

GROUP	3	INSECTICIDE
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## 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: 1-888-283-6847**  
**<https://www.ca.envu.com>**

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

NET CONTENTS: 300 mL – Bulk

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## 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. DO NOT apply to overhead areas or in confined spaces without appropriate respiratory and eye protection.

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

Ventilate treated areas after application either by opening windows and doors or through use of air exchange/ventilation systems confirmed to be operational. Use fans where required to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used.

DO NOT apply when a food/feed processing facility is in operation.

Cover or remove all food/feed. Cover all food/feed processing surfaces, equipment and utensils or thoroughly wash them following treatment.

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

For golf courses, **DO NOT** allow worker entry into treated areas to conduct tasks involving contact with treated turf (including mowing) during the restricted-entry interval (REI) of 12 hours. For all other activities, **DO NOT** enter or allow entry until sprays have dried.

**DO NOT** allow golfers to enter the treated areas until sprays have dried.

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

DO NOT allow spray to drip or allow drift onto non-target surfaces; any spray residue must be removed by the applicator.

### 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	<ul style="list-style-type: none"><li>• Call a poison control centre or doctor immediately for treatment advice.</li><li>• 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.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
If in eyes	<ul style="list-style-type: none"><li>• 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.</li><li>• Call a poison control centre or doctor for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control centre or doctor for treatment advice.</li></ul>
If inhaled	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control centre or doctor for further treatment advice.</li></ul>

#### TOXICOLOGICAL INFORMATION:

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

### Section 4: ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms. For turf applications, 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](http://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.

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

#### **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 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 requirements.
5. For information on the disposal of the unused, unwanted products, 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.

### **DIRECTIONS FOR USE**

#### **Section 7: The Product and General Application Information**

Suspend Polyzone is a suspension concentrate formulation containing 50 g of deltamethrin per litre. The product is designed for use both indoors and outdoors and will provide effective control of insect pests listed on this label. Suspend Polyzone can be used:

- 1) Indoors as spot or crack and crevice treatment.
- 2) Outdoors as a broadcast, spot or crack and crevice treatment on the exterior surfaces of structures.

3) Outdoors as a spot or broadcast application to turf and surrounding vegetation.

Permitted areas of use include the structures, transport vessels, and turf areas:

**Structures:**

<ul style="list-style-type: none"><li>• apartment buildings</li><li>• bakeries</li><li>• cafeterias</li><li>• correctional facilities</li><li>• greenhouses (structures only)</li><li>• hospitals</li><li>• hotels</li><li>• houses</li><li>• industrial buildings</li></ul>	<ul style="list-style-type: none"><li>• kitchens</li><li>• industrial buildings</li><li>• kitchens</li><li>• laboratories</li><li>• livestock housing</li><li>• pet kennels</li><li>• manufacturing establishments</li><li>• mausoleums</li><li>• motels</li></ul>	<ul style="list-style-type: none"><li>• nursing homes</li><li>• poultry houses</li><li>• food/feed and non-food/feed processing and packing plants</li><li>• restaurants</li><li>• schools including nurseries and daycares</li><li>• shelters</li><li>• stores</li><li>• warehouses</li></ul>
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**Modes of Transport:**

<ul style="list-style-type: none"><li>• inside transportation vessels such as buses, trucks, trailers, rail cars, marine vessels, cars, vans, mobile homes (excluding the passenger areas of aircraft)</li></ul>
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**Turfgrass Sites:**

<ul style="list-style-type: none"><li>• athletic fields</li><li>• golf courses</li></ul>	<ul style="list-style-type: none"><li>• recreational areas</li><li>• residential lawns</li></ul>	<ul style="list-style-type: none"><li>• sod farms</li><li>• turf areas in commercial sites</li></ul>
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**CAUTION:** Do not use water-based sprays of Suspend PolyZone in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

**APPLICATION RATES:**

For use inside structures and on their exterior surfaces:

1. To control severe infestations of listed structural pests, dilute 6 mL of product in 1 Litre of water (concentration: 0.03% deltamethrin).
2. For initial service or cleanout treatments, dilute 6 mL of product in 1 Litre of water (0.03% deltamethrin).
3. For maintenance treatments, dilute 2 mL of product in 1 L of water (0.01% deltamethrin).
4. For bed bugs, dilute 6 mL of product in 1 L of water for control or 12 mL of product in 1 L of water for severe infestations.

