

GROUP 11 FUNGICIDE

**QUALI-PRO**

# Strobe™ 50WG

*Broad Spectrum Fungicide  
for Control of Plant Diseases in Turf and Ornamentals*

Manufactured for:



**CONTROL  
SOLUTIONS**

5903 Genoa-Red Bluff Road  
Pasadena, TX 77507-1041

EPA Reg. No.: 53883-343  
EPA Est. No.: 53883-TX-002

**NET CONTENTS: 1 POUND**



**ACTIVE INGREDIENT: % BY WEIGHT**

**Azoxystrobin:**..... 50.0%  
methyl (2E)-2-(2-[[6-(2-cyanophenoxy)  
pyrimidin-4-yl]oxy]phenyl)-3-methoxyacrylate\*

**OTHER INGREDIENTS:**..... 50.0%

**TOTAL**..... 100.0%

Contains 0.5 lb. active ingredient per pound of product.

\*IUPAC

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary Statements and  
Directions for Use inside booklet.

EPA 062414/REV A

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**C O N T R O L**  
**S O L U T I O N S**

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## FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.	

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed, and absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber
- Shoes plus socks

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

**ENGINEERING CONTROLS STATEMENT**

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. Wash thoroughly with soap and water after handling.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Strobe™ 50WG is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Strobe™ 50WG can be persistent for several months or longer.

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 water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

## **GROUND WATER ADVISORY:**

Strobe™ 50WG and a degradate of Strobe™ 50WG are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### **SURFACE WATER ADVISORY**

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of Strobe™ 50WG and a degradate of Strobe™ 50WG from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify state and/or federal authorities immediately if you observe any adverse environmental effects due to the use of this product.

## **PHYSICAL AND CHEMICAL HAZARDS**

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

## **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), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during restricted-entry interval (REI) of 4 hours.** 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 such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

The Non-Agricultural Use Requirements box applies when this product is used to control diseases on turf and ornamentals on golf courses, lawns, and landscape areas around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas, and athletic fields.

## 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. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because some states may require a more restrictive re-entry interval, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated is dry.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

## **PRODUCT INFORMATION**

Strobe™ 50WG is a broad spectrum preventative fungicide with systemic and curative properties and can be used for the control of many important plant diseases.

Strobe™ 50WG may be applied as a foliar spray, in alternating spray programs, or in tank mixes with other registered pesticides. All applications must be made according to the use directions found on this label and the labels of tank mix products.

Do not graze or feed clippings from treated turf areas to animals.

### **SPRAY DRIFT PRECAUTIONS AND PHYTOTOXICITY NOTICE**

Attention: AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees and apple fruit, as Strobe™ 50WG is extremely phytotoxic to certain apple varieties. Do not spray Strobe™ 50WG where spray drift will reach apple trees. Do not spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your state extension agent for spray drift prevention guidelines in your area. Do not use spray equipment which has been previously used to apply Strobe™ 50WG to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity. Avoiding spray drift is the responsibility of the applicator.

Strobe™ 50WG has demonstrated some phytotoxic effects when mixed with products that are formulated as emulsifiable concentrates (ECs). These effects are enhanced if applications are made under cool, cloudy conditions, and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone have also contributed to phytotoxicity.

### **INTEGRATED PEST MANAGEMENT (IPM)/DISEASE MANAGEMENT**

Integrate Strobe™ 50WG into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices that are known to reduce disease development. Consult your local authorities for additional treatment programs that are compatible with the principles of Integrated Pest Management (IPM), which include the use of disease-resistant turf varieties, cultural practices, pest scouting, disease forecasting systems, etc.

## RESISTANCE MANAGEMENT

Strobe™ 50WG is a Group 11 fungicide. The mode of action is the inhibition of the Qo (quinone outside) site within the electron transport system, as well as disruption of membrane synthesis by blocking demethylation [Group 11]. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development can't be predicted, use of this product should conform to resistance management strategies established for turf and its use area. Consult your local or state agricultural authorities for resistance management strategies that are complimentary to those in this label.

Resistance management strategies include alternating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Follow the crop specific resistance management recommendations in the directions for use below. If no resistance recommendation is specified on number of applications is specified in the directions for use on turf, follow the recommendations in the table below.

If planned total number of fungicide applications is:	1	2	3	4	5	6	7	8	9	10	11	12
Recommended Solo Qol Fungicide Sprays:	1	1	2	2	2	2	2	3	3	3	3	4
Recommended Qol Fungicide Sprays in mixture (tank mix or formulated):	1	2	2	2	2	3	3	4	4	5	5	6

In situations requiring multiple sprays, develop season-long spray programs for Group 11 (Qol) Fungicides. In turf where two sequential Group 11 Fungicide applications are made, they should be alternated with two or more applications of a fungicide that is not in Group 11. If more than 12 applications are made, observe the following guidelines:

- When using a Qol Fungicide as a solo product, the number of applications should be no more than 1/3 (33%) of the total number of fungicide applications per season.
- For Qol mixes in programs in which tank mixes or premixes of Qol with mixing partners of a different modes of action are utilized, the number of Qol-containing applications should be no more than ½ (50%) of the total number of fungicide applications per season.
- In programs in which applications of Qol are made with both solo products and mixtures, the number of Qol-containing applications should be no more than ½ (50%) of the total number of fungicide applied per season.



If a Group 11 Fungicide is applied, do not make another application with a Group 11 Fungicide for at least 3 weeks.

## SPRAYING AND MIXING

Strobe™ 50WG may be applied with all types of spray equipment commonly used for making ground applications. Do not apply through any type of ultra-low volume (ULV) spray system. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when environmental conditions conducive to disease exist. Apply Strobe™ 50WG in sufficient water volume for adequate coverage and canopy penetration.

### Spray Solution Preparation

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of Strobe™ 50WG to the tank, allowing time for good dispersion, then add an adjuvant if suggested. If tank mixes are required, add products to the spray tank in the following order: Strobe™ 50WG, then other WG or dry flowable formulations, then wettable powders and flowable (aqueous suspensions) last. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the entire spraying operation. Do not allow the spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Thoroughly clean sprayers immediately after application.

Strobe™ 50WG is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides, and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or other authorities for compatibility information.

Strobe™ 50WG is incompatible with many fertilizers when low water volumes are used for in-furrow applications. Cold temperatures and water quality exacerbate these compatibility problems. Conduct a physical compatibility test as described below. Do not combine Strobe™ 50WG in the spray tank with pesticides, surfactants, or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious under your conditions of use. If physical compatibility is unknown, follow the procedure outlined in the **Physical Compatibility Test** section of the label below.

**Physical Compatibility Test:** Use a suitable container (1 pint) and mix a small amount of spray solution by adding each component in the order and ratio as required for making large amounts of the tank mix solution. Stir the contents and allow them to settle for 20 minutes. Solutions that stay in suspension or can be remixed readily are considered physically compatible. Increased compatibility may result if a buffering agent is used.

## **CHEMIGATION INSTRUCTIONS**

### **Applications Through Sprinkler and Drip Chemigation Systems**

**Spray Preparation:** Chemical tank and injector system must be thoroughly cleaned. Flush system with clean water.

### **Use Precautions for Sprinkler and Drip Irrigation Applications**

Drip Irrigation: Strobe™ 50WG may be applied through drip irrigation systems to potted ornamentals or to bedded, field-grown ornamentals for soil-borne disease control. Apply 2-16 oz. (0.0625-0.5 lb. a.i./A) Strobe™ 50WG per acre as a preventative disease application. Ensure that the soil or potting media has adequate moisture capacity prior to drip application.

Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, delay subsequent irrigation (water only) for at least for 24 hours following a drip application.

**Sprinkler Irrigation:** Apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system except as specified on this label.

Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment. In general, use the least amount of water required for proper distribution and coverage. If stationary systems (solid set, handlines or wheelines other than continuous-move) are used, inject this product into no more than the last 20-30 minutes of the set. Do not apply when winds are greater than 10-15 mph to avoid drift or wind skips. Do not apply when wind speed favors drift beyond the area intended for treatment.

Plant injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform treated water. Thorough coverage of foliage is required for good control. Maintain good agitation during the entire application period.

If you have questions about calibration, contact a State Extension Service specialist, equipment manufacturers, or other experts.

### **System Requirements**

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

## TURF

Strobe™ 50WG can be used for control of certain pathogens causing foliar, stem, and root diseases including leaf and stem blights, leaf spots, patch diseases, mildew, molds and rusts of turfgrass plants. Use Strobe™ 50WG to control certain diseases on golf courses, lawns and landscape areas around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas and athletic fields.

**Integrated Pest (Disease) Management (IPM):** Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Cultural practices such as proper choice of turf variety, nutrient management, proper cutting height, thatch management, and proper watering, drainage, and moisture stress management should be integrated with the use of fungicides to increase turf vigor and reduce the susceptibility to disease. Immunoassay detection kits and extension service diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

**Resistance Management:** Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. Apply Strobe™ 50WG in a tank mix or alternation program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Since Strobe™ 50WG is a strobilurin fungicide, avoid alternation with other strobilurins. Do not apply more than two sequential Strobe™ 50WG applications for Gray leaf spot and *Pythium* spp. control. For all other diseases when Gray leaf spot and *Pythium* spp. are not present, do not apply more than three sequential applications of Strobe™ 50WG.

**Application Directions:** Apply Strobe™ 50WG prior to disease development. Mix Strobe™ 50WG with the required amount of water and apply as a dilute spray application in 2-4 gallons of water per 1000 square feet (87-174 gallons per acre). Repeat applications at specified intervals for as long as required. For spot treatments, use 0.2 oz. Strobe™ 50WG per 1 to 2 gallons of water. Do not apply more than 10 lbs. product/acre/year (3.7 oz. product/1000 square feet/year). Make applications by ground only.

**For use with soil injection applications:** Apply Strobe™ 50WG through a liquid fungicide injector for the control of ectrotrophic root diseases such as summer patch and take-all patch. Use Strobe™ 50WG only in liquid injection equipment specifically designated for pesticide use.

Apply Strobe™ 50WG at 0.2 to 0.4 oz. per 1000 sq. ft. Spray carrier volume should fall within 30-150 gal. of water per 1000 sq. ft. Use injection hole spacing of 1 inch by 1 inch for optimum control. Injection depth should be no greater than 2 inches. Optimum results occur at one inch depth. Application timing should follow disease control strategies used for normal broadcast spray programs.

**For use in the establishment of turfgrass from seed or in overseeding of dormant turfgrass:** Use Strobe™ 50WG for control of certain turfgrass diseases associated with turfgrass establishment from seed. Strobe™ 50WG may also be used during overseeding of dormant turfgrass. Strobe™ 50WG may be safely applied before or after seeding or at seedling germination and emergence to ryegrass, bentgrass, bluegrass, and fescue turfgrass types. Optimum application timing is during seeding. See **Application Directions** section above.

**Rate Ranges:** Use the shorter specified application interval and/or use the higher specified rate when prolonged favorable disease conditions exist.

**Dollar Spot:** Strobe™ 50WG does not control dollar spot. During periods of dollar spot pressure, always mix Strobe™ 50WG with a product containing chlorothalonil or other dollar spot control fungicides. Strobe™ 50WG is compatible in tank mixes with many other fungicides that control dollar spot. Follow directions found under **SPRAYING AND MIXING** section of this label.

## DIRECTIONS FOR APPLICATION FOR TURF DISEASES

Target Diseases	Use Rate (oz. product per 1000 sq. ft.)	Application Interval (days)	Remarks*
Anthraxnose (Colletotrichum gramini-cola)	0.2-0.4	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Brown Patch (Rhizoctonia solani)	0.2-0.4	14-28	Apply when conditions are favorable for disease development.

Cool Weather Brown Patch Yellow Patch ( <i>Rhizoctonia cerealis</i> )	0.4	28	Make one or two applications in fall or when conditions are favorable for disease development.
Fairy Ring ( <i>Lycoperdon</i> spp., <i>Agrocybe pediades</i> , and <i>Bovistia plumbea</i> )	0.4	28	Apply as soon as possible after fairy ring symptoms develop. Apply only in 4 gallons water per 1000 square feet (174 gallons/ acre). Add the recommended rate of a wetting agent to the final spray. Severely damaged or thin turf may require reseeding. Fairy ring symptoms may take 2 to 3 weeks to disappear following application. Reapplication after 28 days may be required in some cases.
Fusarium Patch ( <i>Microdochium nivale</i> )	0.2-0.4	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	0.2-0.4	14-28	Begin applications before disease is present and continue applications while conditions are favorable for disease development.
Gray Snow Mold Typhula blight ( <i>Typhula incarnata</i> )	0.7 (when making a single application)  0.4 (when making two applications)	single application 10-28	Make a single application of 0.7 oz. or two applications of 0.4 oz. spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as a product containing chlorothalonil, may enhance control under severe disease pressure.
Leaf Rust Stem Rust Stripe Rust ( <i>Puccinia</i> spp.)	0.2-0.4	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Leaf spot ( <i>Bipolaris sorokiniana</i> )	0.2-0.4	14-21	Apply when conditions are favorable for disease development.

Melting Out ( <i>Drechslera poae</i> )	0.2-0.4	14-21	Apply when conditions are favorable for disease development.
Necrotic Ring Spot ( <i>Leptosphaeria korrae</i> )	0.4	14-28	Apply when conditions are favorable for disease development.
Pink Patch ( <i>Limonomys roseipellis</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Pink Snow Mold ( <i>Microdochium nivale</i> )	0.7 (when making a single application) 0.4 (when making two applications)	single application 10-28	Make a single application of 0.7 oz. or two applications of 0.4 oz. spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as a product containing chlorothalonil, may enhance control under severe disease pressure.
Powdery Mildew( <i>Erysiphe graminis</i> )	0.2-0.4	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Pythium Blight Pythium Root Rot ( <i>Pythium aphanidermatum</i> , <i>Pythium</i> spp.)	0.4	10-14	Use preventatively. Begin applications before disease is present. During periods of prolonged favorable conditions, treat on the 10-day application interval. For use on newly seeded as well as established turf.
Red Thread ( <i>Laetisaria fuciformis</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Rhizoctonia Large Patch ( <i>Rhizoctonia solani</i> )	0.2-0.4	14-28	Make one or two applications in fall or when conditions are favorable for disease development.
Southern Blight ( <i>Sclerotium rolfsii</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.

