



Technical Bulletin



Compass™ 50WG
FUNGICIDE

The New Direction in Ornamental Disease Control

New **COMPASS™ 50WG** strobilurin fungicide and its unique mesostemic activity delivers highly effective broad-spectrum ornamental disease control at very low rates for maximum value.

Mesostemic for Maximum Protection

The term “mesostemic” is used to describe **COMPASS 50WG's** unique redistribution on the plant surface and its localized movement or motility in the plant. **COMPASS 50WG** possesses a very strong affinity with the plant surface and therefore binds tightly to ornamental plants. A portion of the active ingredient gets absorbed by the waxy layer of the plant surface and forms a weather-resistant deposit. This deposit acts like a locked-in reservoir continuously replenishing active ingredient metabolized by the plant and prevents infection by maintaining continuous protection of the treated plant.

Redistribution of the fungicide on the plant surface occurs by vapour movement and moisture. Vapour phase movement is localized within the plant canopy, which allows other nearby plant surfaces to be protected. **COMPASS 50WG** penetrates within the plant tissue using translaminar movement, which ensures that both the top and bottom leaf surfaces are protected. There is no transport via the vascular system.

Natural Origins Synthesized For Stability

Strobilurin fungicides are synthetic analogs of naturally occurring substances found in various wood-decaying fungi including mushrooms of the strobilurin species. These naturally-occurring strobilurins need to be synthesized in order to be more stable, more active and deliver longer residual control.

COMPASS Features

- ✓ First strobilurin type (QoI) fungicide registered for use on outdoor ornamentals and greenhouse ornamentals (refer to label for specific species).
- ✓ Registered as a foliar spray for control of Powdery Mildew and Scab on non-bearing ornamental fruit trees in nursery plantings, residential and commercial landscapes.
- ✓ Registered as a drench for control of Rhizoctonia Root Rot (damping off) of new seedlings grown in greenhouses, interiorscapes, field nursery, residential and commercial landscapes, containers and other enclosed structures.
- ✓ Very low use rates.
- ✓ Delivers the value of a contact with the power of a systemic.

The mesostemic activity of COMPASS 50WG delivers

- ✓ Strong surface binding affinity.
- ✓ Absorption by the waxy layer.
- ✓ Surface redistribution.
- ✓ Localized vapour movement.
- ✓ Translaminar activity. Requires among the lowest use rates available on the market

Rotate COMPASS 50WG into Your Fungicide Program

Stobilurin fungicides have been known to develop resistance under continuous repeated use. This can be managed by including fungicides with different modes of action in your fungicide program (such as ROVRAL® WP). COMPASS 50WG should be part of an overall resistance management strategy to ensure maximum performance.

Ornamentals - Spray Schedule

DISEASE	PLANTS	RATE OF PRODUCT (G/100L)	APPLICATION INTERVAL (DAYS)	INSTRUCTIONS
Powdery Mildew <i>(Erysiphe spp., Oidium spp., Podosphaera spp., Sphaerotheca spp.)</i>	Begonia, Cosmos, Geranium, Photinia, Poinsettia, Rose, Salvia, Verbena Snapdragon. (Suppression)	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. Use the high rate under conditions of high disease pressure. DO NOT apply more than ONE foliar application per season or crop cycle for plants grown for, and marketed as 'cut flowers', or on any plants in residential or commercial landscapes or interiorscapes.
Powdery Mildew <i>(Podosphaera Spp., Sphaerotheca spp.)</i>	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.
Scab <i>(Venturia inequalis)</i>	Apple (non-bearing) Hawthorn	14-17.5	7-14	*For control of leaf diseases in non-bearing fruit trees, apply 140-210 g in 1000 L water per ha.
Rhizoctonia Root Rot <i>(Rhizoctonia solani)</i>	Greenhouse Ornamentals – extensive plant list – see label	3.8	Seeding or vegetative cutting, transplanting and every 21-28 days thereafter.	Apply as a drench to wet the upper ½ of the growing media at the time of seeding or rooting of vegetative cutting, again if transplanting, and at 21 to 28-day intervals thereafter. COMPASS 50WG does not control damping off caused by Pythium and Phytophthora spp.



Environmental Impact

All pesticides are regulated under the Pest Control Products Act to ensure that they do not pose an unacceptable risk to human and health and the environment. For information regarding the pesticide regulatory process, visit Health Canada's (Pest Management Regulatory Agency) website <http://www.hc-sc.gc.ca/pmra-arla/>

Compass 50WG Profile

Compass 50WG fungicide contains 50% of the active ingredient trifloxystrobin and is sold as an easy-to-use wettable granular (WG). **Compass 50WG** should be compatible with most insecticide, fungicide and foliar nutrient products. For compatibility of tank mix partners you should always test before use. Do not use in combination with spray additives or surfactants. The soil half-life of **Compass 50WG** is a few days to two weeks. **Compass 50WG** is compatible with beneficials used in the greenhouse.

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 two (2) applications 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 4 applications of COMPASS 50WG Fungicide per cycle or season.



Bayer Environmental Science

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ALWAYS READ PRODUCT LABEL PRIOR TO USE.
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For more information on Compass 50WG, contact Bayer Environmental Science
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