

PULSE FUNGICIDE

WETTABLE GRANULES

For disease control on golf course turf grass

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Boscalid ... 70%

REGISTRATION NO. 34509 PEST CONTROL PRODUCTS ACT

WARNING - EYE IRRITANT

READ THE LABEL AND BOOKLET BEFORE USING.

KEEP OUT OF REACH OF CHILDREN.

NET CONTENTS: 1 – 10 kg

Sharda Cropchem Limited
2nd Floor, Prime Business Park
Dashrathlal Joshi Road
Vile Parle (West)
Mumbai - 400056, India

Canadian Agent:
Sharda Cropchem Limited
63 Kingsview Blvd
Etobicoke, Ontario, CA
M9R1V1
1-844-810-5720
1-416-840-5639

GENERAL INFORMATION

PULSE Fungicide is a systemic anilide fungicide recommended for the control of dollar spot (*Sclerotinia homoeocarpa*) of golf course turf grass. For maximum efficacy, **PULSE Fungicide** should be applied when local conditions favour development of disease. All applications should be made according to the use directions that follow. Failure to follow directions and precautions on this label may result in crop injury and/or inferior disease control.

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.

Apply the recommended rate of **PULSE Fungicide** as instructed in the **Specific Use Directions** with ground spray equipment. **DO NOT APPLY BY AIR.**

Turf Grass Tolerance

Tolerance on all turf grasses under all conditions has not been assessed. Therefore, it is recommended that the user apply the recommended use rate of **PULSE Fungicide** on a small test area under conditions expected to be encountered and monitor for any adverse effects before applying **PULSE Fungicide** to targeted area.

Application Instructions

PULSE Fungicide should be applied prior to or in early stages of disease development. For maximum efficacy, apply **PULSE Fungicide** at the rates indicated in **Table 1** in 5 to 15 litres of water per 100 square meters (500-1500 litres per hectare). Use the higher specified rate when prolonged favourable disease conditions exist.

Actual length of disease control will vary depending on environmental conditions, disease pressure, and turf grass management practices.

Calibrate sprayer prior to use.

Apply after mowing or allow area to dry prior to mowing or irrigation.

Apply **PULSE Fungicide** using sufficient water volume and pressure for adequate coverage of the foliage.

Apply the recommended rate of **PULSE Fungicide** with ground spray equipment only.

Table 1. Application Rates and Intervals for Turf Grass³

Disease Controlled	Use Rate (grams/100 sq. m.)	Use Rate (grams/ha)	Application Interval (days)
Dollar spot ^{1,2} (<i>Sclerotinia homoeocarpa</i>)	3.2 – 4.0	320 - 400	14
	5.6	560	28

- ¹ DO NOT apply more than two (2) sequential applications of PULSE Fungicide for control of dollar spot.
- ² DO NOT apply more than 2.4 kilograms of product per hectare per year.
- ³ Apply prior to or in early stages of disease development.

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.

SPRAY BUFFER ZONES

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, rangelands, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer	Turf	1	0	1

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 Pesticides portion of the Canada.ca website.

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

Boscalid is persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing boscalid during the previous season.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **PULSE Fungicide** contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to **PULSE Fungicide** and other Group 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same locations. Other resistance mechanisms that are not linked to site of action but are 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 **PULSE Fungicide** or other Group 7 fungicides with different groups that control the same pathogens.

Avoid application of consecutive sprays of **PULSE Fungicide** or other fungicides in the same group in a season. Do not apply more than two (2) sequential applications of **PULSE Fungicide** for control of dollar spot. Then alternate to an effective dollar spot fungicide with a different mode of action for at least two (2) applications.

Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use 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 Sharda Cropchem Limited if reduced sensitivity of the pathogen to **PULSE Fungicide** 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 Sharda Cropchem Limited at 1-844-810-5720.

MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of **PULSE Fungicide** to the tank.
4. Continue agitation while filling the remainder of the spray tank.

5. After use, clean the spray tank according to PRECAUTIONS.

RESTRICTIONS AND LIMITATIONS

1. **DO NOT** enter or allow entry into treated areas until sprays have dried.
2. **DO NOT** apply more than a total of 24 g of **PULSE Fungicide** per 100 sq. metres (2.4 kilograms per hectare) per season.
3. **DO NOT** apply **PULSE Fungicide** to crops other than golf course turf grass.
4. **DO NOT** apply **PULSE Fungicide** through any type of irrigation equipment.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally.
3. **DO NOT** get in eyes. Causes eye irritation. Avoid contact with eyes, skin and clothing.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
5. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab.
6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use.
8. 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 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

Treat symptomatically.

STORAGE

1. Store the leftover product in original tightly closed container.
2. **DO NOT** ship or store the product near food, feed, seed and fertilizers.
3. **Store the product in cool, dry, locked, well-ventilated area without floor drain.**

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.

Group	7	Fungicide
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