

COMPASS[®] O 50WDG

FUNGICIDE

SPECIMEN LABEL

For Control of Certain Foliar, Stem, and Root Diseases of Ornamentals Grown in Interiorscapes, Field Nursery Plantings, Forest Nurseries, Greenhouses, Lath and Shadehouses, Containers, and Other Enclosed Structures.

FOR PROFESSIONAL USE ONLY.

ACTIVE INGREDIENT:

Trifloxystrobin (CAS No. 141517-21-7) 50.0%

OTHER INGREDIENTS: 50.0%

TOTAL: 100.0%

COMPASS O is a water-dispersible granule.

EPA Est. indicated by second and third digits of the batch number on this package.

EPA Reg. No. 432-1371-59807

(73) = 67545-AZ-1 (03) = 3125-MO-1 (98) = 33967-NJ-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.
In case of emergency call toll free the OHP, Inc. Emergency Telephone No. 1-800-356-4657. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.	

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory

Several trifloxystrobin degradates have properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Net Contents: 1 pound (454 grams)



PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses on this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exception: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170).

The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

Do not apply by aerial application in New York State

GENERAL INFORMATION

COMPASS® O is a modern site specific fungicide for use on ornamentals with protective and curative activity. **COMPASS O** 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.

Mixing Procedures (Water Dispersible Granules)

Prepare no more spray mixture than is needed 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 O Alone: Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the **COMPASS O** to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after **COMPASS O** has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

COMPASS O + Tank Mixtures: Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. In general, tank mix partners should be added in this order:

(1) products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as **COMPASS O**; (2) liquid flowables, liquids; and (3) emulsifiable concentrates. Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

Note: When using **COMPASS O** in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including **COMPASS O**. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using **COMPASS O** in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations that appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product that prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

COMPASS O is compatible with most insecticide, fungicide, and foliar nutrient products. However, the compatibility of **COMPASS O** with tank mix partners should be tested before use.

To determine biological compatibility with other products, mix the products in the desired proportions, spray on target plants and observe for phytotoxicity seven days after the application.

To determine the physical compatibility of **COMPASS O** with other products, use a jar test, as described below. Using a quart jar, add the proportionate amounts of the products to 1 qt. 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.

Observe all directions, precautions, and limitations on labeling of all products used in tank mixes. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Use with additives: Use of spray additives are not required. Any spray additive should be evaluated prior to use. Do not use in conjunction with organosilicate-based products, or plant injury may occur. Label directions are based on data with no additives.

Chemigation: Do not apply this product through any type of irrigation system.

Resistance Management: **COMPASS® O** 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. However, certain fungal pathogens are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies. Such strategies may include rotating and/or tank mixing with products having different modes of action; or limiting the total number of applications per season. OHP encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label. See specific recommendations in the ornamentals section.

Maximum Use Rates

For plants grown in outdoor nurseries, outdoor seedbeds, field plantings, and landscapes up to 34 1/2 oz. of **COMPASS O** per acre of production per year or crop cycle can be used.

For seedlings and plants grown in greenhouses, containers, and other enclosed structures, up to 120 oz. of **COMPASS O** per acre per year or crop cycle can be used. In California only, do not apply more than 34 1/2 oz. of **COMPASS O** per acre per year or crop cycle to seedlings or plants grown in greenhouses, containers, and other enclosed structures.

ORNAMENTAL DISEASE CONTROL

COMPASS O is a broad-spectrum fungicide for the control of certain foliar, stem, and root diseases of ornamentals grown in interiorscapes, field nursery plantings, forest nurseries, greenhouses, lath and shadehouses, containers, and other enclosed structures.

Foliar Diseases: **COMPASS O** will control foliar diseases of ornamentals when applied as a foliar spray. Apply **COMPASS O** at 1 to 4 oz./100 gals. to the point of drip and repeat at 7 to 14 day intervals until the threat of disease is over. Start applications when conditions are favorable for disease development and continue until the threat of disease is over.

Damping off of New Seedlings: **COMPASS O** will control damping off of new seedlings caused by *Rhizoctonia solani* when applied as a drench to seedlings and transplants. Drench the growth media at a rate of 1/2 oz./100 gals. Repeat every 21 to 28 days. If *Pythium* spp. are also present, **COMPASS O** should be mixed with a Pythium control fungicide.

The plants that **COMPASS O** has been tested on, diseases that are controlled, and specific directions for use are listed in Tables 1, 2, and 3. Refer to Table 1 for information on ornamentals and diseases that have been evaluated, Table 2 for specific pathogens controlled, and to Table 3 for specific guidelines on the rates and timing of application.

Table 1. COMPASS O has been tested for phytotoxicity and been found safe to the following plants*. The numbers in () indicate the diseases listed in Table 2. For plants not listed and for use of COMPASS O in tank mixtures, see Notice to Users.