Spring Dead Spot ( <i>Leptosphaeria korrae</i> ) or ( <i>Gaeumannomyces</i> <i>graminis</i> var. <i>graminis</i> ) or ( <i>Ophiosphaerella</i> <i>herpotricha</i> )	0.4	14-28	Apply 1 or 2 applications approximately one month prior to bermudagrass dormancy. 1/4" to 1/2" of irrigation directly after application is suggested. Reapply 14 to 28 days later.
Summer Patch ( <i>Magnaporthe poae</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Take-all patch ( <i>Gaeumannomyces</i> <i>graminis</i> var. <i>avenae</i> )	0.4	28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development. Make two applications (28 days apart) in the spring and two applications (28 days apart) in the fall.
Zoysia Patch ( <i>Rhizoctonia solani</i> and/or <i>Gaeumannomyces</i> <i>incrustana</i> )	0.2-0.4	14-28	Apply 1 or 2 applications approximately one month prior to zoysiagrass dormancy. Reapply 14 to 28 days later.

\*Do not apply more than two sequential applications of Strobe™ 50WG for control of Gray leaf spot and *Pythium* spp. For all other diseases when Gray leaf spot and *Pythium* spp. are not present, do not apply more than three sequential applications of Strobe™ 50WG.



### Strobe™ 50WG Rate Conversion Chart for Turf

Ounces Product Per 1000 Sq. Ft.	Ounces A.I. Per 1000 Sq. Ft.	Ounces Product Per Acre	Pounds Product Per Acre
0.20	0.10	8.7	0.5
0.30	0.15	13.1	0.8
0.40	0.20	17.4	1.1
0.70	0.35	30.5	1.9

### Amount of Strobe™ 50WG to Mix 100 Gallons for Turf Applications

Use Rate	Spray Volume (gallons/1000 square feet)		
	2.0 gals.	3.0 gals.	4.0 gals.
0.2 oz.	10 oz.	6.7 oz.	5 oz.
0.4 oz.	20 oz.	13.3 oz.	10 oz.
0.7 oz.	35 oz.	23.3 oz.	17.5 oz.

## ORNAMENTALS

Strobe™ 50WG is used for control of certain pathogens causing foliar, aerial, and root diseases, including leaf, tip, and flower blights, leaf spots, downy mildew, powdery mildew, anthracnose, and rusts of ornamental plants. Strobe™ 50WG may be used to control certain diseases of container, bench, flat, plug, bed or field-grown ornamentals in greenhouses, shade houses, outdoor nurseries, retail nurseries, and other landscape areas.

**Integrated Pest (Disease) Management:** Strobe™ 50WG should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, winter and/or spring pruning, plant residue management, and proper timing and placement of irrigation. Immunoassay detection kits and diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

**Resistance Management:** Some ornamental disease pathogens are known to have developed resistance to fungicides used repeatedly for their control. Apply Strobe™ 50WG in an alternation or tank mix program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Do not make more than three (3) sequential applications of Strobe™ 50WG before alternating with a fungicide of a different mode of action. A sound resistance management program would include blocks of three Strobe™ 50WG applications separated by blocks of two alternate fungicide applications. Do not alternate Strobe™ 50WG Fungicide with other strobilurin fungicides.

**Application Directions:** Apply Strobe™ 50WG as a broadcast or banded spray targeted at the foliage or crown of the plant. Apply to runoff in sufficient water to ensure complete coverage of the target plant. Good coverage and wetting of foliage is necessary for best control. Refer to the label for specific use directions for control of certain diseases. Repeat applications at specified intervals (plus alternations for resistance management) for as long as required. Make applications by ground only.

Strobe™ 50WG applications should begin prior to disease development and continue throughout the season at specified intervals following resistance management guidelines. Strobe™ 50WG Fungicide works best when used as part of a preventative disease management program. Use only surfactants approved for ornamental plants in combination with Strobe™ 50WG. Do not use silicone-based products with Strobe™ 50WG due to possible phytotoxicity. Always test tank mixes on a small group of representative plants prior to broadscale use.

Apply Strobe™ 50WG at use rates of 1-4 oz./100 gallons (0.5-2 oz./50 gallons) and every 7-28 days (or as otherwise specified for a specific plant or disease). The addition of a non-silicone based wetter-sticker at the recommended use rate may enhance coverage on hard-to-wet plant foliage. Under most conditions and for most diseases, apply 2-4 oz./100 gallons (1-2 oz./50 gallons) on a 7-14 day interval. Under light to moderate disease pressure, use the lower rates (1-2 oz./100 gallons or 0.5-1 oz./50 gallons) on intervals of 7-14 days or the higher rates (3-4 oz./100 gallons or 1.5-2 oz./50 gallons) on intervals of 14-28 days. Under environmental conditions which promote severe disease development, use the higher rates (3-4 oz./100 gallons or 1.5-2 oz./50 gallons) on intervals of 7-14 days. Use of Strobe™ 50WG as a "rescue" (late curative or eradicant) treatment may not always result in satisfactory disease control.

#### **Ornamental Use Restrictions**

- Do not apply Strobe™ 50WG to apple or cherry trees (flowering, Yoshino variety) due to possible phytotoxicity.

- Do not use spray equipment that has applied Strobe™ 50WG for use in these sensitive crops due to possible phytotoxicity from residue remaining in the sprayer.
- Do not exceed 10 lbs. product/crop acre/year or 8 applications/crop/year.
- Do not exceed 600 gallons spray volume per acre for foliar applications. For drench and crown applications, do not exceed 2 pints volume per square foot.
- Do not tank mix Strobe™ 50WG with other fungicides, insecticides, herbicides, fertilizers, adjuvants, etc., unless local experience indicates that the tank mix is safe to ornamental plants.

#### **Ornamental Use Precautions**

- Strobe™ 50WG may be applied to certain varieties of crabapple for control of apple scab. Strobe™ 50WG has been shown to be safer when applied to the species and varieties listed in Table 4. However, due to the large number of genera, species, and varieties of crabapple, it is impossible to test every one for tolerance to Strobe™ 50WG. The professional user should conduct small scale testing to ensure plant safety prior to broadscale commercial use on plant genera and species not listed on this label.

**Drench Application:** Strobe™ 50WG may be applied to control soil-borne, seedling, and crown diseases of production ornamentals (greenhouse, shade house, and container grown) as a preventative, drench treatment prior to infection. Good coverage of the pre-infection area (root zone, root ball, crown, etc.) is necessary for satisfactory control. Strobe™ 50WG may be drench applied to container grown ornamentals using 0.2-0.9 oz./100 gallons of water. Apply 1-2 pints of the solution per square foot surface area on an interval of 7-28 days. Apply drench prior to infection as healthy roots are necessary to optimize product uptake, systemic translocation, and disease protection.

For resistance management, do not make more than three (3) sequential drench applications of Strobe™ 50WG before alternating with a fungicide of a different mode of action.

Use care before making application of Strobe™ 50WG as a drench to small bedding plants in the seedling/plug stage due to possible phytotoxicity. Test a limited quantity of plants prior to full-scale application.

**Drip Irrigation:** Strobe™ 50WG may be applied through drip irrigation systems to potted ornamentals or to bedded, field-grown ornamentals for soil-borne disease control. Apply 2-16 oz. Strobe™ 50WG per acre as a preventative disease application. The soil or potting media must have adequate moisture capacity prior to drip application. Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, delay subsequent irrigation (water only) for at least for 24 hours following drip application.

**TABLE 1**  
**Diseases Controlled**

When used in accordance with the label directions, Strobe™ 50WG will provide control of the following diseases of ornamental plants:

DISEASE (Pathogen)	Use Rates and Remarks	
	8 oz. and larger containers (oz. product per 100 gallons)	4 oz. containers (oz. product per 50 gallons)
1. CONIFER BLIGHTS		
a. Phomopsis Blight (Phomopsis juniperovora)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Tip Blight (Sirococcus strobilinus)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
2. LEAF BLIGHTS/LEAF SPOTS		
a. Alternaria Leaf Spot (Alternaria spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Anthracnose (Colletotrichum spp., Elsinoe spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
c. Downy Mildew of Rose (Peronospora sparsa)	Apply 2-4 oz. every 7-21 days during periods of active plant growth and prior to dormancy or severe infection.	Apply 1-2 oz. every 7-21 days during periods of active plant growth and prior to dormancy or severe infection.
d. Entomosporium Leaf Spot (Entomosporium mespili)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
e. Iris Leaf Spot (Myosphaerella macrospora)	Apply 2-4 oz. every 7-21 days.	Apply 1-2 oz. every 7-21 days.

f. Leaf spot (Cladosporium echinulatum)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
g. Rose Blackspot (Diplocarpon rosea)	Apply 4-8 oz. every 7-14 days. Apply Strobe™ 50WG on a 7-day interval unless disease pressure is light. Under severe disease conditions or if disease is already present, Strobe™ 50WG may be tank mixed with another rose blackspot fungicide. Do not exceed 24 oz./acre/application.	Apply 2-4 oz. every 7-14 days. Strobe™ 50WG on a 7-day interval unless disease pressure is light. Under severe disease conditions or if disease is already present, Strobe™ 50WG may be tank mixed with another rose blackspot fungicide. Do not exceed 24 oz./acre/application.
h. Myrothecium leaf spot (Myrothecium spp.)	Apply 2-4 oz. every 7-21 days.	Apply 1-2 oz. every 7-21 days.
i. Downy Mildew of bedding plants (Peronospora spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
j. Scab (Venturia inaequalis)	Apply 1-4 oz. every 10-28 days. Do not apply to apple trees. For crabapples only, see Table 4 for tolerant species.	Apply 0.5-2 oz. every 10-28 days. Do not apply to apple trees. For crabapples only, see Table 4 for tolerant species.
k. Marrsonina Leaf Spot (Marsonina spp.)	Apply 1-4 oz. every 14-28 days.	Apply 0.5-2 oz. every 14-28 days.
l. Cercospora Leaf Spot	Apply 1- 4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
3. POWDERY MILDEW Preventative applications only. Do not make more than 2 sequential applications before rotating to another class of fungicide.		
a. Erysiphe pannosa, E. spp.	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Microsphaera azaleae	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
c. Sphaerotheca pannosa	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
4. RUSTS		

a. Needle Rust ( <i>Melampsora occidentalis</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. <i>Phragmidium</i> spp.	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
c. <i>Puccinia</i> spp.	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
d. <i>Gymnosporangium</i> spp.	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
5. FLOWER BLIGHTS		
a. Anthracnose ( <i>Collectotrichum</i> spp., <i>Elsinoe</i> spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Botrytis Blight ( <i>Botrytis cinerea</i> )	Apply 4-8 oz. every 7-21 days. For suppression only. Do not exceed 24 oz./acre.	Apply 2-4 oz. every 7-21 days. For suppression only. Do not exceed 24 oz./acre.
6. SHOOT/STEM DISEASES		
a. Aerial/Shoot Blight ( <i>Phytophthora</i> spp.)	Apply 1-2 oz every 7-28 days.	Apply 0.5-1 oz. every 7-28 days.
7. SOIL-BORNE DISEASES (Directed Spray). For directed spray applications, utilize the following rates below.		
a. <i>Rhizoctonia solani</i>	Apply 1-4 oz. every 7-21 days.	Apply 0.5-2 oz. every 7-21 days.
b. <i>Sclerotium rolfsii</i>	Apply 1-4 oz. every 7-21 days.	Apply 0.5-2 oz. every 7-21 days.
c. <i>Fusarium</i> spp.	Apply 1-4 oz. every 7-21 days.	Apply 0.5-2 oz. every 7-21 days.
8. SOIL-BORNE DISEASES (Drench). See <b>ORNAMENTALS</b> section for additional drench directions.		

a. <i>Rhizoctonia solani</i>	Apply 0.2-0.9 oz/100 gal of water as a drench OR 1-2 pts/sq ft as a spray solution every 7-28 days.	Apply 0.1-0.5 oz./100 gal of water as a drench OR 1-2 pints per square foot surface area, every 7-28 days.
b. <i>Sclerotium rolfsii</i>	Apply 0.2-0.9 oz/100 gal of water as a drench OR 1-2 pts/sq ft as a spray solution every 7-28 days.	Apply 0.1-0.5 oz./100 gal of water as a drench OR 1-2 pints per square foot surface area, every 7-28 days.
c. <i>Fusarium</i> spp.	Apply 0.2-0.9 oz/100 gal of water as a drench OR 1-2 pts/sq ft as a spray solution every 7-28 days.	Apply 0.1-0.5 oz./100 gal of water as a drench OR 1-2 pints per square foot surface area, every 7-28 days.

**PLANT SAFETY:** Strobe™ 50WG has been shown to be safe when applied to the ornamental plants listed in Tables 2, 3, and 4. However, due to the large number of genera, species, and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to Strobe™ 50WG. Neither the manufacturer nor the seller has determined whether or not Strobe™ 50WG can be used safely on genera, species, or varieties of ornamental and nursery plants not specified on this label. The professional user should conduct small scale testing to ensure plant safety prior to broad-scale commercial use on plant genera and species not listed in this label. In addition, do not tank mix Strobe™ 50WG with other fungicides, insecticides, herbicides, fertilizers, adjuvants, etc, unless local experience indicates that the tank mix is safe to ornamental plants. Do not apply Strobe™ 50WG to certain apple, crabapple, or cherry trees due to possible phytotoxicity. Further, do not use spray equipment that has applied Strobe™ 50WG for use in these sensitive crops due to possible phytotoxicity from residue remaining in the sprayer.

