

GROUP	3	11	FUNGICIDE
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Dedicate Stressgard

Fungicide

COMMERCIAL

Suspension

For control of listed diseases of turfgrass on golf courses and sod farms

ACTIVE INGREDIENTS:

Tebuconazole 190 g/L

Trifloxystrobin 48 g/L

Contains 1,2-benzisothiazolin-3-one at 0.024% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

REGISTRATION NO.: 33236
PEST CONTROL PRODUCTS ACT

Net Contents: 1 L to Bulk

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

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

Product Information: 1-888-283-6847
<https://www.ca.envu.com>

In case of spills, poisoning or fire, telephone emergency response number
1-800-334-7577 (24 hours a day).

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.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilets.

DO NOT use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other areas where the general public including children could be exposed.

Apply only when the potential for drift to areas of human habitation or areas of 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.

PROTECTIVE CLOTHING AND EQUIPMENT:

During mixing, loading, application, clean-up and repair activities, workers must wear long sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves.

RE-ENTRY RESTRICTION:

Golf Courses: DO NOT enter, or allow entry until spray has dried.

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

FIRST AID:

If swallowed: 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.

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.

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

TOXICOLOGICAL INFORMATION: The patient should be treated symptomatically.

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms, birds, small wild mammals and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

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.

Dedicate Stressgard contains tebuconazole, which is persistent and may carryover. It is recommended that any products containing tebuconazole not be used in areas treated with this product during the previous season.

DO NOT apply to areas where runoff is likely to occur. Runoff from treated areas into aquatic habitats may be hazardous to aquatic organisms. Site characteristics that may lead to runoff following heavy rainfall include, but are not limited to: a moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured, or low in organic matter). If rainfall is imminent, delay spraying.

Residues of this product demonstrate the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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.

STORAGE:

Store the product in the original container. Store the product in an area that is out of reach of children and animals, away from food, feedstuffs, fertilizers and seed. Protect from frost.

DISPOSAL:

Recyclable Container: 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.

Returnable Container: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Container Disposal: For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

Disposal of Unused, Unwanted Product: 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 cleanup of spills

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DIRECTIONS FOR USE

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 wastes.

DO NOT apply when wind speed is greater than 16 km/hr at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply this product through any type of irrigation system.

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.

Buffer zones:

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Turfgrass	5	1	1	1	2

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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 buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

APPLICATION INFORMATION:

DEDICATE STRESSGARD is absorbed rapidly and works systemically from within the plant. Good coverage and wetting of the foliage are necessary. An application is rainfast after drying (~30 minutes) and rain or sprinkler irrigation after this time does not decrease effectiveness.

DEDICATE STRESSGARD should be used as part of an integrated pest management plan that promotes plant growth and minimizes stress conditions. Apply in all cases when plants are fully established and actively growing. Applications should be applied at prescribed interval to maintain disease control.

This product may cause staining. Avoid off-target hardscapes such as cart paths, driveways, pavers, or similar materials. Rinse spray equipment thoroughly with warm water and detergent. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control.

Do not make applications when conditions favor drift. All applications of DEDICATE STRESSGARD must be made in accordance with the use directions of this label.

SPRAY MIXING AND COMPATIBILITY:

Begin with clean spray equipment and add one-half of the required quantity of water to the spray or mixing tank and start agitation. In general, follow the order beginning first with water-soluble packaging (wait for it to completely dissolve), wettable powders and water-dispersible granular products, liquid flowables and suspension concentrates and emulsifiable concentrates last. Maintain agitation throughout spraying. Do not allow spray mixture to remain in the tank overnight, or for long periods during the day without agitation.

The turf safety of all potential tank-mixes with DEDICATE STRESSGARD including additives and other pesticides has not been tested on all turf species and varieties. Before applying any tank-mixture not specifically prescribed on this label, safety to the target plant should be confirmed. In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact 2022 Environmental Science CA at 1-888-283-6847 or at <https://www.ca.envu.com> for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by 2022 Environmental Science CA.

The physical compatibility of DEDICATE STRESSGARD with all potential tank-mix partners has not been fully investigated. If tank mixing with other pesticides is desirable, conduct a jar test with the volumes and rates typically used for turfgrass application. Using a small container of water, add the proportionate amounts of the products: wettable powders and water-dispersible granular products first, then liquid flowables and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 15 minutes. Look for signs of separation, globules, sludge, flakes, or other precipitates. Physical compatibility is indicated if the combination remains mixed or can be remixed readily.

SPRAY DRIFT MANAGEMENT:

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Avoiding spray drift is the responsibility of the applicator. The application equipment must be set to apply medium to coarse droplets (i.e., ASAE Standard 572) with corresponding spray pressure to reduce the potential for drift. Use high flow rate nozzles to apply the highest practical spray volume, using the appropriate droplet size to ensure adequate canopy distribution, coverage, and penetration. With most nozzle types, narrower spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to minimize drift and optimize coverage and control.