For use on turfgrass and surrounding vegetation:

1. To control chinch bugs, sod webworms, cutworms and ants, apply 12 mL of product/100m<sup>2</sup> in 6-15 L of water per 100m<sup>2</sup> (1.2 L of product per ha in 600-1500 L of water per ha).
2. To control ticks, apply 12 mL of product/100m<sup>2</sup> in 8 L of water per 100m<sup>2</sup>.

**MIXING INSTRUCTIONS:**

This product is intended to be mixed with water.

Shake this product well before measuring concentrate for dilution in water.

Mix the appropriate amount of this product with water.

If applying with a hand pressurized or power operated sprayer, thoroughly shake, agitate or invert sprayer to ensure proper suspension. If spraying is interrupted when using a back-pack or hand-held sprayer, invert sprayer to re-suspend the dilution before starting to make applications. If spray screens are used, they should be 50 mesh or larger.

If applying to turf with a ground boom sprayer, ensure spray tank is thoroughly clean. Fill sprayer half-full with clean water. Add product while agitating. Add the remaining amount of water.

## Section 8: PESTS, RATES AND APPLICATION METHODS

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.

<b>INDOOR PESTS</b> Indoor applications to buildings and structures may only be made as a spot treatment or crack and crevice application.	
<ul style="list-style-type: none"> <li>• Cockroaches</li> <li>• Spiders</li> <li>• Ants</li> <li>• Bed bugs</li> <li>• Flies (House flies, Blue bottle flies, Flesh flies, Cluster flies, Stable flies)</li> <li>• Mosquitoes</li> <li>• Darkling beetles (Lesser mealworms)</li> <li>• Ticks</li> </ul>	
Where to Apply	For use ONLY in structures as described under Section 7. Treat where pests have been seen or found, or can find shelter.
Use Rate	0.01% - 2 mL/L for all pests except bedbugs 0.03% - 6 mL/L 0.06% - 12 mL/L for bed bugs only Use Rate 0.8 – 2.5 mL concentrate per 10 square metres 410 mL diluted product per 10 square metres.
How to Apply (see Application for Indoor Pests)	<u>Surface Treatment</u> <u>Spot Applications</u> <ul style="list-style-type: none"> <li>• Spot application is localized to a surface area not more than 0.2 m<sup>2</sup>. Spots are not to be adjoining. The combined area of spots is not to exceed 10% of the total surface area of a room.</li> </ul> Use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to avoid splashing onto non-target surfaces. <u>Crack and Crevice:</u> Crack and crevice is an application directly into narrow openings on the surface of the structure. It does not include the treatment of exposed surfaces. Narrow openings typically occur at expansion joints, utility entry points and along