**Tolerant Ornamental Plants:** Strobe™ 50WG has been found to be safe when applied to the plants listed in Tables 2, 3, and 4 when applied according to labeled application methods, rates, and timings.

**TABLE 2**  
**Tolerant Plants Listed by Botanical Name**

BOTANICAL NAME	COMMON NAME	DISEASES
<i>Abelia</i> spp.	Abelia	2
<i>Abies fraseri</i>	Fraser fir	1, 4
<i>Acer palmatum</i>	Japanese maple	2
<i>Acer saccharum</i>	Sugar maple	2
<i>Ageratum</i> spp.	Floss Flower	3, 4
<i>Ageratum</i> spp.	Pussy's-Foot	3, 4
<i>Aglaonema</i> spp.	Chinese evergreen	2, 4
<i>Ajuga reptans</i>	Bugle, Bugleweed	3
<i>Antirrhinum</i> spp.	Snap Dragon	2d, 3, 4
<i>Aphelandra</i> spp.	Zebra Plant	2
<i>Artemisia</i> spp.	Mugwort, Sagebrush	2
<i>Artemisia</i> spp.	Wormwood	2
<i>Aster</i> spp.	Aster, Starwort	4
<i>Aucuba japonica</i>	Japanese aucuba, Japanese laurel	7
<i>Begonia</i> spp. (except Rieger begonia)	Begonia	2, 3
<i>Berberis thunbergii</i>	Barberry	3, 4
<i>Betula nigra</i>	River birch	3, 4
<i>Bougainvillea</i> spp.	Bougainvillea	2
<i>Brassaia actinophylla</i>	Rubber tree, Umbrella tree	2, 7
<i>Buddleia davidii</i>	Buddleia, Butterfly bush	2
<i>Buxus sempervirens</i>	Boxwood	2, 7a
<i>Caladium</i> spp.	Caladium	7
<i>Camellia japonica</i>	Camellia	2



<i>Caryota urens</i>	Sago Palm	2, 7
<i>Catharanthus roseus</i>	Vinca	2
<i>Ceanothus sanguineus</i>	Wild lilac	3
<i>Ceanothus</i> spp.	Ceanothus, California lilac, Snowball	3
<i>Cedrus atlantica</i>	Atlas cedar	2, 4
<i>Cedrus</i> spp.	White cedar	2, 4
<i>Cercis occidentalis</i>	Western redbud	2
<i>Chamaecyparis</i> spp.	Cypress, Leyland cypress	1
<i>Chamaecyparis pisifera</i>	Sawara cypress	1
<i>Chamaedora elegans</i>	Parlor palm	7
<i>Chrysanthemum</i> spp.	Chrysanthemums	2, 7c
<i>Clethra alnifolia</i>	Clethra, White alder	2
<i>Cornus</i> spp.	Dogwood, Pink dogwood, Flowering dogwood	2b, 3
<i>Cornus florida</i>	Dogwood	2b, 3
<i>Cortaderia selloana</i>	Pampas grass	3
<i>Cotoneaster adpressus</i>	Creeping cotoneaster	7
<i>Cotoneaster horizontalis</i>	Cotoneaster - variegated rockspray	7
<i>Cyclamen</i> spp.	Cyclamen	7c
<i>Cyperus</i> spp.	Cyperus	1
<i>Delphinium</i> spp.	Larkspur	2
<i>Dianthus caryophyllus</i>	Carnation	3, 4
<i>Dianthus</i> spp.	Pink	3, 4
<i>Dieffenbachia</i> spp.	Dumb Cane	2
<i>Diets iridiodes</i>	African iris, Butterfly iris	4c
<i>Digitalis</i> spp.	Foxglove	2, 3

<i>Epipremnum</i> spp.	Pothos	2
<i>Erica dareyensis</i>	Heather	2
<i>Euonymus alata</i>	Dwarf winged euonymus	2
<i>Euonymus alatus</i>	Burning bush	2
<i>Euonymus japonicus</i>	Evergreen euonymus	2
<i>Euphorbia</i> spp.	Poinsettia	2a
<i>Fatsia japonica</i>	Japanese fatsia, Paper plant	2
<i>Ficus</i> spp.	Fig	2
<i>Forsythia viridissima</i>	Forsythia	2
<i>Gaillardia</i> spp.	Blanket Flower	2
<i>Gardenia jasminoides</i>	Gardenia	3
<i>Geranium</i> spp.	Cranesbill	5b
<i>Gerbera jamesonii</i>	Gerber daisy, Transvaal daisy	3
<i>Hedera algeriensis</i>	Algerian ivy	2
<i>Hedera helix</i>	English ivy	2
<i>Hibiscus moscheutos</i>	Hibiscus	2, 3
<i>Hibiscus rosa-sinensis</i>	Hibiscus	2, 3
<i>Hibiscus syriacus</i>	Rose of Sharon	2, 3
<i>Hosta</i> spp.	Hosta	2
<i>Hydrangea macrophylla</i>	French hydrangea	2, 3
<i>Hydrangea</i> spp.	Hydrangea	2c, 3
<i>Ilex</i> spp.	Holly, Winterberry, Yaupon	3
<i>Impatiens</i> spp.1	Balsam, Impatiens1	2a, 7a
<i>Itea virginica</i>	Virginia willow	3, 4
<i>Juniperus procumbens</i>	Juniper	1a, 4
<i>Juniperus scopulorum</i>	Juniper	1a, 4

<i>Juniperus</i> spp.	Juniper	1a, 4
<i>Juniperus virginiana</i>	Red cedar	1a, 4
<i>Lagerstroemia indica</i>	Crapemyrtle	2, 3
<i>Laurus nobilis</i>	Laurel	3
<i>Liriope muscari</i>	Lily turf	2
<i>Lobularia maritima</i>	Sweet alyssum	7
<i>Magnolia grandiflora</i>	Southern magnolia	2
<i>Magnolia soulangiana</i>	Saucer magnolia	2
<i>Magnolia</i> spp.	Magnolia	2i
<i>Malus</i> spp.	Crabapple (See Table 4 for variety list)	2i
<i>Nandina domestica</i>	Nandina	2
<i>Nerium oleander</i>	Oleander, Rose bay	2
<i>Pelargonium</i> spp.	Geranium	3, 4, 5b
<i>Pennisetum alopecuroides</i>	Grass	2
<i>Peperomia</i> spp.	Baby rubber plant	2, 7
<i>Petunia</i> spp.	Petunia	6a
<i>Phalaris</i> spp.	Dwarf pampas grass	3
<i>Philodendron</i> spp.	Philodendron	2
<i>Phlox</i> spp.	Phlox	3
<i>Phoenix dactylifera</i>	Date palm	2, 7
<i>Phoenix roebelenii</i>	Roebelin's palm	2, 7
<i>Photinia glabra</i>	Red-tip photinia	2, 3, 4
<i>Picea abies</i>	Norway spruce	1
<i>Picea glauca</i>	White spruce	1
<i>Picea pungens</i>	Blue spruce	1
<i>Pieris japonica</i>	Japanese andromeda	2, 7

<i>Pinus muhgo</i>	Muhgo pine	1b, 4
<i>Pinus nigra</i>	Black pine	1b, 4
<i>Pinus silvestris</i>	Scotch pine	1, 4
<i>Pinus</i> spp.	Pine	1b, 4
<i>Pinus strobus</i>	Eastern white pine	1b, 4
<i>Pittosporum</i> spp.	Australian laurel	3,4
<i>Pittosporum tobira</i>	Mock orange	3, 4
<i>Plectranthus</i> spp.	Swedish ivy, Coleus	2
<i>Populus</i> spp.	Aspen Tree	2
<i>Potentilla</i> spp.	Cinquefoil	2
<i>Primula</i> spp.	Primrose	2
<i>Prunus pumila</i>	Cherry	2, 5
<i>Prunus</i> spp.	Flowering plum, Purple leaf plum	2, 5
<i>Pseudotsuga</i> spp.	Douglas fir	1, 4
<i>Pyrus calleryana</i>	Bradford's pear	3
<i>Quercus falcata</i>	Red oak	2, 3
<i>Quercus palustris</i>	Pin oak	2, 3
<i>Raphiolepis indica</i>	Indian hawthorn	2, 3, 4
<i>Rhododendron</i> spp.	Azaleas, Rhododendron	2b, 3, 6, 7
<i>Rhododendron</i> spp.	Glacier Azalea	2b, 3, 6, 7
<i>Rosa</i> spp.	Rose	2a, 3c, 4b
<i>Rosmarinus</i> spp.	Rosemary (prostrate)	2
<i>Rudbeckia hirta</i>	Black-eyed susan	2
<i>Salvia</i> spp.	Sage	3, 4
<i>Schlumbergera</i>	Holiday cactus	2, 7
<i>Sedum</i> spp.	Orpine, Stonecrop	2

Sempervivum spp.	Live-forever, House Leek	2
Setaria spp.	Ribbon-grass	2, 3
Spathiphyllum floribundium	Peace lily	2c, 7
Spirea bumalda	Spirea	3
Spirea japonica	Spirea	3
Syagrus romanzoffi anum	Queen palm	2
Tagetes spp.	Marigold	2a
Taxus baccata	Spreading yew	7
Thujaopsis spp.	Arborvitae	2
Thymus serphyllum	Creeping thyme	2
Tsuga spp.	Hemlock	4
Verbena spp.	Verbena, Vervain	3
Viburnum spp.	Viburnum	2, 3, 4
Vinca spp.	Periwinkle	2, 6a
Viola spp.1	Viola, Pansy <sup>1</sup>	2
Wiegela florida	Pink wiegela	2
Yucca spp.	Yucca	7
Zinnia spp.	Zinnia	2a, 3

<sup>1</sup>Do not exceed 2 oz./100 gallons on these species.

**TABLE 3**  
**Tolerant Plants Listed by Common Name**

COMMON NAME	BOTANICAL NAME
Abelia	Abelia spp.
Andromeda, Japanese	Pieris japonica
Arborvitae	Thujaopsis spp.
Aspen Trees	Populus spp.
Aster	Aster spp.
Aucuba, Japanese	Aucuba japonica
Azalea, Glacier	Rhododendron spp.
Azaleas	Rhododendron spp.
Balsam	Impatiens spp.
Barberry	Berberis thunbergii
Begonia (except Rieger Begonia)	Begonia spp.
Birch, River	Betula nigra
Black-Eyed Susan	Rudbeckia hirta
Blanket Flower	Gaillardia spp.
Bougainvillea	Bougainvillea spp.
Boxwood	Buxus sempervirens
Buddleia	Buddleia davidii
Bugle	Ajuga reptans

COMMON NAME	BOTANICAL NAME
Bugleweed	Ajuga reptans
Burning Bush	Euonymus alatus
Butterfly Bush	Buddleia davidii
Cactus, Holiday	Schlumbergera
Caladium	Caladium spp.
Camellia	Camellia japonica
Carnation	Dianthus caryophyllus
Ceanothus	Ceanothus spp.
Cedar, Atlas	Cedrus atlantica
Cedar, Red	Juniperus virginiana
Cedar, White	Cedrus spp.
Cherry	Prunus pumila
Christmas Trees (see Fraser fir, Scotch pine and Douglas fir)	
Chrysanthemum	Chrysanthemum spp.
Cinquefoil	Potentilla spp.
Clethra	Clethra alnifolia
Coleus	Plectranthus spp.

Cotoneaster, Creeping	Cotoneaster adpressus
Cotoneaster, Variegated Rockspray	Cotoneaster horizontalis
Crabapple (See Table 4 for variety list)	Malus spp.
Cranesbill	Geranium spp.
Crapemyrtle	Lagerstroemia indica
Cyclamen	Cyclamen spp.
Cyperus	Cyperus spp.
Cypress, Sawara	Chamaecyparis pisifera
Cypress, Leyland	Chamaecyparis spp.
Daisy, Gerber	Gerbera jamesonii
Daisy, Transvaal	Gerbera jamesonii
Dogwood	Cornus spp.
Dogwood	Cornus florida
Dogwood, Pink	Cornus spp.
Dumbcane	Dieffenbachia spp.
Euonymus, Dwarf Winged	Euonymus alata
Euonymus, Evergreen	Euonymus japonicus
Evergreen, Chinese	Aglaonema spp.
Fatsia, Japanese	Fatsia japonica

Fig	Ficus spp.
Fir, Douglas	Pseudotsuga spp.
Fir, Fraser	Abies fraseri
Floss Flower	Ageratum spp.
Forsythia	Forsythia viridissima
Foxglove	Digitalis spp.
Gardenia	Gardenia jasminoides
Geranium	Pelargonium spp.
Grass	Pennisetum alopecuroides
Grass, Dwarf Pampas	Phalaris spp.
Grass, Pampas	Cortaderia selloana
Hawthorn, Indian	Raphiolepis indica
Heather	Erica dareyensis
Hemlock	Tsuga spp.
Hibiscus	Hibiscus moscheutos
Hibiscus	Hibiscus rosa-sinensis
Holly	Ilex spp.
Hosta	Hosta spp.
House Leek	Sempervivum spp.
Hydrangea	Hydrangea spp.

Hydrangea, French	<i>Hydrangea macrophylla</i>
Impatiens <sup>1</sup>	<i>Impatiens</i> spp. <sup>1</sup>
Iris, African	<i>Diets iridiodes</i>
Iris, Butterfly	<i>Diets iridiodes</i>
Ivy, Algerian	<i>Hedera algeriensis</i>
Ivy, English	<i>Hedera helix</i>
Ivy, Swedish	<i>Plectranthus</i> spp.
Juniper	<i>Juniperus procumbens</i>
Juniper	<i>Juniperus scopulorum</i>
Juniper	<i>Juniperus</i> spp.
Larkspur	<i>Delphinium</i> spp.
Laurel	<i>Laurus nobilis</i>
Laurel, Australian	<i>Pittosporum</i> spp.
Laurel, Japanese	<i>Aucuba japonica</i>
Lilac, California	<i>Ceanothus</i> spp.
Lilac, Wild	<i>Ceanothus sanguineus</i>
Lily, Peace	<i>Spathiphyllum floribundium</i>
Lily Turf	<i>Liriope muscari</i>
Live-Forever	<i>Sempervivum</i> spp.
Magnolia	<i>Magnolia</i> spp.

