

2024-1457  
2025-02-07

[Container]

GROUP

P07

FUNGICIDE

# SIGNATURE XTRA STRESSGARD

**Fungicide**

Wettable Granules

SYSTEMIC FUNGICIDE FOR USE ON  
TURF

**Commercial**

**ACTIVE INGREDIENT:** Fosetyl Al... 60%

**REGISTRATION NUMBER: 32800**  
**PEST CONTROL PRODUCTS ACT**

**CAUTION: EYE IRRITANT**

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING**

NET CONTENTS: 1 Kg – 25 Kg

**2022 Environmental Science CA Inc.**  
137 Glasgow Street, Suite 210, Unit 111  
Kitchener, Ontario, N2G 4X8

Product Information: 1-800-331-2867  
[www.ca.envu.com](http://www.ca.envu.com)

**In case of spills, poisoning or fire, telephone emergency response number collect  
1-800-424-9300 (24 hours a day).**

SIGNATURE XTRA and STRESSGARD are registered trademarks of 2022 Environmental Science CA

## **PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.** During mixing, loading, application, cleanup and repair activities wear chemical-resistant gloves, long coveralls (with hood) over normal clothes, shoes plus socks and a hat. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. After use, wash hands and other exposed skin. Wash hands and face before eating, drinking, smoking or using the toilet. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Keep away from ponds, streams and other water sources. 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.

Golf courses: For transplanting and planting activities, do not re-enter treated areas for 48 hours. For all other activities, 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.

Turf: DO NOT enter, or allow worker entry until spray has dried.

## **FIRST AID:**

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**Eye contact:** 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.

**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.

**Inhalation:** 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.

**Ingestion:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

## **TOXICOLOGICAL INFORMATION:**

No specific antidote. Treat symptomatically.

## **ENVIRONMENTAL PRECAUTIONS:**

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE. Toxic to small wild mammals. Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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 filter strip between the treated area and the edge of the water body.

### **STORAGE:**

Store SIGNATURE XTRA STRESSGARD in a dry, ventilated place away from feed, seed or foodstuffs. Store this product from food or feed. Unused product should be stored in original container. SIGNATURE XTRA STRESSGARD left exposed to the air will absorb moisture over time and become unusable. If the product becomes caked or lumpy, do not use.

### **DISPOSAL:**

**Recyclable Container 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/territorial requirements.

**Disposal of Unused, Unwanted Product:** For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency.. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup 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 a control product in a way that is inconsistent with the directions on the label.

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## **GENERAL INFORMATION:**

SIGNATURE XTRA STRESSGARD can be used for the control of Pythium blight and for the suppression or control of Pythium root rot and as a preventative control of foliar and basal rot anthracnose in turf. SIGNATURE XTRA STRESSGARD is completely systemic. Product applied to leaves will move downwards to the roots. SIGNATURE XTRA STRESSGARD is most effective when used as a preventative treatment. Plants displaying early disease symptoms, or when conditions for disease are favorable, are most likely to benefit from this treatment.

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## DIRECTIONS FOR USE

### TURF

Do not apply this product using handheld or automated fogging or mist blower equipment.  
 Do not apply this product using ultra-low volume (ULV) equipment.  
 Not for use on other residential turf sites including residential lawns, gardens, playing fields, cemeteries, and schools.

When applied as directed, SIGNATURE XTRA STRESSGARD will control the listed diseases, unless otherwise indicated as suppression.

### GOLF COURSES, SOD FARMS, TURF AREAS

Target Diseases	Product Rate (g/100 m <sup>2</sup> )	Application Interval	Instructions
For control of Pythium blight ( <i>Pythium spp.</i> )	60 120-180	7 day 14 day	<p>Apply SIGNATURE XTRA STRESSGARD when conditions are favourable for disease development.</p> <p>Apply this product uniformly in 6.0-16.0 L of water/100 m<sup>2</sup> to the targeted area using the appropriate broadcast application methods.</p> <p>Use the 60 g/100 m<sup>2</sup> rate and 7-day interval preventively in areas with little history of the disease.</p> <p>Use the 120-180 g/100 m<sup>2</sup> rate and 14 day interval under conditions which promote disease development (&gt;30 C, high humidity, wet soils) for extended residual control.</p> <p>Do not exceed 640 g/100 m<sup>2</sup> per season.</p>
For suppression of Pythium root rot ( <i>Pythium spp.</i> )	60 120	7 day 14 day	<p>Apply SIGNATURE XTRA STRESSGARD when conditions are favourable for disease development.</p> <p>Apply this product uniformly in 6.0 - 16.0 L of water/100 m<sup>2</sup> to the targeted area using the appropriate broadcast application methods.</p> <p>Use the 60 g/100 m<sup>2</sup> rate and 7-day interval preventatively in areas with little history of disease.</p> <p>Do not exceed 640 g/100 m<sup>2</sup> per season.</p>

<b>For control of Pythium root rot (<i>Pythium spp.</i>)</b>	180	14 day	Apply SIGNATURE XTRA STRESSGARD when conditions are favourable for disease development.  Apply this product uniformly in 6.0 - 16.0 L of water/100 m <sup>2</sup> to the targeted area using the appropriate broadcast application methods.  Use the 180 g/100 m <sup>2</sup> rate and 14 day interval under conditions which promote disease development (> 30° C, high humidity, wet soils) for extended residual control.  Do not exceed 640 g/100 m <sup>2</sup> per season.
<b>For control of anthracnose (basal rot and foliar blight) (<i>Colletotrichum cereale</i>)</b>	60	7 day	Apply SIGNATURE XTRA STRESSGARD when conditions are favourable for disease development.  Apply this product uniformly in 6.0 – 16.0 L/100 m <sup>2</sup> to the targeted area using the appropriate broadcast application methods.  Use the 60 g/100 m <sup>2</sup> rate and 7-day interval preventatively in areas with little history of the disease.  Do not exceed 640 g/100 m <sup>2</sup> per season.
	100–180	7-14 day	Use the 100-180 g/100 m <sup>2</sup> rate and 7-14 day interval under conditions of high disease pressure (>30 C, high humidity, wet soils) for extended residual control. Under severe disease pressure, use the highest rate and shortest interval.  Do not exceed 640 g/100 m <sup>2</sup> per season.
Re-apply when conditions are favourable for disease development.  DO NOT apply by air.  For resistance management it is recommended to rotate with other fungicide products with a different mode of action. See Resistance Management Recommendations below.			

**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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

**Spray Buffer zones:**

A spray buffer zone is NOT required for:

- uses with handheld application equipment permitted on this label,
- soil drench or soil incorporation.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive 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 (meters) Required for the Protection of:				
		Aquatic Habitat of Depths:		Marine Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	Turf	2	1	1	1	0

When tank mixes are permitted, 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 Pesticide portion of the Canada.ca website.

### Tank Mixes:

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact 2022 Environmental Science CA Inc. at 1-800-331-2867 or visit [www.ca.envu.com](http://www.ca.envu.com) for information before applying any tank mix that is not specifically recommended on this label.

2022 Environmental Science CA Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, SIGNATURE XTRA STRESSGARD contains a Group P07 fungicide. Any fungal population may contain individuals naturally resistant to SIGNATURE XTRA STRESSGARD and other Group P07 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 SIGNATURE XTRA STRESSGARD or other P07 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide 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 resistance development. Notify 2022 Environmental Science CA if reduced sensitivity of the pathogen to Signature Xtra StressGard is suspected.
- 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 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.
- For further information and to report suspected resistance, contact 2022 Environmental Science CA representatives at 1-800-331-2867 or at [www.ca.envu.com](http://www.ca.envu.com).