicides registered for foliar anthracnose control.

TURFGRASS - SPRAY SCHEDULE

Disease	Rate of Product (g/100 m ²)	Application Interval (Days)	Instructions
Control of Pink Snow Mould (<i>Microdochium nivale</i>) & Grey snow moulds (<i>Typhula incarnata</i> and <i>ishikariensis</i>)	6.1 g of Compass 50 WG tankmixed with 271ml to 354 ml of Rovral Green GT	One application applied just before permanent snow cover	<p>Apply preventative tank-mix application in a minimum of 500 L spray solution (610 – 700 L/ha recommended) in late fall before permanent snow cover or tarping.</p> <p>A lower rate of Rovral Green GT (minimum 271 ml/100m²) mixed with 6.1 g/100m² should be used in regions of Canada that do not experience high snow mould disease pressure, whereas, a higher rate of Rovral Green GT (maximum of 354 ml/100m²) should be used with 6.1 g/100m² of Compass 50 WG Fungicide in regions that typically show high snow mould disease pressure.</p> <p>If turfgrass area has a history of heavy <i>Microdochium</i> patch and/or pink snow mould disease pressure, an early and mid fall fungicide spray program should be implemented prior to applying the final pink snow mould control tankmix. If turfgrass area has a history of heavy grey snow mould pressure and/or a heavy or long snow cover, a mid to late fall season application of a DMI product or other registered grey snow mould fungicide product should also be applied as part of an overall longer snow mould season control strategy.</p>
Suppression of Pink Snow Mould (<i>Microdochium nivale</i>) & Grey snow moulds (<i>Typhula incarnata</i> and <i>T. ishkariensis</i>)	3.8 g Compass 50 WG tankmixed with 127 ml of Rovral Green GT	One application applied just before permanent snow cover	<p>Apply preventative tank-mix application to fairways and other golf course turfgrass areas where suppression of snow moulds is acceptable. Use a minimum of 500 L spray solution (610 – 800 L/ha recommended) in late fall before permanent snow cover. Not recommended for greens and tees.</p>

Notes: (1) **DO NOT** apply more than 1 COMPASS 50 WG fungicide application for gray leaf spot control (2) **DO NOT** apply more than 2 sequential applications of COMPASS 50 WG for all other diseases. (3) Alternate with a fungicide having a different mode of action, where available. (4) For turfgrass, **DO NOT** apply more than 2.4 kg of COMPASS 50 WG per hectare per year.

ORNAMENTAL DISEASE CONTROL

Foliar Diseases: COMPASS 50 WG will control foliar diseases of outdoor ornamental trees grown in field nursery plantings, residential and commercial landscapes when applied as a foliar spray. Apply COMPASS 50 WG at specified rates to the point of drip beginning when conditions are favorable for disease development and repeat at 7 to 14-day intervals until the threat of disease is over.

Root rot (damping off) of New Seedlings: COMPASS 50 WG will control damping off of new seedlings grown in interiorscapes, field nursery plantings, residential and commercial landscapes, greenhouses, lath and shadehouses, containers, and other enclosed structures. Controls *Rhizoctonia solani* when applied as a drench at seeding.

ORNAMENTALS - SPRAY SCHEDULE

Disease	Plants	Rate of Product (g/100 L)	Application Interval (Days)	Instructions
Powdery Mildew* (<i>Erysiphe</i> spp., <i>Microsphaera</i> spp., <i>Oidium</i> spp., <i>Podosphaera</i> spp., <i>Sphaerotheca</i> spp.)	Apple (non-bearing), Cherry (non-bearing), Crabapple (non-bearing) Nectarine (non-bearing) Plum (non-bearing)	14-21 (140 -210 g in 1000 L water per ha)	7-14	Apply COMPASS 50 WG as a foliar spray to the point of drip before disease is detected or when conditions are favorable for disease development. Continue at 7 to 14-day intervals until the threat of disease is over. Under heavy pressure, use the highest rate and the shortest interval. Under light disease pressure, the application interval may be extended. DO NOT USE INDOORS. * For control of leaf diseases in non-bearing fruit trees, apply 140-210 g in 1000 L water per ha.
Scab (<i>Venturia inaequalis</i>)	Apple (non-bearing) Hawthorn	14-17.5 (140 - 175 g in 1000 L water per ha)		

ORNAMENTALS - SPRAY SCHEDULE

Disease	Plants	Rate of Product (g/100 L)	Application Interval (Days)	Instructions
Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)	Aloe Vera, Alyssum Azalea, Aptenia, Bamboo, Begonia, Blue Daze (Evolvulus glomeratus), Brachycome, Caladium Cast Iron Plant (Aspidistra elatior), Catnip, Celosia, Chrysanthemum Coleus, Coontie Palm (Zamia pumila), Cosmos, Daisy, Dianthus, Day Lily, Delphinium, Dusty Miller, Dwarf Ivy Hawthorn (Indian) Heather (Mexican) Hen and Chickens, (flowering) Hosta, Hypoestes, Impatiens, Jasmine Iris (African/Siberian) Juniperus tortulosm Lantana, Ligustrum Lilac, Liriope, Marigold Moonflower, Nandina, Pansy, Peach (non-bearing) Petunia, Phlox, Pittosporum Poinsettia, Rose, Verbena Rabbit's Foot Fern	3.8	seeding	Apply as a drench to wet the upper 1/2 of the growing media at the time of seeding. COMPASS 50 WG does not control damping off caused by <i>Pythium</i> and <i>Phytophthora</i> spp.

Notes:

- (1) COMPASS 50 WG may cause injury to Petunia, Violet, and New Guinea Impatiens.
- (2) Use of COMPASS 50 WG on Poinsettia after bract formation may cause injury to bracts.
- (3) It is not possible to test all cultivars of ornamentals. If the response of a variety is not known, COMPASS 50 WG should be tested on a small lot of plants before using for commercial scale production.
- (4) **DO NOT** apply COMPASS 50 WG to fruit trees that will bear harvestable fruit within 12 months of the last application.
- (5) **DO NOT** use COMPASS 50 WG for disease control in vegetables grown in greenhouses for crop production or in the production of vegetable transplants for outdoor use.
- (6) Minimum spray volume of 470 L/ha is recommended.
- (7) Minimize spray drift (see Application Instructions). Avoid spray overlap.
- (8) On ornamentals, **DO NOT** apply more than one (1) application of COMPASS 50 WG before alternating to one or more applications of a registered fungicide with a different mode of action. **DO NOT** make more than four (4) applications of COMPASS 50 WG per crop cycle or season.

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