Magnolia, Saucer	<i>Magnolia soulangiana</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>
Maple, Japanese	<i>Acer palmatum</i>
Maple, Sugar	<i>Acer saccharum</i>
Marigold	<i>Tagetes</i> spp.
Mock Orange	<i>Pittosporum tobira</i>
Mugwort	<i>Artemisia</i> spp.
Nandina	<i>Nandina domestica</i>
Oak, Pin	<i>Quercus palustris</i>
Oak, Red	<i>Quercus falcata</i>
Oleander	<i>Nerium oleander</i>
Orpine	<i>Sedum</i> spp.
Palm, Date	<i>Phoenix dactylifera</i>
Palm, Parlor	<i>Chamaedora elegans</i>
Palm, Queen	<i>Syagrus romanzofianum</i>
Palm, Roebelin's	<i>Phoenix roebelenii</i>
Palm, Sago	<i>Caryota urens</i>
Pansy <sup>1</sup>	<i>Viola</i> spp. <sup>1</sup>
Paper Plant	<i>Fatsia japonica</i>
Pear, Bradford	<i>Pyrus calleryana</i>
Periwinkle	<i>Vinca</i> spp.
Petunia	<i>Petunia</i> spp.



Philodendron	Philodendron spp.
Phlox	Phlox spp.
Photinia, Red-Tip	Photinia glabra
Pine	Pinus spp.
Pine, Black	Pinus nigra
Pine, Eastern White	Pinus strobus
Pine, Muhgo	Pinus muhgo
Pine, Scotch	Pinus sylvestris
Pink	Dianthus spp.
Plum, Flowering	Prunus spp.
Plum, Purple Leaf	Prunus spp.
Poinsettia	Euphorbia spp.
Pothos	Epipremnum spp.
Primrose	Primula spp.
Pussy's-Foot	Ageratum spp.
Redbud, Western	Cercis occidentalis
Rhododendron	Rhododendron spp.
Ribbon-Grass	Setaria spp.
Rose of Sharon	Hibiscus syriacus
Rose	Rosa spp.
Rose Bay	Nerium oleander
Rosemary (Prostrate)	Rosmarinus spp.

Rubber Plant, Baby	Peperomia spp.
Rubber Tree	Brassaia actinophylla
Sage	Salvia spp.
Sagebrush	Artemisia spp.
Snap Dragon	Antirrhinum spp.
Snowball	Ceanothus spp.
Spirea	Spirea bumalda
Spirea	Spirea japonica
Spruce, Blue	Picea pungens
Spruce, Norway	Picea abies
Spruce, White	Picea glauca
Starwort	Aster spp.
Stonecrop	Sedum spp.
Sweet Alyssum	Lobularia maritime
Thyme, Creeping	Thymus serpyllum
Umbrella Tree	Brassaia actinophylla
Verbena	Verbena spp.
Vervain	Verbena spp.
Viburnum	Viburnum spp.
Vinca	Catharanthus roseus
Viola	Viola spp.
White Alder	Clethra spp.
Wiegela, Pink	Wiegela florida

Willow, Virginia	Itea virginica
Winterberry	Ilex spp.
Wormwood	Artemisia spp.
Yaupon	Ilex spp.
Yew, Spreading	Taxus baccata

Yucca	Yucca spp.
Zebra Plant	Aphelandra spp.
Zinnia	Zinnia spp.

<sup>1</sup>Do not exceed 2 oz/100 gallons on these species.

**TABLE 4**  
**Tolerant Varieties of Crabapple Species (Genus Malus)**  
**Tolerant Varieties of Malus**

Arkansas Black	Eleyi	Mary Potter	seiboldii
atrosanguinea	Enterprise	Molten Lava	Selkirk
baccata	Evereste	New Centennial	Sentinel
baccata var. jackii	Eyelynn	Ormiston Roy	Silver Moon
baccata var. mandshurica	floribunda	Pink Satin	Silverdrift
Callaway	Gloriosa	Prairie Maid	Sinai Fire
Candymint Sargent	Golden Delicious	Prairifire	Spectablis
Christmas Holly	Golden Raindrops	Profusion	Sugar Tyme
coronaria	Hopa	pumila	Van Eselatine
David	Indian Magic	Ralph Shay	White Angel
Dolgo	Island	Red Jade	Williams Pride
Donald Wyman	Katherine	Red Baron	Winter Gold
Dorothea	Lancelot	Sargent	Yellow Delicious
Doubloons	Louisa	sargentii	zumi Calocarpa

**TABLE 5**  
**Intolerant Plants†**

COMMON NAME	BOTANICAL NAME
Apple	Malus domestica
Crabapple - Flame variety	Malus spp.
Crabapple - Brandywine variety	Malus spp.
Crabapple - Novamac variety	Malus spp.
Cherry, Flowering-Yoshino variety	Prunus yedoensis
Leatherleaf Fern	Rumohra adianformis and other species

†Do not apply Strobe™ 50WG to these species or varieties

**CONIFERS INCLUDING CHRISTMAS TREES,  
COMMERCIAL PRODUCTION ROSES**

Strobe™ 50WG may be used to control certain diseases on conifers in production (indoor and outdoor) and landscape situations.

Please see the **ORNAMENTALS** section for more detailed directions for use in landscape situations.

For 4 oz. pack size: See **Strobe™ 50WG Rate Conversion Chart Specifically for 4 oz. Pack Size** below.

Crop	Target Diseases	Use Rate oz. product/A (lbs. a.i./A)	Remarks
Conifers including Christmas Trees	<p>Diplodia tip blight (Diplodia pinea)</p> <p>Lophodermium needlecast (Lophodermium pinastri)</p> <p>Swiss needlecast (Phaeocryptopus gaumannii)</p>	3.2-8.0 (0.10-0.25)	<p><b>Integrated Pest (Disease) Management:</b> Strobe™ 50WG should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum may overwinter.</p> <p><b>Resistance Management:</b> Do not apply more than four sequential applications of Strobe™ 50WG before alternating with a fungicide that is not in Group 11. Do not make more than eight applications of Strobe™ 50WG per acre per year.</p> <p><b>Application Directions:</b> Strobe™ 50WG applications should begin prior to disease development and continue throughout the season at intervals of 7-21 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at labeled rates.</p>
<b>Specific Use Restrictions:</b> Do not apply more than 4.0 pounds product/acre/season (2.0 lbs. a.i./A).			

<p>Roses (Commercial Rose Production)</p>	<p>Downy Mildew (Peronospora sparsa) Powdery Mildew (Sphaerotheca pannosa) Rust (Phragmidium mucronatum, P. tuberculatum, and other Phragmidium spp.) Septoria Leaf Spot (Septoria rosea) Alternaria Leaf Spot (Alternaria alternata)</p>	<p>1.6-8.0 (0.05-0.25)</p>	<p>Integrated Pest (Disease) Management: Strobe™ 50WG should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, winter and/or spring pruning, plant residue management, and proper timing and placement of irrigation. Resistance Management: Do not make more than four (4) sequential applications of Strobe™ 50WG before alternating with a fungicide that is not in Group 11. Do not make more than eight applications per acre per year. Application Directions: Strobe™ 50WG application should begin prior to disease development and continue throughout the season at intervals of 7-21 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at labeled rates. Plant Safety: Strobe™ 50WG has been shown to be safe when applied to roses. However, all varieties of roses have not been evaluated for safety. Small scale variety safety testing must be conducted to ensure plant safety prior to large scale application. In addition, do not tank mix Strobe™ 50WG with other fungicides, insecticides, herbicides, fertilizer, etc. unless local experience indicates that the tank mix is safe to roses.</p>
<p>Specific Use Restrictions: Do not apply more than 4.0 lbs product/acre/season (2.0 lbs. a.i./A).</p>			

### Strobe™ 50WG Rate Conversion Chart

Oz. Product/A	Lb. a.i./A	Treated Acres/Lb. Product
0.9	0.03	17.8
1.6	0.05	10.0
2.0	0.06	8.0
2.2	0.07	7.3
2.5	0.08	6.4
3.0	0.09	5.3
3.2	0.10	5.0
3.5	0.11	4.6
4.0	0.13	4.0
4.3	0.135	3.7
4.5	0.14	3.6
5.1	0.16	3.1
5.5	0.17	2.9
6.0	0.19	2.7

Oz. Product/A	Lb. a.i./A	Treated Acres/Lb. Product
6.4	0.20	2.5
7.0	0.22	2.3
7.5	0.23	2.1
8.0	0.25	2.0
8.5	0.27	1.9
9.0	0.28	1.8
9.6	0.30	1.7
10.0	0.31	1.6
10.5	0.33	1.5
11.0	0.34	1.5
11.5	0.36	1.4
12.0	0.38	1.3
12.5	0.39	1.3
12.8	0.40	1.3

## Strobe™ 50WG Rate Conversion Chart Specifically for 4 oz. Pack Size

(For use with 4 oz. package size only)

Oz. Product/A	Oz. Product/1000 sq. ft.	Treated Acres/4 oz. Product
1.0	0.025	4.0
1.5	0.035	2.7
2.0	0.05	2.0
2.5	0.06	1.6
3.0	0.07	1.3
3.5	0.08	1.1
4.0	0.09	1.0
4.5	0.1	0.9
5.0	0.11	0.8
5.5	0.13	0.73

Oz. Product/A	Oz. Product/1000 sq. ft.	Treated Acres/4 oz. Product
6.0	0.14	0.67
6.5	0.15	0.62
7.0	0.16	0.57
7.5	0.17	0.53
8.0	0.18	0.5
8.7	0.2	0.46
13.1	0.3	0.31
17.4	0.4	0.23
26.1	0.6	0.15
30.5	0.7	0.13

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, cover spill with moist sand, soil, or sawdust. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, 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 HANDLING:

**Nonrefillable Container (flexible-bag-all weights):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with aluminum tris only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.



## LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions 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, it is impossible to eliminate all risk associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc. election, the replacement of product.

**QUALI-PRO**

GROUP 11 FUNGICIDE

# Strobe™ 50WG

*Broad Spectrum Fungicide*  
for Control of Plant Diseases in Turf and Ornamentals

Manufactured for:



**CONTROL  
SOLUTIONS**

5903 Genoa-Red Bluff Road  
Pasadena, TX 77507-1041

EPA Reg. No.: 53883-343  
EPA Est. No.: 53883-TX-002

EPA 062414/REV A

ACTIVE INGREDIENT:	% BY WEIGHT
Azoxystrobin:	50.0%
methyl (2E)-2-(2-[[6-(2-cyanophenoxy) pyrimidin-4-yl]oxy]phenyl)-3-methoxyacrylate*	
OTHER INGREDIENTS:	50.0%
TOTAL	100.0%

Contains 0.5 lb. active ingredient per pound of product.

\*IUPAC

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary Statements and  
Directions for Use inside booklet.

# QUALI-PRO

GROUP

11

FUNGICIDE

# Strobe™ 50WG

*Broad Spectrum Fungicide for Control of Plant Diseases in Turf and Ornamentals*

**ACTIVE INGREDIENT:**

**% BY WEIGHT**

**Azoxystrobin:**

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pyrimidin-4-yl]oxy]phenyl)-3-methoxyacrylate\*.....50.0%

**OTHER INGREDIENTS:**.....50.0%

**TOTAL**.....100.0%

Contains 0.5 lb. active ingredient per pound of product.

\*IUPAC

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary  
Statements and Directions  
for Use inside booklet.



FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.

Manufactured for:

**CSI**  
**CONTROL**  
**SOLUTIONS**

**EPA Reg. No.: 53883-343**  
**EPA Est. No.: 53883-TX-002**

5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

**Net Contents: 6 lbs.**

EPA 062414/REV A

# QUALI-PRO

GROUP	11	FUNGICIDE
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# Strobe™ 50WG

*Broad Spectrum Fungicide for Control of Plant Diseases in Turf and Ornamentals*

ACTIVE INGREDIENT:	% BY WEIGHT
<b>Azoxystrobin:</b> methyl (2E)-2-(2-[[6-(2-cyanophenoxy)pyrimidin-4-yl]oxy]phenyl)-3-methoxyacrylate* .....	50.0%
<b>OTHER INGREDIENTS:</b> .....	50.0%
<b>TOTAL</b> .....	100.0%

Contains 0.5 lb. active ingredient per pound of product.  
\*IUPAC

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary Statements and Directions for Use inside booklet.



EPA Reg. No.: 53883-343  
EPA Est. No.: 53883-TX-002

Manufactured for:



5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

**Net Contents: 6 lbs.**

EPA 062414/REV A

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<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
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<p><b>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</b> You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.</p>	

### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** HARMFUL IF SWALLOWED, AND ABSORBED THROUGH SKIN. CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category **A** on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber
- Shoes plus socks

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

#### **ENGINEERING CONTROLS STATEMENT**

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.

<b>USER SAFETY RECOMMENDATIONS</b>	
<b>Users should:</b>	
<ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash thoroughly with soap and water after handling.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</li> </ul>	

## ENVIRONMENTAL HAZARDS

Strobe™ 50WG is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Strobe™ 50WG can be persistent for several months or longer.

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 water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### GROUND WATER ADVISORY:

Strobe™ 50WG and a degradate of Strobe™ 50WG are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

## SURFACE WATER ADVISORY

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of Strobe™ 50WG and a degradate of Strobe™ 50WG from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Notify state and/or federal authorities immediately if you observe any adverse environmental effects due to the use of this product.

## PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

### 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), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during restricted-entry interval (REI) of 4 hours.** 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 such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks

The Non-Agricultural Use Requirements box applies when this product is used to control diseases on turf and ornamentals on golf courses, lawns, and landscapes areas around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas, and athletic fields.

