PMRA Annotated and Approved Label KLR
2024-2045
2024-06-14

GROUP	3	INSECTICIDE

FOR EMERGENCY USE ONLY
For use only to control box tree (boxwood) moth on boxwood in Ontario, Quebec, Prince Edward Island, and New Brunswick from June 24, 2024 until June 23, 2025.

SUSPEND™ POLYZONE™ INSECTICIDE

INSECTICIDE

Suspension
COMMERCIAL

ACTIVE INGREDIENT:
DELTAMETHRIN…. 50g/L

CONTAINS 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: 34599 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

CAUTION SKIN IRRITANT

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

Product Information: 1-800-331-2867
https://www.ca.envu.com

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

NET CONTENTS: 300 mL – Bulk

TABLE OF CONTENTS

		Section Number
GENERAL INFORMATION	Notices	1
SAFETY AND HANDLING	Precautions, Protective Clothing and Equipment	2
	First Aid and Toxicological Information	3
	Environmental Precautions	4
	Storage	5
	Disposal	6
DIRECTIONS FOR USE	The Product and General Application Information	7
	Pests, rates and application methods	8
	Mixing Instructions	9
	Resistance Management Recommendations	10

GENERAL INFORMATION

Section 1: 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.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS:
KEEP OUT OF REACH OF CHILDREN. May irritate the skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. For handheld application, wear eye, head and respiratory protection when applying above waist height, including overhead.

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

DO NOT apply using mechanically-pressurized handheld equipment for mists, aerosols, and fogs (droplet sizes 0.1-100 µm).

DO NOT apply when people, pets or livestock are present.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

For all sites, **DO NOT** enter or allow people, pets or livestock to enter treated areas until sprays have dried.

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 five 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 to 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:
Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically.

Section 4: ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

Toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. 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. 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). May harm bees used in greenhouse production. Avoid application when bees are in the treatment area.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods 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 m from the treatment area will help maintain beneficial arthropod populations. May harm beneficial arthropods used in greenhouse production. Avoid application when beneficial arthropods are in the treatment area.

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.

Section 5: STORAGE

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in the original container and out of the reach of children, preferably in a locked storage area. Store this product away from food or feed.

Section 6: DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial requirements.
5. For information on the disposal of the unused, unwanted products, 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 clean-up of spills.

DIRECTIONS FOR USE

Section 7: The Product and General Application Information

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 2022 Environmental Science CA. For these uses, 2022 Environmental Science CA 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

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

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waste.

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 Suspend Polyzone 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.

Spray Buffer zones:

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.

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 by air.

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

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.

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 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.

Section 10: Resistance Management Recommendations

For resistance management, please note that Suspend PolyZone contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to Suspend PolyZone and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same location. 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 Suspend PolyZone or other Group 3 insecticides with different groups that control the same pests.
- 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 your local extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. For further information or to report suspected resistance, contact 2022 Environmental Science CA at 1-800-331-2867 or at https://www.ca.envu.com.