

Compass™ 50WG

FUNGICIDE



Bayer Environmental Science

Registrant: Bayer CropScience Inc.*
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GROUP

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FUNGICIDE

FOR CONTROL OF CERTAIN FOLIAR, STEM, AND ROOT DISEASES OF TURFGRASS AND ORNAMENTALS

Guarantee: Trifloxystrobin 50%

PCPA Registration No.: 27527

Commercial: Fungicide

Net Contents: 454g

Date of issue: 29.01.04

WARNING: EYE IRRITANT, POTENTIAL SKIN SENSITIZER
READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PRODUCT INFORMATION/EMERGENCIES: 1-888-283-6847

Notice to User:

This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

Notice to Buyer:

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

First Aid:

In case of poisoning, IMMEDIATELY call a physician or poison control centre. Take container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, if victim is fully conscious, **IMMEDIATELY** give large quantities of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

If in eyes, IMMEDIATELY rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. **DO NOT** apply any medication agents except on the advice of a physician.

If on skin, wash with plenty of soap and water, including hair and under fingernails. **DO NOT** apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

If inhaled, move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Toxicological Information:

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 50WG Fungicide in combination with organosilicate surfactants or crop injury may occur.
- **DO NOT** use COMPASS 50WG Fungicide 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 CANUTEC 24-hours
Collect: 0-613-996-6666

General Information:

COMPASS 50WG Fungicide is a fungicide with primarily preventative activity for use on turfgrass and ornamentals. COMPASS 50WG Fungicide 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 50WG Fungicide Alone:

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

Resistance Management: COMPASS 50WG Fungicide 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 50WG Fungicide) does exhibit cross-resistance to other strobilurin fungicides such as azoxystrobin and kresoxim-methyl.

For resistance management, please note that COMPASS 50WG Fungicide contains a Group 11 fungicide. Any fungal population may contain individuals naturally resistant to COMPASS 50WG Fungicide and other Group 11 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same locations. 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 50WG Fungicide or other Group 11 fungicides with different groups that control the same pathogens.
- Avoid application of consecutive sprays of COMPASS 50WG Fungicide 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 50WG Fungicide 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 50WG Fungicide 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 50WG Fungicide per season as indicated.
- For turfgrass, do not apply more than 2.4 kg of COMPASS 50WG Fungicide 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 cover crop and considers cultural, biological and other chemical control practices.
- 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 pathogens.

- For further information or to report suspected resistance, contact a Bayer CropScience representative at 1-888-283-6847 or at bayercropscience.com.

Turfgrass Disease Control

COMPASS 50WG Fungicide 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 50WG Fungicide is a broad spectrum fungicide for the control of brown patch (*Rhizoctonia solani*), leaf spot (*Bipolaris* spp., *Drechslera* spp.), gray leaf spot (*Pyricularia grisea*).

1. STROBILURIN FUNGICIDES SUCH AS COMPASS 50WG 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 50WG Fungicide 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 50WG FUNGICIDE 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 m ²)	Application Interval (Days)	Instructions
Brown Patch	4.6	21	Apply when conditions are favorable for disease development. 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.
	6.1	14	
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.

Notes: (1) **DO NOT** apply more than 1 COMPASS 50WG fungicide application for gray leaf spot control. (2) **DO NOT** apply more than 2 sequential applications of COMPASS 50WG fungicide 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 50WG Fungicide per hectare per year.

Ornamental Disease Control

Foliar Diseases: COMPASS 50WG Fungicide 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 50WG Fungicide 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 50WG Fungicide 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 (Erysiphe spp., Microsphaera spp., Oidium spp., Podosphaera spp., Sphaerotheca spp.)	Apple (non-bearing)*, Cherry (non-bearing)*, Crabapple (non-bearing)*, Nectarine (non-bearing)*, Plum (non-bearing)*	14-21	7-14	Apply COMPASS 50WG 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 APPLY INDOORS *For control of leaf diseases in nonbearing fruit trees, apply 140-210g in 1000L water per ha.
Scab (Venturia inaequalis)	Apple (non-bearing) Hawthorn	14 - 17.5	7-14	
Rhizoctonia Root Rot (Rhizoctonia solani)	Aloe Vera, Alyssum Azalea, Aptenia, Bamboo, Begonia, Blue Daze Brachycome, Caladium Cast Iron Plant, Catnip, Celosia, Chrysanthemum Coleus, Coontie Palm 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 50WG does not control damping off caused by Pythium and Phytophthora spp.

Notes:

- (1) COMPASS 50WG Fungicide may cause injury to Petunia, Violet, and New Guinea Impatiens.
- (2) Use of COMPASS 50WG Fungicide 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 50WG Fungicide should be tested on a small lot of plants before using for commercial scale production.
- (4) **DO NOT** apply COMPASS 50WG Fungicide to fruit trees that will bear harvestable fruit within 12 months of the last application.
- (5) **DO NOT** use COMPASS 50WG Fungicide 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 50WG Fungicide 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 50WG Fungicide per crop cycle or season.