### **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. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because some states may require a more restrictive re-entry interval, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated is dry.

### **FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

#### **PRODUCT INFORMATION**

Strobe™ 50WG is a broad spectrum preventative fungicide with systemic and curative properties and can be used for the control of many important plant diseases.

Strobe™ 50WG may be applied as a foliar spray, in alternating spray programs, or in tank mixes with other registered pesticides. All applications must be made according to the use directions found on this label and the labels of tank mix products.

Do not graze or feed clippings from treated turf areas to animals.

#### **SPRAY DRIFT PRECAUTIONS AND PHYTOXICITY NOTICE**

**Attention:** AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees and apple fruit, as Strobe™ 50WG is extremely phytotoxic to certain apple varieties. Do not spray Strobe™ 50WG where spray drift will reach apple trees. Do not spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your state extension agent for spray drift prevention guidelines in your area. Do not use spray equipment which has been previously used to apply Strobe™ 50WG to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity. Avoiding spray drift is the responsibility of the applicator.

Strobe™ 50WG has demonstrated some phytotoxic effects when mixed with products that are formulated as emulsifiable concentrates (ECs). These effects are enhanced if applications are made under cool, cloudy conditions, and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone have also contributed to phytotoxicity.

#### **INTEGRATED PEST MANAGEMENT (IPM)/DISEASE MANAGEMENT**

Integrate Strobe™ 50WG into an overall disease and pest management strategy whenever the use of a fungicide is required. Follow cultural practices that are known to reduce disease development. Consult your local authorities for additional treatment programs that are compatible with the principles of Integrated Pest Management (IPM), which include the use of disease-resistant turf varieties, cultural practices, pest scouting, disease forecasting systems, etc.

#### **RESISTANCE MANAGEMENT**

Strobe™ 50WG is a Group 11 fungicide. The mode of action is the inhibition of the Qo (quinone outside) site within the electron transport system, as well as disruption of membrane synthesis by blocking demethylation [Group 11]. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development can't be predicted, use of this product should conform to resistance management strategies established for turf and its use area. Consult your local or state agricultural authorities for resistance management strategies that are complimentary to those in this label.

Resistance management strategies include alternating and/or tank mixing with products having different modes of action or limiting the total number of applications per season. Follow the crop specific resistance management recommendations in the directions for use below. If no resistance recommendation is specified on number of applications is specified in the directions for use on turf, follow the recommendations in the table below.

If planned total number of fungicide applications is:	1	2	3	4	5	6	7	8	9	10	11	12
Recommended Solo QoI Fungicide Sprays:	1	1	2	2	2	2	2	3	3	3	3	4
Recommended QoI Fungicide Sprays in mixture (tank mix or formulated):	1	2	2	2	2	3	3	4	4	5	5	6

In situations requiring multiple sprays, develop season-long spray programs for Group 11 (QoI) Fungicides. In turf where two sequential Group 11 Fungicide applications are made, they should be alternated with two or more applications of a fungicide that is not in Group 11. If more than 12 applications are made, observe the following guidelines:

- When using a QoI Fungicide as a solo product, the number of applications should be no more than 1/3 (33%) of the total number of fungicide applications per season.
- For QoI mixes in programs in which tank mixes or premixes of QoI with mixing partners of a different modes of action are utilized, the number of QoI-containing applications should be no more than 1/2 (50%) of the total number of fungicide applications per season.
- In programs in which applications of QoI are made with both solo products and mixtures, the number of QoI-containing applications should be no more than 1/2 (50%) of the total number of fungicide applied per season.

If a Group 11 Fungicide is applied, do not make another application with a Group 11 Fungicide for at least 3 weeks.

### SPRAYING AND MIXING

Strobe™ 50WG may be applied with all types of spray equipment commonly used for making ground applications. Do not apply through any type of ultra-low volume (ULV) spray system. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when environmental conditions conducive to disease exist. Apply Strobe™ 50WG in sufficient water volume for adequate coverage and canopy penetration.

#### Spray Solution Preparation

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of Strobe™ 50WG to the tank, allowing time for good dispersion, then add an adjuvant if suggested. If tank mixes are required, add products to the spray tank in the following order: Strobe™ 50WG, then other WG or dry flowable formulations, then wettable powders and flowable (aqueous suspensions) last. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the entire spraying operation. Do not allow the spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Thoroughly clean sprayers immediately after application.

Strobe™ 50WG is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides, and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or other authorities for compatibility information.

Strobe™ 50WG is incompatible with many fertilizers when low water volumes are used for in-furrow applications. Cold temperatures and water quality exacerbate these compatibility problems. Conduct a physical compatibility test as described below. Do not combine Strobe™ 50WG in the spray tank with pesticides, surfactants, or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious under your conditions of use. If physical compatibility is unknown, follow the procedure outlined in the **Physical Compatibility Test** section of the label below.



**Physical Compatibility Test:** Use a suitable container (1 pint) and mix a small amount of spray solution by adding each component in the order and ratio as required for making large amounts of the tank mix solution. Stir the contents and allow them to settle for 20 minutes. Solutions that stay in suspension or can be remixed readily are considered physically compatible. Increased compatibility may result if a buffering agent is used.

## **CHEMIGATION INSTRUCTIONS**

### **Applications Through Sprinkler and Drip Chemigation Systems**

**Spray Preparation:** Chemical tank and injector system must be thoroughly cleaned. Flush system with clean water.

#### **Use Precautions for Sprinkler and Drip Irrigation Applications**

**Drip Irrigation:** Strobe™ 50WG may be applied through drip irrigation systems to potted ornamentals or to bedded, field-grown ornamentals for soil-borne disease control. Apply 2-16 oz. (0.0625-0.5 lb. a.i./A) Strobe™ 50WG per acre as a preventative disease application. Ensure that the soil or potting media has adequate moisture capacity prior to drip application.

Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, delay subsequent irrigation (water only) for at least for 24 hours following a drip application.

**Sprinkler Irrigation:** Apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system except as specified on this label.

Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment. In general, use the least amount of water required for proper distribution and coverage. If stationary systems (solid set, handlines or wheelines other than continuous-move) are used, inject this product into no more than the last 20-30 minutes of the set. Do not apply when winds are greater than 10-15 mph to avoid drift or wind skips. Do not apply when wind speed favors drift beyond the area intended for treatment.

Plant injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform treated water. Thorough coverage of foliage is required for good control. Maintain good agitation during the entire application period.

If you have questions about calibration, contact a State Extension Service specialist, equipment manufacturers, or other experts.

#### **System Requirements**

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

## TURF

Strobe™ 50WG can be used for control of certain pathogens causing foliar, stem, and root diseases including leaf and stem blights, leaf spots, patch diseases, mildew, molds and rusts of turfgrass plants. Use Strobe™ 50WG to control certain diseases on golf courses, lawns and landscape areas around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas and athletic fields.

**Integrated Pest (Disease) Management (IPM):** Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Cultural practices such as proper choice of turf variety, nutrient management, proper cutting height, thatch management, and proper watering, drainage, and moisture stress management should be integrated with the use of fungicides to increase turf vigor and reduce the susceptibility to disease. Immunoassay detection kits and extension service diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

**Resistance Management:** Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. Apply Strobe™ 50WG in a tank mix or alternation program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Since Strobe™ 50WG is a strobilurin fungicide, avoid alternation with other strobilurins. Do not apply more than two sequential Strobe™ 50WG applications for Gray leaf spot and *Pythium* spp. control. For all other diseases when Gray leaf spot and *Pythium* spp. are not present, do not apply more than three sequential applications of Strobe™ 50WG.

**Application Directions:** Apply Strobe™ 50WG prior to disease development. Mix Strobe™ 50WG with the required amount of water and apply as a dilute spray application in 2-4 gallons of water per 1000 square feet (87-174 gallons per acre). Repeat applications at specified intervals for as long as required. For spot treatments, use 0.2 oz. Strobe™ 50WG per 1 to 2 gallons of water. Do not apply more than 10 lbs. product/acre/year (3.7 oz. product/1000 square feet/year). Make applications by ground only.

**For use with soil injection applications:** Apply Strobe™ 50WG through a liquid fungicide injector for the control of ectrotrophic root diseases such as summer patch and take-all patch. Use Strobe™ 50WG only in liquid injection equipment specifically designated for pesticide use.

Apply Strobe™ 50WG at 0.2 to 0.4 oz. per 1000 sq. ft. Spray carrier volume should fall within 30-150 gal. of water per 1000 sq. ft. Use injection hole spacing of 1 inch by 1 inch for optimum control. Injection depth should be no greater than 2 inches. Optimum results occur at one inch depth. Application timing should follow disease control strategies used for normal broadcast spray programs.

**For use in the establishment of turfgrass from seed or in overseeding of dormant turfgrass:** Use Strobe™ 50WG for control of certain turfgrass diseases associated with turfgrass establishment from seed. Strobe™ 50WG may also be used during overseeding of dormant turfgrass. Strobe™ 50WG may be safely applied before or after seeding or at seedling germination and emergence to ryegrass, bentgrass, bluegrass, and fescue turfgrass types. Optimum application timing is during seeding. See **Application Directions** section above.

**Rate Ranges:** Use the shorter specified application interval and/or use the higher specified rate when prolonged favorable disease conditions exist.

**Dollar Spot:** Strobe™ 50WG does not control dollar spot. During periods of dollar spot pressure, always mix Strobe™ 50WG with a product containing chlorothalonil or other dollar spot control fungicides. Strobe™ 50WG is compatible in tank mixes with many other fungicides that control dollar spot. Follow directions found under **SPRAYING AND MIXING** section of this label.

**DIRECTIONS FOR APPLICATION FOR TURF DISEASES**

Target Diseases	Use Rate (oz. product per 1000 sq. ft.)	Application Interval (days)	Remarks*
Anthracnose ( <i>Colletotrichum graminicola</i> )	0.2-0.4	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Brown Patch ( <i>Rhizoctonia solani</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Cool Weather Brown Patch Yellow Patch ( <i>Rhizoctonia cerealis</i> )	0.4	28	Make one or two applications in fall or when conditions are favorable for disease development.
Fairy Ring ( <i>Lycoperdon</i> spp., <i>Agrocybe pediades</i> , and <i>Bovistra plumbea</i> )	0.4	28	Apply as soon as possible after fairy ring symptoms develop. Apply only in 4 gallons water per 1000 square feet (174 gallons/acre). Add the recommended rate of a wetting agent to the final spray. Severely damaged or thin turf may require reseeding. Fairy ring symptoms may take 2 to 3 weeks to disappear following application. Reapplication after 28 days may be required in some cases.
Fusarium Patch ( <i>Microdochium nivale</i> )	0.2-0.4	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	0.2-0.4	14-28	Begin applications before disease is present and continue applications while conditions are favorable for disease development.
Gray Snow Mold Typhula blight ( <i>Typhula incarnata</i> )	0.7 (when making a single application) 0.4 (when making two applications)	single application 10-28	Make a single application of 0.7 oz. or two applications of 0.4 oz. spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as a product containing chlorothalonil, may enhance control under severe disease pressure.
Leaf Rust Stem Rust Stripe Rust ( <i>Puccinia</i> spp.)	0.2-0.4	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Leaf spot ( <i>Bipolaris sorokiniana</i> )	0.2-0.4	14-21	Apply when conditions are favorable for disease development.
Melting Out ( <i>Drechslera poae</i> )	0.2-0.4	14-21	Apply when conditions are favorable for disease development.
Necrotic Ring Spot ( <i>Leptosphaeria korrae</i> )	0.4	14-28	Apply when conditions are favorable for disease development.

(continued)

Target Diseases	Use Rate (oz. product per 1000 sq. ft.)	Application Interval (days)	Remarks*
Pink Patch ( <i>Limonomyses roseipellis</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Pink Snow Mold ( <i>Microdochium nivale</i> )	0.7 (when making a single application) 0.4 (when making two applications)	single application 10-28	Make a single application of 0.7 oz. or two applications of 0.4 oz. spaced 10-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as a product containing chlorothalonil, may enhance control under severe disease pressure.
Powdery Mildew ( <i>Erysiphe graminis</i> )	0.2-0.4	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Pythium Blight Pythium Root Rot ( <i>Pythium aphanidermatum</i> , <i>Pythium</i> spp.)	0.4	10-14	Use preventatively. Begin applications before disease is present. During periods of prolonged favorable conditions, treat on the 10-day application interval. For use on newly seeded as well as established turf.
Red Thread ( <i>Laetisaria fuciformis</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Rhizoctonia Large Patch ( <i>Rhizoctonia solani</i> )	0.2-0.4	14-28	Make one or two applications in fall or when conditions are favorable for disease development.
Southern Blight ( <i>Sclerotium rolfsii</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Spring Dead Spot ( <i>Leptosphaeria korrae</i> ) or ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> ) or ( <i>Ophiosphaerella herpotricha</i> )	0.4	14-28	Apply 1 or 2 applications approximately one month prior to bermudagrass dormancy. 1/4" to 1/2" of irrigation directly after application is suggested. Reapply 14 to 28 days later.
Summer Patch ( <i>Magnaporthe poae</i> )	0.2-0.4	14-28	Apply when conditions are favorable for disease development.
Take-all patch ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )	0.4	28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development. Make two applications (28 days apart) in the spring and two applications (28 days apart) in the fall.
Zoysia Patch ( <i>Rhizoctonia solani</i> and/or <i>Gaeumannomyces incurstana</i> )	0.2-0.4	14-28	Apply 1 or 2 applications approximately one month prior to zoysiagrass dormancy. Reapply 14 to 28 days later.

(continued)

\*Do not apply more than two sequential applications of Strobe™ 50WG for control of Gray leaf spot and *Pythium* spp. For all other diseases when Gray leaf spot and *Pythium* spp. are not present, do not apply more than three sequential applications of Strobe™ 50WG.