Wind: Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing. Do not spray near sensitive plants if wind is gusty, below 3 kph, or in excess of 16 kph and moving in the direction of adjacent areas of sensitive crops or plants. Do not apply during temperature inversions. Always make applications when there is some air movement to determine the direction and distance of possible spray drift.

Local terrain may influence wind patterns; the applicator should be familiar with local conditions and understand how they may impact spray drift. Boom or nozzle shielding can reduce the effects of wind or air currents on drift. Verify that the shields do not interfere with uniform deposition of product prior to application.

Temperature Inversion: A surface temperature inversion (i.e., increasing temperature with increasing altitude) greatly increases the potential for drift. Avoid application when conditions are favorable to inversion. Presence of ground fog is a good indicator of a surface temperature inversion.

Sensitive Areas: Sensitive areas for DEDICATE STRESSGARD are defined as bodies of water (ponds, lakes, rivers, and streams), wetlands, habitats for endangered species, and non-labeled agricultural crop areas. Applicators must take all precautions necessary to keep spray drift from reaching sensitive areas.

APPLICATIONS FOR TURF DISEASES CONTROL:

Use DEDICATE STRESSGARD in accordance with the label instructions on all cool season turf such as bentgrasses, bluegrasses, fescues, ryegrasses, including mixtures thereof. When applied as directed, DEDICATE STRESSGARD is not phytotoxic to these aforementioned grasses.

DEDICATE STRESSGARD controls the diseases listed below

Target Disease	Product Rate (ml / 100m ²)	Application Interval (days)	Instructions
Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	32 - 64	14-21	Apply DEDICATE STRESSGARD at the first sign of Dollar Spot symptoms or preventatively when stressful environmental conditions (extended periods of dew >8hrs at temperatures between 13-27 °C) favour dollar spot development. The highest rate is recommended to be used with the 21-day application interval.
Brown Patch (<i>Rhizoctonia solani</i>)	32 - 64	14-21	Apply DEDICATE STRESSGARD at the first sign of Brown Patch symptoms or preventatively when stressful environmental conditions (surface moisture and humidity is greater than 80%, night time temperatures >20°C) favour disease development. The highest rate is recommended to be used with the 21-day application interval.
Anthrachnose (basal rot and foliar) (<i>Colletotrichum graminicola</i> and <i>Colletotrichum cereale</i>)	32 - 64	14-21	Apply DEDICATE STRESSGARD preventatively when stressful environmental conditions favour anthrachnose disease development. For basal rot control and/or under severe disease pressure, use the highest rate and shortest interval.
Summer Patch (<i>Magnaporthe poae</i>)	32 - 64	14-28	Begin DEDICATE STRESSGARD applications preventatively when soil temperatures reach 15 - 18°C at a 5 cm soil depth in areas previously afflicted by summer patch. Continue as needed, on a 14-28 day interval. Use the highest rate and shortest interval under severe disease pressure and where there is a prior history of disease. Use adequate spray-volume or water-in application to crowns and upper roots for maximum effectiveness.
Fusarium Patch (Microdochium Patch) (<i>Microdochium nivale</i>)	32 - 64	14-21	Apply DEDICATE STRESSGARD preventively when the turf is moist and temperatures range from 0- 18° C

			without lasting snowfall. Repeat applications on a 14-21 day interval when high disease pressure is anticipated.
Leaf Spot (<i>Bipolaris</i> spp. and <i>Drechslera</i> spp.)	32 - 64	14-21	Begin DEDICATE STRESSGARD applications when symptoms of leaf spot are present or when disease conditions persist. Use the highest rate and shortest interval under severe disease pressure and where there is a prior history of disease.
Pink Snow Mould (<i>Microdochium nivale</i>)	32 - 64	1-2 applications prior to snow cover	Apply DEDICATE STRESSGARD before permanent snow cover. Use the highest rate under severe disease pressure and where there is a prior history of disease.
Grey Snow Mould (<i>Typhula incarnata</i> and <i>Typhula ishikariensis</i>)	32 - 64	1-2 applications prior to snow cover	Apply DEDICATE STRESSGARD before permanent snow cover. Use the highest rate under severe disease pressure and where there is a prior history of disease.
<p>Apply the prescribed amount in 6 to 8L of water per 100m². Do not apply more than 16.3 L /ha of Dedicate Stressgard per year. For resistance management, it is recommended to rotate product use with other fungicides with a different mode of action. See Resistance Management Recommendations below. When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.</p>			

Resistance Management Recommendations

For resistance management, please note that DEDICATE STRESSGARD contains a group 3 and 11 fungicide. Any fungal population may contain individuals naturally resistant to DEDICATE STRESSGARD and other group 3 and 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 the 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 DEDICATE STRESSGARD or other Group 3 and 11 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide 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 DEDICATE STRESSGARD is suspected.
- Contact your local extension specialist or certified turf advisors for any additional pesticide resistance-management and IPM recommendations for specific site and pest problems in the area.
- For further information and to report suspected resistance, contact 2022 Environmental Science CA at 1-888-283-6847 or at <https://www.ca.envu.com>.