Ajuga (2,11,12)	Crabapple, nonbearing** (8,11,13,14)	Hawthorn, Indian (8,12)	Peach, non-bearing** (5,12,15)
Aloe Vera (12)	Daisy (12)	Heather, Mexican (12)	Penstemon (2,8,11)
Alyssum (7,12)	Dianthus (1,5,8,12,13)	Hedera spp. (2,5,10,12)	Petunia (5,12)
Apple, nonbearing** (11,13,14,15)	Day Lily (8,12,13)	Hen and Chickens, flowering (12)	Phlox (5,7,11)
Aptenia (12)	Delphinium (5,8,11,12)	Hibiscus (2,5,10,12)	Photinia (4,8,11)
Aster (11,12,13)	Dieffenbachia spp. (9,10,12)	Holly (Ilex) (4)	Pittosporum (1,8,12)
Azalea (2,5,11,12,13)	Digitalis (Foxglove) (7)	Hosta (5,12)	Plum, non-bearing** (5,11,14)
Azalea (Rhododendron) (2,10,11,12,13)	Dogwood (Cornus spp) (2,11)	Hydrangea (11)	Poinsettia (1,5,11,12,14)
Bamboo (12,14)	Dracaena (8)	Hypericum (13)	Poppy (5)
Barberry, Japanese (4)	Dusty Miller (1,12)	Hypoestes (12)	Primula (Primrose) (5)
Begonia (5,11,12)	Dwarf Ivy (12)	Impatiens (1,7,12)	Prunus (2,5)
Bellis (1,2,5)	Euonymus (2,11)	Indian Hawthorne (Raphiolepis) (8)	Rabbit's Foot Fern*** (5,12)
Betula (11,13)	Exacum (5)	Iris (dwarf, Japanese, Siberian) (8,12)	Ranunculus (7,11)
Blue Daze (12)	Ficus (2,12)	Jasmine (2,12)	Photinia (Red Tip) (8)
Bottle Brush (14)	Geranium (1,5,7,11,13)	Juniperus tortulosm (12)	Rose (3,5,6,7,11,12,13,14)
Brachycome (12)	Gerbera (caution on open flower) (2,5,11)	Lantana (12,13)	Pothos (9,10,12)
Buddleia (butterfly bush) (8)	Grasses: list (2,8,11,13)	Lagerstroemia (Crape myrtle) (11)	Salvia (1,5,7,11,12,13)
Camellia (2,5,12)	Avena: Blue Grass	Ligustrum (1,2,8,12)	Snapdragon (2,5,7,8,11,12,13)
Campanula (Bell Flower) (11,12,13)	Festuca Glauca: Blue Fescue	Lilac (5,11,12)	Spathiphyllum (6,9,10)
Caladium (12)	Festuca Glauca: Sea Urchin	Liriope (12)	Spirea (11)
Cast Iron Plant (12)	Festuca Glauca: Elijah Blue	Lupines (2,5,11,12)	Syngonium (9,12)
Catnip (5,8,12)	Lagurus: Rabbit Tail	Marigold (1,5,11,12)	Verbena (5,7,11,12)
Cedar (8,13)	Pampas Grass: Pink	Mint (11,13)	Veronica (11)
Celosia (5,12)	Pampa Grass: White	Monarda (Bee Balm) (5,11)	Viburnum spp. (2,8,12)
Cherry, nonbearing** (11,14,15)	Pennisetum Rubrum (Crimson Fountain Grass)	Moonflower (12)	Vinca (Catharanthus) (1,4,5,10,12)
Chrysanthemum (5,8,12,13)	Silver Banner Grass	Nandina (2,11)	Vinca Minor (2,10)
Citrus, nonbearing (11)	Variagated Ribbon Grass (Phalarispicta)	Nectarine, nonbearing** (8,11,14,15)	Zinnia (1,11)
Coleus (5,12)	Hawthorn (5,8,14)	Pansy* (1,2,5,7,8,11,12)	
Coontie Palm (12)			
Coreopsis (1,5,7,11,12)			
Cosmos (11,12)			

Notes: * Do not drench Pansy.
 ** Do not apply **COMPASS O** to fruit trees that will bear harvestable fruit within 12 months of the last application.
 *** Do not use **COMPASS O** on leatherleaf ferns.

Table 2. Common and scientific names of diseases controlled by COMPASS® O.

Common Name	Scientific Name
1. Alternaria (B)	<i>Alternaria</i> spp.
2. Anthracnose (B)	<i>Colletotrichum</i> spp.
3. Black Root (D)	<i>Thielaviopsis</i> spp.
4. Black Spot (B)	<i>Diplocarpon rosae</i>
5. Botrytis (B)	<i>Botrytis</i> spp.
6. Cythrodium (D)	<i>Cylindrocladium</i> spp.
7. Downy Mildew (A)	<i>Peronospora</i> spp.
8. Leaf Spot (B)	<i>Septoria</i> spp.
9. Myrothecium (A)	<i>Myrothecium</i> spp.
10. Phytophthora aerial (A)	<i>Phytophthora parasitica</i>
Phytophthora root (D)	
11. Powdery Mildew (A)	<i>Erysiphe</i> spp.
	<i>Microsphaera</i> spp.
	<i>Oidium</i> spp.
	<i>Podoshpaera</i> spp.
	<i>Sphaerotheca</i> spp.
12. Rhizoctonia stem / root rot (C)	<i>Rhizoctonia solani</i>
13. Rust (B)	<i>Gymnosporangium</i> spp.
	<i>Phragmidium</i> spp.
	<i>Puccinia uromyces</i>
14. Scab (B)	<i>Cladosporium</i> spp.
	<i>Spaceloma</i>
	<i>Venturia inaequalis</i>
15. Blossom Blight (E)	<i>Monilinia</i> spp.

