GROUP	3	INSECTICIDE

FOR EMERGENCY USE ONLY
For use only to control box tree (boxwood) moth on boxwood in Ontario from June 24, 2023 until June 23, 2024.

DeltaGard SC Insecticide

SUSPENSION
COMMERCIAL

REGISTRATION NUMBER 28791 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: deltamethrin 50 g/L

Contains propyl p-hydroxybenzoate at 0.08%, or 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003%, or 2-bromo-2-nitropropane-1,3-diol at 0.03% as preservatives.

DANGER POISON

TRIPLE RINSE

SEVERE EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER
READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

NET CONTENTS: 1, 2, 10, 200 LITRES and bulk

Product Information: 1-888-283-6847
www.cropscience.bayer.ca

BAYER CROPSCIENCE INC.*
SUITE 200, 160 QUARRY PARK BLVD. SE
CALGARY, ALBERTA
T2C 3G3

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

GENERAL INFORMATION

Section 1: The Product

DeltaGard SC Insecticide is not a systemic product.
DeltaGard SC Insecticide controls insects through contact and/or ingestion.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. DeltaGard SC Insecticide is a skin sensitizer. Avoid contact. Do not breathe vapour or spray mist.

Protective Clothing and Equipment:

- Wear coveralls over 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, and clean-up and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides, during mixing and loading.
- Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.
- Change contaminated clothing daily and wash, separate from other laundry, before reusing. Clean protective equipment daily.
- DO NOT handle product with bare hands. Chemical resistant gloves significantly reduce hand exposure. ALWAYS wear gloves for mixing/loading operations and when making sprayer and nozzle repairs and adjustments. DO NOT USE LEATHER OR CLOTH GLOVES. Rinse gloves with soap and water before removal, and wash hands thoroughly before eating, smoking or drinking.

Section 3: First Aid and Toxicological Information

FIRST AID: 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. 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 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.
IF ON SKIN OR ON 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.

TOXICOLOGICAL INFORMATION:
Medical personnel should contact Bayer CropScience medical information services toll-free 1-800-334-7577. This product contains antifreeze. The treatment of intoxication should be symptomatic and supportive. If the product has been ingested, carry out gastric lavage with care to prevent aspiration.

Section 4: ENVIRONMENTAL PRECAUTIONS

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

Toxic to small wild animals.

TOXIC to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website (www.canada.ca/pollinators).

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. Deltamethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

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.

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.

Section 5: Storage

Store this product away from food or feed.
Keep away from fire, open flame, or other sources of heat.
This product CANNOT be stored below freezing.
If stored for 1 year or longer, shake well before using.

Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs. Keep in original container during storage.

Section 6: Disposal

DISPOSAL OF UNUSED SPRAY SOLUTION:
If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the field just sprayed, NOT ON THE CROP, away from water supplies, ditches and irrigation canals.

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 requirements.
For information on disposal of unused or unwanted product, contact Bayer CropScience or the provincial regulatory agency. Contact Bayer CropScience and the provincial regulatory agency in case of a spill and for clean-up of spills.

DIRECTIONS FOR USE

Section 7: Application Instructions and Cautions

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

APPLICATION INSTRUCTIONS:
Use sufficient water to ensure thorough, uniform coverage over entire plant surface for optimum insect control. More water may be required when dense foliage is present and depending on the type of spray equipment used.
Thorough wetting of all plants is essential for good results.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 8 km/h at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Air-induction nozzles must be used for the ground application of this product. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is

greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply using aerial application equipment. DO NOT apply using handheld or automated fogging, mist blower, or airblast equipment.

SPRAY BUFFER ZONES

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

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), 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 (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/ Marine Habitats of Depths:		Terrestrial habitat
			< 1 m	> 1 m	< 1 m	>1 m	
Field sprayer	Boxwood		1	1	45	20	1
Airblast	Boxwood	Early growth stage	45	35	85	75	3
		Late growth stage	35	25	75	65	2

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 airblast application of 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. Spray buffer zones for field sprayer CANNOT be modified using the Spray Buffer Zone Calculator.

APPLICATION PRECAUTIONS:
AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT (over 25°C) as control will be reduced. Best control will be achieved when DeltaGard SC Insecticide is applied during the cooler portions of the day (normally early morning or at dusk).
USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.

BOXWOOD (Outdoor grown)		
NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (BELOW): The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Bayer CropScience For these uses, Bayer CropScience has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.		
PEST CONTROLLED	**RATE**	**RECOMMENDATIONS**
Box tree (Boxwood) moth	250 – 300 mL/ha	Apply as a foliar spray in a water volume of 200 – 500 L/ha when egg masses begin to hatch or when first signs of insect feeding are evident. Ensure complete coverage. Repeat if necessary at 5-7 day intervals. Do not apply more than 3 applications per year.

Section 8: crops, insects, rates, timing

TIMING: For maximum efficacy, it is necessary to:

- keep crop and pest under observation to be able to spray at the right moment;
- ensure that insects are contacted during spraying, especially if they are found on the underside of leaves or if the foliage is very dense.

Unless otherwise stated, apply DeltaGard SC Insecticide when insects first appear and repeat as required to maintain control.
Follow provincial recommendations.
RATE RANGE: Where a rate range is given in the Directions For Use, the higher rate should be used when:

- the crop canopy is dense and foliage is inhibiting spray penetration;
- insect populations are very high.

Section 9: Mixing Instructions

The volumes of water may vary greatly, depending on the equipment, the crop, and cultural conditions. The volumes of water to be used will vary between 200 and 500 litres per hectare. Ensure spray tank is thoroughly clean. Fill sprayer half-full with clean water. Add product while agitating. Add the remaining amount of water.

Section 10: Resistance Management Recommendations

For resistance management, please note that DeltaGard SC Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to DeltaGard SC Insecticide and other Group 3 insecticides. The resistant biotypes may dominate the insect population if this group of insecticides are used repeatedly in the same field. 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 insecticide resistance:

- Where possible, rotate the use of DeltaGard SC Insecticide or other Groups 3 Insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting and record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development.
- Contact the local extension specialist or certified crop advisors for any additional pesticide resistance-management and IPM recommendations for the specific site and pest problems in the area.

For further information or to report suspected resistance, contact Bayer CropScience at 1-888-283-6847.

Section 11: Notices

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.

FOR MORE INFORMATION CONTACT:

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd SE
Calgary, Alberta T2C 3G3
Telephone: 1 888 283 6847
www.cropscience.bayer.ca