#### Strobe™ 50WG Rate Conversion Chart for Turf

Ounces Product Per 1000 Sq. Ft.	Ounces A.I. Per 1000 Sq. Ft.	Ounces Product Per Acre	Pounds Product Per Acre
0.20	0.10	8.7	0.5
0.30	0.15	13.1	0.8
0.40	0.20	17.4	1.1
0.70	0.35	30.5	1.9

#### Amount of Strobe™ 50WG to Mix 100 Gallons for Turf Applications

Use Rate	Spray Volume (gallons/1000 square feet)		
	2.0 gals.	3.0 gals.	4.0 gals.
0.2 oz.	10 oz.	6.7 oz.	5 oz.
0.4 oz.	20 oz.	13.3 oz.	10 oz.
0.7 oz.	35 oz.	23.3 oz.	17.5 oz.

#### ORNAMENTALS

Strobe™ 50WG is used for control of certain pathogens causing foliar, aerial, and root diseases, including leaf, tip, and flower blights, leaf spots, downy mildew, powdery mildew, anthracnose, and rusts of ornamental plants. Strobe™ 50WG may be used to control certain diseases of container, bench, flat, plug, bed or field-grown ornamentals in greenhouses, shade houses, outdoor nurseries, retail nurseries, and other landscape areas.

**Integrated Pest (Disease) Management:** Strobe™ 50WG should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, winter and/or spring pruning, plant residue management, and proper timing and placement of irrigation. Immunoassay detection kits and diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

**Resistance Management:** Some ornamental disease pathogens are known to have developed resistance to fungicides used repeatedly for their control. Apply Strobe™ 50WG in an alternation or tank mix program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Do not make more than three (3) sequential applications of Strobe™ 50WG before alternating with a fungicide of a different mode of action. A sound resistance management program would include blocks of three Strobe™ 50WG applications separated by blocks of two alternate fungicide applications. Do not alternate Strobe™ 50WG Fungicide with other strobilurin fungicides.

**Application Directions:** Apply Strobe™ 50WG as a broadcast or banded spray targeted at the foliage or crown of the plant. Apply to runoff in sufficient water to ensure complete coverage of the target plant. Good coverage and wetting of foliage is necessary for best control. Refer to the label for specific use directions for control of certain diseases. Repeat applications at specified intervals (plus alternations for resistance management) for as long as required. Make applications by ground only.

Strobe™ 50WG applications should begin prior to disease development and continue throughout the season at specified intervals following resistance management guidelines. Strobe™ 50WG Fungicide works best when used as part of a preventative disease management program. Use only surfactants approved for ornamental plants in combination with Strobe™ 50WG. Do not use silicone-based products with Strobe™ 50WG due to possible phytotoxicity. Always test tank mixes on a small group of representative plants prior to broadcast use.

Apply Strobe™ 50WG at use rates of 1-4 oz./100 gallons (0.5-2 oz./50 gallons) and every 7-28 days (or as otherwise specified for a specific plant or disease). The addition of a non-silicone based wetter-sticker at the recommended use rate may enhance coverage on hard-to-wet plant foliage. Under most conditions and for most diseases, apply 2-4 oz./100 gallons (1-2 oz./50 gallons) on a 7-14 day interval. Under light to moderate disease pressure, use the lower rates (1-2 oz./100 gallons or 0.5-1 oz./50 gallons) on intervals of 7-14 days or the higher rates (3-4 oz./100 gallons or 1.5-2 oz./50 gallons) on intervals of 14-28 days. Under environmental conditions which promote severe disease development, use the higher rates (3-4 oz./100 gallons or 1.5-2 oz./50 gallons) on intervals of 7-14 days. Use of Strobe™ 50WG as a “rescue” (late curative or eradicator) treatment may not always result in satisfactory disease control.

#### **Ornamental Use Restrictions**

- Do not apply Strobe™ 50WG to apple or cherry trees (flowering, Yoshino variety) due to possible phytotoxicity.
- Do not use spray equipment that has applied Strobe™ 50WG for use in these sensitive crops due to possible phytotoxicity from residue remaining in the sprayer.
- Do not exceed 10 lbs. product/crop acre/year or 8 applications/crop/year.
- Do not exceed 600 gallons spray volume per acre for foliar applications. For drench and crown applications, do not exceed 2 pints volume per square foot.
- Do not tank mix Strobe™ 50WG with other fungicides, insecticides, herbicides, fertilizers, adjuvants, etc., unless local experience indicates that the tank mix is safe to ornamental plants.

#### **Ornamental Use Precautions**

- Strobe™ 50WG may be applied to certain varieties of crabapple for control of apple scab. Strobe™ 50WG has been shown to be safer when applied to the species and varieties listed in Table 4. However, due to the large number of genera, species, and varieties of crabapple, it is impossible to test every one for tolerance to Strobe™ 50WG. The professional user should conduct small scale testing to ensure plant safety prior to broadscale commercial use on plant genera and species not listed on this label.

**Drench Application:** Strobe™ 50WG may be applied to control soil-borne, seedling, and crown diseases of production ornamentals (greenhouse, shade house, and container grown) as a preventative, drench treatment prior to infection. Good coverage of the pre-infection area (root zone, root ball, crown, etc.) is necessary for satisfactory control. Strobe™ 50WG may be drench applied to container grown ornamentals using 0.2-0.9 oz./100 gallons of water. Apply 1-2 pints of the solution per square foot surface area on an interval of 7-28 days. Apply drench prior to infection as healthy roots are necessary to optimize product uptake, systemic translocation, and disease protection.

For resistance management, do not make more than three (3) sequential drench applications of Strobe™ 50WG before alternating with a fungicide of a different mode of action.

Use care before making application of Strobe™ 50WG as a drench to small bedding plants in the seedling/plug stage due to possible phytotoxicity. Test a limited quantity of plants prior to full-scale application.

**Drip Irrigation:** Strobe™ 50WG may be applied through drip irrigation systems to potted ornamentals or to bedded, field-grown ornamentals for soil-borne disease control. Apply 2-16 oz. Strobe™ 50WG per acre as a preventative disease application. The soil or potting media must have adequate moisture capacity prior to drip application. Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. For maximum efficacy, delay subsequent irrigation (water only) for at least for 24 hours following drip application.

**TABLE 1**  
**Diseases Controlled**

When used in accordance with the label directions, Strobe™ 50WG will provide control of the following diseases of ornamental plants:

DISEASE (Pathogen)	Use Rates and Remarks	
	8 oz. and larger containers (oz. product per 100 gallons)	4 oz. containers (oz. product per 50 gallons)
<b>1. CONIFER BLIGHTS</b>		
a. Phomopsis Blight ( <i>Phomopsis juniperovora</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Tip Blight ( <i>Sirococcus strobilinus</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
<b>2. LEAF BLIGHTS/LEAF SPOTS</b>		
a. Alternaria Leaf Spot ( <i>Alternaria</i> spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Anthracnose ( <i>Colletotrichum</i> spp., <i>Elsinoe</i> spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
c. Downy Mildew of Rose ( <i>Peronospora sparsa</i> )	Apply 2-4 oz. every 7-21 days during periods of active plant growth and prior to dormancy or severe infection.	Apply 1-2 oz. every 7-21 days during periods of active plant growth and prior to dormancy or severe infection.
d. Entomosporium Leaf Spot ( <i>Entomosporium mespili</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
e. Iris Leaf Spot ( <i>Mycosphaerella macrospora</i> )	Apply 2-4 oz. every 7-21 days.	Apply 1-2 oz. every 7-21 days.
f. Leaf spot ( <i>Cladosporium echinulatum</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
g. Rose Blackspot ( <i>Diplocarpon rosea</i> )	Apply 4-8 oz. every 7-14 days. Apply Strobe™ 50WG on a 7-day interval unless disease pressure is light. Under severe disease conditions or if disease is already present, Strobe™ 50WG may be tank mixed with another rose blackspot fungicide. Do not exceed 24 oz./acre/application.	Apply 2-4 oz. every 7-14 days. Strobe™ 50WG on a 7-day interval unless disease pressure is light. Under severe disease conditions or if disease is already present, Strobe™ 50WG may be tank mixed with another rose blackspot fungicide. Do not exceed 24 oz./acre/application.
h. Myrothecium leaf spot ( <i>Myrothecium</i> spp.)	Apply 2-4 oz. every 7-21 days.	Apply 1-2 oz. every 7-21 days.
i. Downy Mildew of bedding plants ( <i>Peronospora</i> spp.)	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
j. Scab ( <i>Venturia inaequalis</i> )	Apply 1-4 oz. every 10-28 days. Do not apply to apple trees. For crabapples only, see Table 4 for tolerant species.	Apply 0.5-2 oz. every 10-28 days. Do not apply to apple trees. For crabapples only, see Table 4 for tolerant species.
k. Marronina Leaf Spot ( <i>Marsonina</i> spp.)	Apply 1-4 oz. every 14-28 days.	Apply 0.5-2 oz. every 14-28 days.
l. Cercospora Leaf Spot	Apply 1- 4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.

*(continued)*

<b>3. POWDERY MILDEW</b>		
Preventative applications only. Do not make more than 2 sequential applications before rotating to another class of fungicide.		
a. <i>Erysiphe pannosa</i> , <i>E. spp.</i>	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. <i>Microsphaera azaleae</i>	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
c. <i>Sphaerotheca pannosa</i>	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
<b>4. RUSTS</b>		
a. Needle Rust ( <i>Melampsora occidentalis</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. <i>Phragmidium spp.</i>	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
c. <i>Puccinia spp.</i>	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
d. <i>Gymnosporangium spp.</i>	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
<b>5. FLOWER BLIGHTS</b>		
a. Anthracnose ( <i>Collectotrichum spp.</i> , <i>Elsinoe spp.</i> )	Apply 1-4 oz. every 7-28 days.	Apply 0.5-2 oz. every 7-28 days.
b. Botrytis Blight ( <i>Botrytis cinerea</i> )	Apply 4-8 oz. every 7-21 days. For suppression only. Do not exceed 24 oz./acre.	Apply 2-4 oz. every 7-21 days. For suppression only. Do not exceed 24 oz./acre.
<b>6. SHOOT/STEM DISEASES</b>		
a. Aerial/Shoot Blight ( <i>Phytophthora spp.</i> )	Apply 1-2 oz every 7-28 days.	Apply 0.5-1 oz. every 7-28 days.
<b>7. SOIL-BORNE DISEASES (Directed Spray).</b> For directed spray applications, utilize the following rates below.		
a. <i>Rhizoctonia solani</i>	Apply 1-4 oz. every 7-21 days.	Apply 0.5-2 oz. every 7-21 days.
b. <i>Sclerotium rolfsii</i>	Apply 1-4 oz. every 7-21 days.	Apply 0.5-2 oz. every 7-21 days.
c. <i>Fusarium spp.</i>	Apply 1-4 oz. every 7-21 days.	Apply 0.5-2 oz. every 7-21 days.
<b>8. SOIL-BORNE DISEASES (Drench).</b> See <b>ORNAMENTALS</b> section for additional drench directions.		
a. <i>Rhizoctonia solani</i>	Apply 0.2-0.9 oz/100 gal of water as a drench OR 1-2 pts/sq ft as a spray solution every 7-28 days.	Apply 0.1-0.5 oz./100 gal of water as a drench OR 1-2 pints per square foot surface area, every 7-28 days.
b. <i>Sclerotium rolfsii</i>	Apply 0.2-0.9 oz/100 gal of water as a drench OR 1-2 pts/sq ft as a spray solution every 7-28 days.	Apply 0.1-0.5 oz./100 gal of water as a drench OR 1-2 pints per square foot surface area, every 7-28 days.
c. <i>Fusarium spp.</i>	Apply 0.2-0.9 oz/100 gal of water as a drench OR 1-2 pts/sq ft as a spray solution every 7-28 days.	Apply 0.1-0.5 oz./100 gal of water as a drench OR 1-2 pints per square foot surface area, every 7-28 days.



**PLANT SAFETY:** Strobe™ 50WG has been shown to be safe when applied to the ornamental plants listed in Tables 2, 3, and 4. However, due to the large number of genera, species, and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to Strobe™ 50WG. Neither the manufacturer nor the seller has determined whether or not Strobe™ 50WG can be used safely on genera, species, or varieties of ornamental and nursery plants not specified on this label. The professional user should conduct small scale testing to ensure plant safety prior to broad-scale commercial use on plant genera and species not listed in this label. In addition, do not tank mix Strobe™ 50WG with other fungicides, insecticides, herbicides, fertilizers, adjuvants, etc, unless local experience indicates that the tank mix is safe to ornamental plants. Do not apply Strobe™ 50WG to certain apple, crabapple, or cherry trees due to possible phytotoxicity. Further, do not use spray equipment that has applied Strobe™ 50WG for use in these sensitive crops due to possible phytotoxicity from residue remaining in the sprayer.

**Tolerant Ornamental Plants:** Strobe™ 50WG has been found to be safe when applied to the plants listed in Tables 2, 3, and 4 when applied according to labeled application methods, rates, and timings.