Table 3. Specific use directions for selected pathogens.

- A. Apply **COMPASS O** as a foliar spray at 1 to 2 oz. /100 gals. 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.
- B. Apply **COMPASS O** as a foliar spray at 2 to 4 oz. /100 gals. 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.
- C. Apply 1/2 oz. /100 gals. as a drench to wet the upper 1/2 of the growing media. Start the application at the time of seedling, again at transplanting and at 21 to 28-day intervals thereafter.
- D. Apply 1 to 2 oz. product /100 gals. as a drench to wet the upper 1/2 of the growing media. Start the application at the time of planting and at 14 to 28 days depending on disease

NOTICE TO USER: Plant tolerance to **COMPASS O** has been found to be acceptable on all it has been tested on. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for tolerance to **COMPASS O**. Neither the Manufacturer nor the Seller has determined whether or not **COMPASS O** can be used safely on ornamental plants not specified on this label. The professional user should determine if **COMPASS O** can be used safely prior to commercial use. In a small area test the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using **COMPASS O** in tank mixture with other products, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

Before using **COMPASS O** on plants for diseases that are not listed in the Directions for Use, test **COMPASS O** on a small scale first.

pressure.

Resistance Management for Ornamentals

COMPASS O is a modern, site-specific fungicide belonging to the strobilurin class of chemistry. Fungal pathogens are known to develop resistance to fungicides with a specific mode of action. When site-specific fungicides are introduced without a clear resistance management strategy, resistance development may be rapid, particularly with greenhouse use.

COMPASS O exhibits cross-resistance to other strobilurins and fungicides within the **Strobilurin Type Action and Resistance group (STAR compounds)**, but there is no known cross-resistance to fungicides of other classes including sterol inhibitors, dicarboximides, benzimidazoles, anilino-pyrimidines, phenylpyrroles, or phenylamides.

Many fungi which attack ornamentals and flowering plants including Botrytis and powdery mildews have a history of fungicide resistance development. Because resistance development cannot be predicted, implementation of suitable strategies to manage the resistance risk to **COMPASS O** is needed. To minimize the risk of resistance development to **COMPASS O**, the following practices are recommended.

1. Use **COMPASS O** preventively.
2. For Leaf Spots and diseases other than Powdery Mildew, Downy Mildew, and Botrytis:
 - A. Use no more than two (2) applications of **COMPASS O** before rotating to another effective product that is not in the strobilurin class of chemistry for two (2) applications before rotating back to **COMPASS O**.
 - OR
 - B. Rotate to another fungicide or nonstrobilurin chemistry after each **COMPASS O** application.
3. For Powdery Mildew, Downy Mildew, and Botrytis:
 - A. Between each **COMPASS O** application, make two (2) applications of a fungicide of nonstrobilurin chemistry before rotating back to **COMPASS O**.
 - OR
 - B. Rotate to another fungicide of nonstrobilurin chemistry after each **COMPASS O** application
4. Make no more than four (4) foliar applications of **COMPASS O** per crop cycle or season for each at risk pathogen. Soil applications are independent of this limit.
5. Do not use **COMPASS O** for disease control in vegetables grown in greenhouses for crop production or in vegetable production of transplants for outdoor use.

Restrictions

1. For ground application, a minimum of 50 gals./A is recommended.
2. For aerial application, a minimum of 10 gals./A is recommended.
3. To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap.
4. For information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural experiment station recommendations.
5. Use of spray additives are not required. Any spray additive should be evaluated prior to use. Do not use in conjunction with organosilicate-based products, or plant injury may occur. Label directions are based on data with no additives.

Maximum Use Rates in Ornamentals

1. For plants grown in outdoor nurseries, outdoor seedbeds, field plantings, and landscapes, up to 34 1/2 oz. of **COMPASS® O** per acre of production or acre of landscape per year or crop cycle can be used.
2. For seedlings and plants grown in greenhouses, containers, and other enclosed structures, up to 120 oz. of **COMPASS O** per acre per year or crop cycle can be

used. In California only, do not apply more than 34 1/2 oz. of **COMPASS O** per acre per year or crop cycle to seedlings and plants grown in greenhouses, containers, and other enclosed structures.

3. For foliar applications, do not apply more than 8 oz. of **COMPASS O** per acre per application.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. The OHP, Inc.'s Emergency Response Telephone No. is 800-356-4647 or contact Chemtrec at 800-424-9300.

PESTICIDE DISPOSAL: Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond OHP's control it is impossible for OHP to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user of buyer.

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Compass is a registered trademark of Bayer AG.

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