

2021-4064  
2021-08-20

GROUP	11	FUNGICIDE
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Quali-Pro Strobe 50 WG

Wettable Granules

COMMERCIAL

For controlling diseases in turf on golf courses and commercial turf farms.

ACTIVE INGREDIENT: Azoxystrobin 50%

READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 34229 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 100 g – Bulk

For emergency medical help call PROP HARMA at 1.877.250.9291 (24 hours a day). For spill, leak, or fire call INFOTRAC at 1.800.535.5053 (24 hours a day)

ADAMA Agricultural Solutions Canada Ltd.  
300-191 Lombard Ave  
Winnipeg MB R3B 0X1  
1-855-264-6262

(Back Panel of the Jug)

## **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN.

May irritate eyes. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash with soap and water after handling, and before eating, drinking or smoking. Wash contaminated clothing, separately from household laundry, before re-use. Do not wear contaminated shoes.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

**Golf courses: DO NOT** enter or allow entry into treated areas until sprays have dried.  
**Sod farms: DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation and human activity (other than golf courses) such as parks, school grounds, and playing fields, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

## **FIRST AID**

IF POISONING IS SUSPECTED, call a poison control centre or doctor for treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor IMMEDIATELY for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing, take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

## **TOXICOLOGICAL INFORMATION**

No specific symptoms of poisoning are known for this product. If ingested, nausea, vomiting, diarrhea and abdominal pain may occur. Treat symptomatically

## **ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

## **STORAGE**

1. Store in original, tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Keep away from fire or open flame, or other sources of heat.

## **DISPOSAL**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an

offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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## GENERAL INFORMATION

### SECTION 1: THE PRODUCT

Quali-Pro Strobe 50 WG is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many diseases on turf. The product may be applied as a foliar spray as part of an integrated disease management strategy for turf on golf courses and commercial turf farms.

## SAFETY AND HANDLING

### SECTION 2: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT, AND RE-ENTRY RESTRICTIONS

KEEP OUT OF REACH OF CHILDREN.

Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash with soap and water after handling, and before eating, drinking or smoking. Wash contaminated clothing, separately from household laundry, before re-use. Do not wear contaminated shoes.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

**Golf courses: DO NOT** enter or allow entry into treated areas until sprays have dried.

**Sod farms: DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation and human activity (other than golf courses) such as parks, school grounds, and playing fields, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

### SECTION 3: FIRST AID AND TOXICOLOGICAL INFORMATION

IF POISONING IS SUSPECTED, call a poison control centre or doctor for treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor IMMEDIATELY for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing, take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of

water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

No specific symptoms of poisoning are known for this product. If ingested, nausea, vomiting, diarrhea and abdominal pain may occur. Treat symptomatically

#### **SECTION 4: ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

#### **SECTION 5: STORAGE**

1. Store in original, tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Keep away from fire or open flame, or other sources of heat.

#### **SECTION 6: DISPOSAL**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.



If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **SECTION 7: NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

### **DIRECTIONS FOR USE**

## **SECTION 8: PRODUCT OVERVIEW**

Quali-Pro Strobe 50 WG is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many diseases on turf. The product may be applied as a foliar spray as part of an integrated disease management strategy for turf on golf courses and commercial turf farms. Cultural practices such as appropriate 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 vigour and reduce susceptibility to disease. Consult local agricultural and authorities in your area for guidance.

**CAUTION:** Quali-Pro Strobe 50 WG has been shown to be extremely phytotoxic to certain apple and crabapple varieties. Quali-Pro Strobe 50 WG should not be applied where there is the possibility of spray drift reaching apple and crabapple trees. **DO NOT** use sprayers used to apply Quali-Pro Strobe 50 WG to spray apples or crabapples.

**DO NOT** apply Quali-Pro Strobe 50 WG with silicone-based wetting agents due to possible phytotoxicity.

## **SECTION 9: APPLICATION INSTRUCTIONS AND USE LIMITATIONS**

- As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of waste.
- Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.
- 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 disease conducive environmental conditions exist.

- DO NOT apply using aerial application equipment.
- DO NOT apply through irrigation equipment.
- DO NOT apply through any type of ultra-low volume (ULV) spray system (less than 30 litres per hectare).

<b>SECTION 10: PRE-HARVEST, GRAZING AND FEEDING INTERVALS</b>
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Grazing/Feeding: DO NOT graze or feed clippings from the treated area to livestock.

<b>SECTION 11: SPRAY BUFFER ZONES</b>
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A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	Turf	2	1	1	1	1

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the the Pesticides portion of the Canada.ca website.

<b>SECTION 12: REGISTERED USES, APPLICATION TIMING AND TARGET DISEASE</b>
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**REGISTERED USE:**

Quali-Pro Strobe 50 WG is a broad spectrum, preventative fungicide with systemic and curative properties recommended for the control of many diseases on turf.

**TURF: Golf Courses, Commercial Turf Farms** - For control of **pythium blight, brown patch,**

**waitea patch, microdochium patch, gray snow mould, pink snow mould, anthracnose, fairy ring, leaf spots melting-out and summer patch.** Refer to the following table to determine the appropriate use rate and application interval by target disease.