**TABLE 2**  
**Tolerant Plants Listed by Botanical Name**

<b>BOTANICAL NAME</b>	<b>COMMON NAME</b>	<b>DISEASES</b>
<i>Abelia</i> spp.	Abelia	2
<i>Abies fraseri</i>	Fraser fir	1, 4
<i>Acer palmatum</i>	Japanese maple	2
<i>Acer saccharum</i>	Sugar maple	2
<i>Ageratum</i> spp.	Floss Flower	3, 4
<i>Ageratum</i> spp.	Pussy's-Foot	3, 4
<i>Aglaonema</i> spp.	Chinese evergreen	2, 4
<i>Ajuga reptans</i>	Bugle, Bugleweed	3
<i>Antirrhinum</i> spp.	Snap Dragon	2d, 3, 4
<i>Aphelandra</i> spp.	Zebra Plant	2
<i>Artemisia</i> spp.	Mugwort, Sagebrush	2
<i>Artemisia</i> spp.	Wormwood	2
<i>Aster</i> spp.	Aster, Starwort	4
<i>Aucuba japonica</i>	Japanese aucuba, Japanese laurel	7
<i>Begonia</i> spp. (except Rieger begonia)	Begonia	2, 3
<i>Berberis thunbergii</i>	Barberry	3, 4
<i>Betula nigra</i>	River birch	3, 4
<i>Bougainvillea</i> spp.	Bougainvillea	2
<i>Brassaia actinophylla</i>	Rubber tree, Umbrella tree	2, 7
<i>Buddleia davidii</i>	Buddleia, Butterfly bush	2
<i>Buxus sempervirens</i>	Boxwood	2, 7a
<i>Caladium</i> spp.	Caladium	7
<i>Camellia japonica</i>	Camellia	2
<i>Caryota urens</i>	Sago Palm	2, 7
<i>Catharanthus roseus</i>	Vinca	2
<i>Ceanothus sanguineus</i>	Wild lilac	3
<i>Ceanothus</i> spp.	Ceanothus, California lilac, Snowball	3
<i>Cedrus atlantica</i>	Atlas cedar	2, 4

(continued)

<b>BOTANICAL NAME</b>	<b>COMMON NAME</b>	<b>DISEASES</b>
<i>Cedrus</i> spp.	White cedar	2, 4
<i>Cercis occidentalis</i>	Western redbud	2
<i>Chamaecyparis</i> spp.	Cypress, Leyland cypress	1
<i>Chamaecyparis pisifera</i>	Sawara cypress	1
<i>Chamaedora elegans</i>	Parlor palm	7
<i>Chrysanthemum</i> spp.	Chrysanthemums	2, 7c
<i>Clethra alnifolia</i>	Clethra, White alder	2
<i>Cornus</i> spp.	Dogwood, Pink dogwood, Flowering dogwood	2b, 3
<i>Cornus florida</i>	Dogwood	2b, 3
<i>Cortaderia selloana</i>	Pampas grass	3
<i>Cotoneaster adpressus</i>	Creeping cotoneaster	7
<i>Cotoneaster horizontalis</i>	Cotoneaster - variegated rockspray	7
<i>Cyclamen</i> spp.	Cyclamen	7c
<i>Cyperus</i> spp.	Cyperus	1
<i>Delphinium</i> spp.	Larkspur	2
<i>Dianthus caryophyllus</i>	Carnation	3, 4
<i>Dianthus</i> spp.	Pink	3, 4
<i>Dieffenbachia</i> spp.	Dumb Cane	2
<i>Diets iridiodes</i>	African iris, Butterfly iris	4c
<i>Digitalis</i> spp.	Foxglove	2, 3
<i>Epipremnum</i> spp.	Pothos	2
<i>Erica dareyensis</i>	Heather	2
<i>Euonymus alata</i>	Dwarf winged euonymus	2
<i>Euonymus alatus</i>	Burning bush	2
<i>Euonymus japonicus</i>	Evergreen euonymus	2
<i>Euphorbia</i> spp.	Poinsettia	2a
<i>Fatsia japonica</i>	Japanese fatsia, Paper plant	2
<i>Ficus</i> spp.	Fig	2
<i>Forsythia viridissima</i>	Forsythia	2
<i>Gaillardia</i> spp.	Blanket Flower	2
<i>Gardenia jasminoides</i>	Gardenia	3
<i>Geranium</i> spp.	Cranesbill	5b
<i>Gerbera jamesonii</i>	Gerber daisy, Transvaal daisy	3
<i>Hedera Algeriensis</i>	Algerian ivy	2
<i>Hedera helix</i>	English ivy	2
<i>Hibiscus moscheutos</i>	Hibiscus	2, 3
<i>Hibiscus rosa-sinensis</i>	Hibiscus	2, 3
<i>Hibiscus syriacus</i>	Rose of Sharon	2, 3
<i>Hosta</i> spp.	Hosta	2
<i>Hydrangea macrophylla</i>	French hydrangea	2, 3
<i>Hydrangea</i> spp.	Hydrangea	2c, 3

(continued)

<b>BOTANICAL NAME</b>	<b>COMMON NAME</b>	<b>DISEASES</b>
<i>Ilex</i> spp.	Holly, Winterberry, Yaupon	3
<i>Impatiens</i> spp. <sup>1</sup>	Balsam, Impatiens <sup>1</sup>	2a, 7a
<i>Itea virginica</i>	Virginia willow	3, 4
<i>Juniperus procumbens</i>	Juniper	1a, 4
<i>Juniperus scopulorum</i>	Juniper	1a, 4
<i>Juniperus</i> spp.	Juniper	1a, 4
<i>Juniperus virginiana</i>	Red cedar	1a, 4
<i>Lagerstroemia indica</i>	Crape myrtle	2, 3
<i>Laurus nobilis</i>	Laurel	3
<i>Liriope muscari</i>	Lily turf	2
<i>Lobularia maritima</i>	Sweet alyssum	7
<i>Magnolia grandiflora</i>	Southern magnolia	2
<i>Magnolia soulangiana</i>	Saucer magnolia	2
<i>Magnolia</i> spp.	Magnolia	2i
<i>Malus</i> spp.	Crabapple (See Table 4 for variety list)	2
<i>Nandina domestica</i>	Nandina	2
<i>Nerium oleander</i>	Oleander, Rose bay	2
<i>Pelargonium</i> spp.	Geranium	3, 4, 5b
<i>Pennisetum alopecuroides</i>	Grass	2
<i>Peperomia</i> spp.	Baby rubber plant	2, 7
<i>Petunia</i> spp.	Petunia	6a
<i>Phalaris</i> spp.	Dwarf pampas grass	3
<i>Philodendron</i> spp.	Philodendron	2
<i>Phlox</i> spp.	Phlox	3
<i>Phoenix dactylifera</i>	Date palm	2, 7
<i>Phoenix roebelenii</i>	Roebelin's palm	2, 7
<i>Photinia glabra</i>	Red-tip photinia	2, 3, 4
<i>Picea abies</i>	Norway spruce	1
<i>Picea glauca</i>	White spruce	1
<i>Picea pungens</i>	Blue spruce	1
<i>Pieris japonica</i>	Japanese andromeda	2, 7
<i>Pinus muhgo</i>	Muhgo pine	1b, 4
<i>Pinus nigra</i>	Black pine	1b, 4
<i>Pinus silvestris</i>	Scotch pine	1, 4
<i>Pinus</i> spp.	Pine	1b, 4
<i>Pinus strobus</i>	Eastern white pine	1b, 4
<i>Pittosporum</i> spp.	Australian laurel	3, 4
<i>Pittosporum tobira</i>	Mock orange	3, 4
<i>Plectranthus</i> spp.	Swedish ivy, Coleus	2
<i>Populus</i> spp.	Aspen Tree	2
<i>Potentilla</i> spp.	Cinquefoil	2

(continued)

<b>BOTANICAL NAME</b>	<b>COMMON NAME</b>	<b>DISEASES</b>
<i>Primula</i> spp.	Primrose	2
<i>Prunus pumila</i>	Cherry	2, 5
<i>Prunus</i> spp.	Flowering plum, Purple leaf plum	2, 5
<i>Pseudotsuga</i> spp.	Douglas fir	1, 4
<i>Pyrus calleryana</i>	Bradford's pear	3
<i>Quercus falcata</i>	Red oak	2, 3
<i>Quercus palustris</i>	Pin oak	2, 3
<i>Rhaphiolepis indica</i>	Indian hawthorn	2, 3, 4
<i>Rhododendron</i> spp.	Azaleas, Rhododendron	2b, 3, 6, 7
<i>Rhododendron</i> spp.	Glacier Azalea	2b, 3, 6, 7
<i>Rosa</i> spp.	Rose	2a, 3c, 4b
<i>Rosmarinus</i> spp.	Rosemary (prostrate)	2
<i>Rudbeckia hirta</i>	Black-eyed susan	2
<i>Salvia</i> spp.	Sage	3, 4
<i>Schlumbergera</i>	Holiday cactus	2, 7
<i>Sedum</i> spp.	Orpine, Stonecrop	2
<i>Sempervivum</i> spp.	Live-forever, House Leek	2
<i>Setaria</i> spp.	Ribbon-grass	2, 3
<i>Spathiphyllum floribundium</i>	Peace lily	2c, 7
<i>Spirea bumalda</i>	Spirea	3
<i>Spirea japonica</i>	Spirea	3
<i>Syagrus romanzoffii anum</i>	Queen palm	2
<i>Tagetes</i> spp.	Marigold	2a
<i>Taxus baccata</i>	Spreading yew	7
<i>Thujaopsis</i> spp.	Arborvitae	2
<i>Thymus serpyllum</i>	Creeping thyme	2
<i>Tsuga</i> spp.	Hemlock	4
<i>Verbena</i> spp.	Verbena, Vervain	3
<i>Viburnum</i> spp.	Viburnum	2, 3, 4
<i>Vinca</i> spp.	Periwinkle	2, 6a
<i>Viola</i> spp. <sup>1</sup>	Viola, Pansy <sup>1</sup>	2
<i>Wiegela florida</i>	Pink wiegela	2
<i>Yucca</i> spp.	Yucca	7
<i>Zinnia</i> spp.	Zinnia	2a, 3

<sup>1</sup>Do not exceed 2 oz./100 gallons on these species.

**TABLE 3**  
**Tolerant Plants Listed by Common Name**

<b>COMMON NAME</b>	<b>BOTANICAL NAME</b>
Abelia	<i>Abelia</i> spp.
Andromeda, Japanese	<i>Pieris japonica</i>
Arborvitae	<i>Thuopsis</i> spp.
Aspen Trees	<i>Populus</i> spp.
Aster	<i>Aster</i> spp.
Aucuba, Japanese	<i>Aucuba japonica</i>
Azalea, Glacier	<i>Rhododendron</i> spp.
Azaleas	<i>Rhododendron</i> spp.
Balsam	<i>Impatiens</i> spp.
Barberry	<i>Berberis thunbergii</i>
Begonia (except Rieger Begonia)	<i>Begonia</i> spp.
Birch, River	<i>Betula nigra</i>
Black-Eyed Susan	<i>Rudbeckia hirta</i>
Blanket Flower	<i>Gaillardia</i> spp.
Bougainvillea	<i>Bougainvillea</i> spp.
Boxwood	<i>Buxus sempervirens</i>
Buddleia	<i>Buddleia davidii</i>
Bugle	<i>Ajuga reptans</i>
Bugleweed	<i>Ajuga reptans</i>
Burning Bush	<i>Euonymus alatus</i>
Butterfly Bush	<i>Buddleia davidii</i>
Cactus, Holiday	<i>Schlumbergera</i>
Caladium	<i>Caladium</i> spp.
Camellia	<i>Camellia japonica</i>
Carnation	<i>Dianthus caryophyllus</i>
Ceanothus	<i>Ceanothus</i> spp.
Cedar, Atlas	<i>Cedrus atlantica</i>
Cedar, Red	<i>Juniperus virginiana</i>
Cedar, White	<i>Cedrus</i> spp.
Cherry	<i>Prunus pumila</i>
Christmas Trees (see Fraser fir, Scotch pine and Douglas fir)	
Chrysanthemum	<i>Chrysanthemum</i> spp.
Cinquefoil	<i>Potentilla</i> spp.
Clethra	<i>Clethra alnifolia</i>
Coleus	<i>Plectranthus</i> spp.
Cotoneaster, Creeping	<i>Cotoneaster adpressus</i>
Cotoneaster, Variegated Rockspray	<i>Cotoneaster horizontalis</i>
Crabapple (See Table 4 for variety list)	<i>Malus</i> spp.

*(continued)*

<b>COMMON NAME</b>	<b>BOTANICAL NAME</b>
Cranesbill	<i>Geranium</i> spp.
Crapemyrtle	<i>Lagerstroemia indica</i>
Cyclamen	<i>Cyclamen</i> spp.
Cyperus	<i>Cyperus</i> spp.
Cypress, Sawara	<i>Chamaecyparis pisifera</i>
Cypress, Leyland	<i>Chamaecyparis</i> spp.
Daisy, Gerber	<i>Gerbera jamesonii</i>
Daisy, Transvaal	<i>Gerbera jamesonii</i>
Dogwood	<i>Cornus</i> spp.
Dogwood	<i>Cornus florida</i>
Dogwood, Pink	<i>Cornus</i> spp.
Dumbcane	<i>Dieffenbachia</i> spp.
Euonymus, Dwarf Winged	<i>Euonymus alata</i>
Euonymus, Evergreen	<i>Euonymus japonicus</i>
Evergreen, Chinese	<i>Aglaonema</i> spp.
Fatsia, Japanese	<i>Fatsia japonica</i>
Fig	<i>Ficus</i> spp.
Fir, Douglas	<i>Pseudotsuga</i> spp.
Fir, Fraser	<i>Abies fraseri</i>
Floss Flower	<i>Ageratum</i> spp.
Forsythia	<i>Forsythia viridissima</i>
Foxglove	<i>Digitalis</i> spp.
Gardenia	<i>Gardenia jasminoides</i>
Geranium	<i>Pelargonium</i> spp.
Grass	<i>Pennisetum alopecuroides</i>
Grass, Dwarf Pampas	<i>Phalaris</i> spp.
Grass, Pampas	<i>Cortaderia selloana</i>
Hawthorn, Indian	<i>Rhaphiolepis indica</i>
Heather	<i>Erica dareyensis</i>
Hemlock	<i>Tsuga</i> spp.
Hibiscus	<i>Hibiscus moscheutos</i>
Hibiscus	<i>Hibiscus rosa-sinensis</i>
Holly	<i>Ilex</i> spp.
Hosta	<i>Hosta</i> spp.
House Leek	<i>Sempervivum</i> spp.
Hydrangea	<i>Hydrangea</i> spp.
Hydrangea, French	<i>Hydrangea macrophylla</i>
Impatiens <sup>1</sup>	<i>Impatiens</i> spp. <sup>1</sup>
Iris, African	<i>Diets iridiodes</i>