Disease Controlled	Product Rate		Application Interval (Days)	Remarks
	kg/ha	g/100 m <sup>2</sup>		
Pythium blight ( <i>Pythium aphanidermatum</i> )	1.2	12	10 - 14	Begin application before disease is present (usually late May or June) when environmental conditions favour disease development, i.e., relative humidity greater than 90% for at least 9 hours, maximum daily temperature of 27.7 °C and low temperature of 20 °C.
Brown patch ( <i>Rhizoctonia solani</i> )	0.6	6	14 - 28	Begin application before disease is present (usually late May or June) when conditions favour disease development (high surface moisture or humidity and warm night temperatures). During prolonged periods of favourable conditions apply on the shorter application interval.
Waitea patch ( <i>Waitea circinata</i> var. <i>circinata</i> )	0.6-1.2	6-12	14-28	Apply when conditions are favourable for disease development, i.e., warmer temperatures between 20 to 30 °C and during periods of high humidity and extended leaf wetness. Use the higher rate under moderate to severe disease pressure. During prolonged periods of favourable conditions, apply on the shorter application interval. DO NOT apply more than 2 sequential applications of Quali-Pro Strobe 50 WG before alternating with a fungicide of a different group with a different mode of action
Microdochium patch ( <i>Microdochium nivale</i> )	0.6	6	14 - 28	Apply when conditions are favourable for disease development, i.e., extended period of cool (<15.5 °C) and wet weather in spring and fall.
Grey snow mould ( <i>Typhula incarnata</i> ) and Pink snow mould ( <i>Microdochium nivale</i> )	1.8 - 2.4	18 - 24	One fall application	Apply in late fall before snow cover. Do not apply on top of snow. Use the higher rate if there is a history of severe snow mould infection on the site.
Anthracnose	0.6 – 1.2	6 - 12	14 - 28	Use preventatively. Begin applications when

<i>(Colletotrichum graminicola)</i>				conditions are favorable for disease infection, prior to disease symptom development.
Fairy ring (Basidiomycete, including <i>Lycoperdon</i> spp. )	1.2	12	28	Apply as soon as possible after fairy ring symptoms develop. Severely damaged or thin turf may require reseeding. Fairy ring symptoms may take 2 to 3 weeks to disappear following applications.
Leaf spot and melting-out ( <i>Bipolaris sorokiniana</i> , <i>Drechslera poae</i> )	0.6 – 1.2	6 - 12	14 - 28	Apply when conditions are favorable for disease development.
Summer patch ( <i>Magnaporthe poae</i> )	0.6 – 1.2	6 - 12	14 - 28	Initiate applications when conditions are favourable for disease development. Apply 6 g product/100 m <sup>2</sup> at 14 day intervals or 12 g product/100 m <sup>2</sup> at 28 day intervals.

Application Directions: Apply the required amount of Quali-Pro Strobe 50 WG in 8 to 16 litres of water per 100 m<sup>2</sup> (800 to 1600 litres per hectare). Repeat applications at specified intervals and do not apply more than 5.4 kg of Quali-Pro Strobe 50 WG per hectare per year. Use the shorter specified application interval when prolonged favourable disease conditions exist. (Refer to Resistance Management section) Apply by ground sprayer only.

Ground application – Quali-Pro Strobe 50 WG may be applied with all types of spray equipment commonly used for making ground applications. Apply Quali-Pro Strobe 50 WG in sufficient water volume for adequate coverage and canopy penetration. Do not apply Quali-Pro Strobe 50 WG through any type of ultra-low volume (ULV) spray system (less than 30 litres per hectare). 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 disease conducive environmental conditions exist.

Refer to the following table for assistance in calculating product requirements based on target application spray volume, and size of mix load. Amount of Quali-Pro Strobe 50 WG (grams) required for each 100 litres of spray solution at selected rates and target application volumes:

Rate of Quali-Pro Strobe 50 WG (g/100 m <sup>2</sup> )	Target Application Volume (litres/100 m <sup>2</sup> )		
	8	12	16
6	75	50	37.5
12	150	100	75
18	225	150	112.5
24	300	200	150
Rate of Quali-Pro Strobe 50 WG	Target Application Volume (litres/ha)		

(kg/ha)	<b>800</b>	<b>1200</b>	<b>1600</b>
0.6	75	50	37.5
1.2	150	100	75
1.8	225	150	112.5
2.4	300	200	150

### **SECTION 13: MIXING INSTRUCTIONS**

- To prepare spray solution, partially fill the spray tank with clean water and begin agitation.
- Add the specified amount of Quali-Pro Strobe 50 WG to the tank, allowing time for good dispersion.
- Finish filling the tank to the desired volume to obtain the proper spray concentration.
- Maintain agitation throughout the spraying operation.
- Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use.
- Sprayers should be thoroughly cleaned immediately after application.
- Do not use silicone based products with Quali-Pro Strobe 50 WG due to possible phytotoxicity.

### **SECTION 14: RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Quali-Pro Strobe 50 WG contains a Group 11 Fungicide. Any fungal population may contain individuals naturally resistant to Quali-Pro Strobe 50 WG and other Group 11 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of Quali-Pro Strobe 50 WG with different groups that control the same pathogens. DO NOT apply more than two (2) applications before applying one (1) application of a fungicide of a different group with a different mode of action.
- Use tank mixtures with fungicide/bactericides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide/bactericide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for sign of resistance development. If disease continues

to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens in your area.

For further information or to report suspected resistance, contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 or [www.adama.com/canada](http://www.adama.com/canada).