(continued)

<b>COMMON NAME</b>	<b>BOTANICAL NAME</b>
Iris, Butterfly	<i>Dietes iridioides</i>
Ivy, Algerian	<i>Hedera algeriensis</i>
Ivy, English	<i>Hedera helix</i>
Ivy, Swedish	<i>Plectranthus</i> spp.
Juniper	<i>Juniperus procumbens</i>
Juniper	<i>Juniperus scopulorum</i>
Juniper	<i>Juniperus</i> spp.
Larkspur	<i>Delphinium</i> spp.
Laurel	<i>Laurus nobilis</i>
Laurel, Australian	<i>Pittosporum</i> spp.
Laurel, Japanese	<i>Aucuba japonica</i>
Lilac, California	<i>Ceanothus</i> spp.
Lilac, Wild	<i>Ceanothus sanguineus</i>
Lily, Peace	<i>Spathiphyllum floribundium</i>
Lily Turf	<i>Liriope muscari</i>
Live-Forever	<i>Sempervivum</i> spp.
Magnolia	<i>Magnolia</i> spp.
Magnolia, Saucer	<i>Magnolia soulangiana</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>
Maple, Japanese	<i>Acer palmatum</i>
Maple, Sugar	<i>Acer saccharum</i>
Marigold	<i>Tagetes</i> spp.
Mock Orange	<i>Pittosporum tobira</i>
Mugwort	<i>Artemisia</i> spp.
Nandina	<i>Nandina domestica</i>
Oak, Pin	<i>Quercus palustris</i>
Oak, Red	<i>Quercus falcata</i>
Oleander	<i>Nerium oleander</i>
Orpine	<i>Sedum</i> spp.
Palm, Date	<i>Phoenix dactylifera</i>
Palm, Parlor	<i>Chamaedora elegans</i>
Palm, Queen	<i>Syagrus romanzoffianum</i>
Palm, Roebelin's	<i>Phoenix roebelenii</i>
Palm, Sago	<i>Caryota urens</i>
Pansy <sup>1</sup>	<i>Viola</i> spp. <sup>1</sup>
Paper Plant	<i>Fatsia japonica</i>
Pear, Bradford	<i>Pyrus calleryana</i>
Periwinkle	<i>Vinca</i> spp.
Petunia	<i>Petunia</i> spp.
Philodendron	<i>Philodendron</i> spp.

(continued)

<b>COMMON NAME</b>	<b>BOTANICAL NAME</b>
Phlox	<i>Phlox</i> spp.
Photinia, Red-Tip	<i>Photinia glabra</i>
Pine	<i>Pinus</i> spp.
Pine, Black	<i>Pinus nigra</i>
Pine, Eastern White	<i>Pinus strobus</i>
Pine, Muhgo	<i>Pinus muhgo</i>
Pine, Scotch	<i>Pinus sylvestris</i>
Pink	<i>Dianthus</i> spp.
Plum, Flowering	<i>Prunus</i> spp.
Plum, Purple Leaf	<i>Prunus</i> spp.
Poinsettia	<i>Euphorbia</i> spp.
Pothos	<i>Epipremnum</i> spp.
Primrose	<i>Primula</i> spp.
Pussy's-Foot	<i>Ageratum</i> spp.
Redbud, Western	<i>Cercis occidentalis</i>
Rhododendron	<i>Rhododendron</i> spp.
Ribbon-Grass	<i>Setaria</i> spp.
Rose of Sharon	<i>Hibiscus syriacus</i>
Rose	<i>Rosa</i> spp.
Rose Bay	<i>Nerium oleander</i>
Rosemary (Prostrate)	<i>Rosmarinus</i> spp.
Rubber Plant, Baby	<i>Peperomia</i> spp.
Rubber Tree	<i>Brassaia actinophylla</i>
Sage	<i>Salvia</i> spp.
Sagebrush	<i>Artemisia</i> spp.
Snap Dragon	<i>Antirrhinum</i> spp.
Snowball	<i>Ceanothus</i> spp.
Spirea	<i>Spirea bumalda</i>
Spirea	<i>Spirea japonica</i>
Spruce, Blue	<i>Picea pungens</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, White	<i>Picea glauca</i>
Starwort	<i>Aster</i> spp.
Stoncrop	<i>Sedum</i> spp.
Sweet Alyssum	<i>Lobularia maritime</i>
Thyme, Creeping	<i>Thymus serpyllum</i>
Umbrella Tree	<i>Brassaia actinophylla</i>
Verbena	<i>Verbena</i> spp.
Vervain	<i>Verbena</i> spp.
Viburnum	<i>Viburnum</i> spp.

(continued)



COMMON NAME	BOTANICAL NAME
Vinca	<i>Catharanthus roseus</i>
Viola	<i>Viola</i> spp.
White Alder	<i>Clethra</i> spp.
Wiegela, Pink	<i>Wiegela florida</i>
Willow, Virginia	<i>Itea virginica</i>
Winterberry	<i>Ilex</i> spp.
Wormwood	<i>Artemisia</i> spp.
Yaupon	<i>Ilex</i> spp.
Yew, Spreading	<i>Taxus baccata</i>
Yucca	<i>Yucca</i> spp.
Zebra Plant	<i>Aphelandra</i> spp.
Zinnia	<i>Zinnia</i> spp.

<sup>1</sup>Do not exceed 2 oz/100 gallons on these species.

**TABLE 4**  
**Tolerant Varieties of Crabapple Species (Genus *Malus*)**  
**Tolerant Varieties of *Malus***

Arkansas Black	Eleyi	Mary Potter	<i>seiboldii</i>
<i>atrosanguinea</i>	Enterprise	Molten Lava	Selkirk
<i>baccata</i>	Evereste	New Centennial	Sentinel
<i>baccata</i> var. <i>jackii</i>	Eyelynn	Ormiston Roy	Silver Moon
<i>baccata</i> var. <i>mandshurica</i>	<i>floribunda</i>	Pink Satin	Silverdrift
Callaway	Gloriosa	Prairie Maid	Sinai Fire
Candymint Sargent	Golden Delicious	Prairifire	<i>Spectabilis</i>
Christmas Holly	Golden Raindrops	Profusion	Sugar Tyme
<i>coronaria</i>	Hopa	<i>pumila</i>	Van Eseltine
David	Indian Magic	Ralph Shay	White Angel
Dolgo	Island	Red Jade	Williams Pride
Donald Wyman	Katherine	Red Baron	Winter Gold
Dorothea	Lancelot	Sargent	Yellow Delicious
Doubleblooms	Louisa	<i>sargentii</i>	<i>zumi</i> Calocarpa

**TABLE 5**  
**Intolerant Plants†**

<b>COMMON NAME</b>	<b>BOTANICAL NAME</b>
Apple	<i>Malus domestica</i>
Crabapple - Flame variety	<i>Malus</i> spp.
Crabapple - Brandywine variety	<i>Malus</i> spp.
Crabapple - Novamac variety	<i>Malus</i> spp.
Cherry, Flowering-Yoshino variety	<i>Prunus yedoensis</i>
Leatherleaf Fern	<i>Rumohra adianformis</i> and other species

†Do not apply Strobe™ 50WG to these species or varieties

**CONIFERS INCLUDING CHRISTMAS TREES,  
COMMERCIAL PRODUCTION ROSES**

Strobe™ 50WG may be used to control certain diseases on conifers in production (indoor and outdoor) and landscape situations.

Please see the **ORNAMENTALS** section for more detailed directions for use in landscape situations.

For 4 oz. pack size: See **Strobe™ 50WG Rate Conversion Chart Specifically for 4 oz. Pack Size** below.

<b>Crop</b>	<b>Target Diseases</b>	<b>Use Rate oz. product/A (lbs. a.i./A)</b>	<b>Remarks</b>
<b>Conifers including Christmas Trees</b>	Diplodia tip blight ( <i>Diplodia pinea</i> )  Lophodermium needlecast ( <i>Lophodermium pinastr</i> )  Swiss needlecast ( <i>Phaeocryptopus gaumannii</i> )	3.2-8.0  (0.10-0.25)	<b>Integrated Pest (Disease) Management:</b> Strobe™ 50WG should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance and removal of plant debris in which inoculum may overwinter.  <b>Resistance Management:</b> Do not apply more than four sequential applications of Strobe™ 50WG before alternating with a fungicide that is not in Group 11. Do not make more than eight applications of Strobe™ 50WG per acre per year.  <b>Application Directions:</b> Strobe™ 50WG applications should begin prior to disease development and continue throughout the season at intervals of 7-21 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at labeled rates.
<b>Specific Use Restrictions:</b> Do not apply more than 4.0 pounds product/acre/season (2.0 lbs. a.i./A).			

Crop	Target Diseases	Use Rate oz. product/A (lbs. a.i./A)	Remarks
<b>Roses (Commercial Rose Production)</b>	Downy Mildew ( <i>Peronospora sparsa</i> ) Powdery Mildew ( <i>Sphaerotheca pannosa</i> ) Rust ( <i>Phragmidium mucronatum</i> , <i>P. tuberculatum</i> , and other <i>Phragmidium</i> spp.) Septoria Leaf Spot ( <i>Septoria rosea</i> ) Alternaria Leaf Spot ( <i>Alternaria alternata</i> )	1.6-8.0 (0.05-0.25)	<p><b>Integrated Pest (Disease) Management:</b> Strobe™ 50WG should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, optimum plant populations, proper fertilization, winter and/or spring pruning, plant residue management, and proper timing and placement of irrigation.</p> <p><b>Resistance Management:</b> Do not make more than four (4) sequential applications of Strobe™ 50WG before alternating with a fungicide that is not in Group 11. Do not make more than eight applications per acre per year.</p> <p><b>Application Directions:</b> Strobe™ 50WG application should begin prior to disease development and continue throughout the season at intervals of 7-21 days following the resistance management guidelines. Applications may be made by ground, air or chemigation. An adjuvant may be added at labeled rates.</p> <p><b>Plant Safety:</b> Strobe™ 50WG has been shown to be safe when applied to roses. However, all varieties of roses have not been evaluated for safety. Small scale variety safety testing must be conducted to ensure plant safety prior to large scale application. In addition, do not tank mix Strobe™ 50WG with other fungicides, insecticides, herbicides, fertilizer, etc. unless local experience indicates that the tank mix is safe to roses.</p>
<p><b>Specific Use Restrictions:</b> Do not apply more than 4.0 lbs product/acre/season (2.0 lbs. a.i./A).</p>			

**Strobe™ 50WG Rate Conversion Chart**

<b>Oz. Product/A</b>	<b>Lb. a.i./A</b>	<b>Treated Acres/Lb. Product</b>
0.9	0.03	17.8
1.6	0.05	10.0
2.0	0.06	8.0
2.2	0.07	7.3
2.5	0.08	6.4
3.0	0.09	5.3
3.2	0.10	5.0
3.5	0.11	4.6
4.0	0.13	4.0
4.3	0.135	3.7
4.5	0.14	3.6
5.1	0.16	3.1
5.5	0.17	2.9
6.0	0.19	2.7
6.4	0.20	2.5
7.0	0.22	2.3
7.5	0.23	2.1
8.0	0.25	2.0
8.5	0.27	1.9
9.0	0.28	1.8
9.6	0.30	1.7
10.0	0.31	1.6
10.5	0.33	1.5
11.0	0.34	1.5
11.5	0.36	1.4
12.0	0.38	1.3
12.5	0.39	1.3
12.8	0.40	1.3

**Strobe™ 50WG Rate Conversion Chart Specifically for 4 oz. Pack Size**  
**(For use with 4 oz. package size only)**

<b>Oz. Product/A</b>	<b>Oz. Product/1000 sq. ft.</b>	<b>Treated Acres/4 oz. Product</b>
1.0	0.025	4.0
1.5	0.035	2.7
2.0	0.05	2.0
2.5	0.06	1.6
3.0	0.07	1.3
3.5	0.08	1.1
4.0	0.09	1.0
4.5	0.1	0.9
5.0	0.11	0.8
5.5	0.13	0.73
6.0	0.14	0.67
6.5	0.15	0.62
7.0	0.16	0.57
7.5	0.17	0.53
8.0	0.18	0.5
8.7	0.2	0.46
13.1	0.3	0.31
17.4	0.4	0.23
26.1	0.6	0.15
30.5	0.7	0.13

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, cover spill with moist sand, soil, or sawdust. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, 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 HANDLING:

**Nonrefillable Container (rigid-fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions 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, it is impossible to eliminate all risk associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc. election, the replacement of product.

## NOTES

**QUALI-PRO**

# Strobe™ 50WG

*Broad Spectrum Fungicide for Control of Plant Diseases in Turf and Ornamentals*

**ACTIVE INGREDIENT:** % BY WEIGHT

**Azoxystrobin:**

methyl (2E)-2-([6-(2-cyanophenoxy) pyrimidin  
-4-yloxy)phenyl]-3-methoxyacrylate\* ..... 50.0%

**OTHER INGREDIENTS:** ..... 50.0%

**TOTAL** ..... 100.0%

Contains 0.5 lb. active ingredient per pound of product.

\*IUPAC

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary Statements and  
Directions for Use inside booklet.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. **PESTICIDE STORAGE:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, cover spill with moist sand, soil, or sawdust. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, 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 HANDLING:

**Nonrefillable Container (rigid-fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Reg. No.: 53883-343

EPA Est. No.: 53883-TX-002

**Net Contents: 6 lbs.**

### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, and absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### ENVIRONMENTAL HAZARDS

Strobe™ 50WG is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Strobe™ 50WG can be persistent for several months or longer.

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 water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

Manufactured for:

**CSI**

**CONTROL  
SOLUTIONS**

5903 Genoa-Red Bluff Pasadena, TX 77507-1041

EPA 062414/REV A