	<p>baseboards and mouldings. Spray directly into cracks and crevices where pests or their nests are present. Apply the volume of spray sufficient to cover the area.</p> <p>Furniture Treatment, including but not limited to upholstered furniture, hard surface furniture, mattresses, box spring, pet bedding, bed frames, dressers, curtains, picture frames, wall coverings, hollow furniture legs, etc.</p> <p>Spot: Spot application is up to 10% of the surface of the treated item.</p> <p>Crack and crevice: Crack and crevice treatments are applications to junction points on items.</p> <p>Tufts and/or seams (mattresses and upholstered furniture only): Tufts and/or seam treatment is to the junction of two or more pieces of fabric and any decorative trim (for example, buttons).</p>
When to Apply	<p>When pests are seen or found.</p> <p>Treatments may be applied to maintain adequate control.</p>
Restrictions	<p>DO NOT apply in food preparation or feed mixing areas or on feed or to watering equipment.</p> <p>DO NOT apply to surfaces that may come into contact with food/feed.</p> <p>Cover or remove all food/feed. Cover all food/feed processing surfaces, equipment and utensils or thoroughly wash following treatment</p> <p>DO NOT apply as a space spray, broadcast or indoor perimeter treatment.</p> <p>DO NOT treat pets.</p> <p><u>Mattresses and furniture:</u> <b>DO NOT</b> use on items which can be laundered (for example, pillows, bedding, toys, clothing etc.).</p>
<b>APPLICATION FOR INDOOR PESTS</b>	
Darkling beetles (lesser mealworms)	Apply where pests are seen, may hide or may enter. Particular attention should be given to treating cracks and crevices.
Cockroaches, Spiders, Ants	Apply as a spot and/or crack and crevice spray where pests have been found or can seek shelter.
Bed bugs	<p>Spray bed bugs and eggs directly wherever possible following site directions below. Remove bedding before treating mattresses. Treated mattress must be dry before replacing laundered bedding.</p> <p>Remove all objects before treatment of furniture, luggage, closets or other areas where clothing, toys, towels, and other items are stored. Treated furniture must be dry before replacing stored items.</p> <p>Apply to tufts and/or seams of mattresses and furniture.</p> <p>DO NOT apply to the entire mattress or piece of furniture. Apply to tufts and/or seams only.</p> <p>Apply to bedsprings, box springs, and the interior of bed frames or headboards, including all cracks and crevices.</p>
Stable flies, Mosquitoes, House flies, Blue bottle flies, Flesh flies and Cluster flies	Apply directly to walls, ceilings, window screens and other resting areas.
Ticks	Apply as a spot and/or crack and crevice spray where pests have been found or can seek shelter.



Non-Feed or Feed Storage Areas	Examples of areas include garbage rooms, entries, storage sheds, machine rooms and food/feed and non-food/feed processing and packing plants (after packaging, canning or bottling). In such non-food/non-feed or feed storage areas, this product may only be applied as spot treatments or crack & crevice sprays where labelled insects inhabit or may enter the facility.
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## OUTDOOR PESTS

Use this product to control outdoor pests by application as a broadcast, spot spray or crack and crevice treatment to exterior surfaces of buildings.

- Cockroaches
- Spiders
- Ants
- Flies (House flies, Blue bottle flies, Flesh flies, Cluster flies, Stable flies)
- Mosquitoes
- Darkling beetles (Lesser mealworms)
- Ticks

Where to Apply	<p>This product may be applied as an outdoor structural broadcast or perimeter treatment on the exterior surfaces of structures.</p> <p>Outdoor Structural Broadcast Outdoor broadcast application is to large outdoor structural surfaces (roofs, walls, doors, windows and foundations)</p> <p>Outdoor Perimeter: Outdoor perimeter application is 1m or less out from the building's foundation and to a maximum height of 1 m starting where the foundation meets the ground.</p>
Application Restrictions	<p>DO NOT apply to the point of run-off.</p> <p>DO NOT make applications during rain.</p> <p>Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.</p>
Use Rate	<p>0.01% - 2 mL/L for all pests except mosquitoes</p> <p>0.03% - 6 mL/L</p> <p>0.8-2.5 mL of concentrate per 10 square metres</p> <p>410 mL of diluted product per 10 square metres</p>
How to Apply (see Application for Outdoor Pests)	Use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to avoid splashing onto non-target surfaces.
When to Apply	<p>When pests are seen or found.</p> <p>Treatments may be applied as necessary to maintain adequate control.</p>
<b>APPLICATION FOR OUTDOOR PESTS</b>	
Darkling beetles (Lesser mealworms)	Apply as a spray to the exterior surface of structures where darkling beetles may seek entry.
Cockroaches, Spiders, Ants	Apply as a spray to the exterior surface of structures. where the pests are found, may hide or may enter the structure. Such areas may include around windows and doors, under eavestroughs, and in garages, enclosed crawl spaces and trash containers

Ticks	Apply as a coarse wet spray to exterior surfaces where ticks have been found or may seek shelter.
Stable flies, Mosquitoes, , House flies, Blue bottle flies, Flesh flies, and Cluster flies	Use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to exterior surfaces of buildings and other areas where house flies rest. Spray siding, eaves, around windows and doors, and window screens. To help reduce infestations, treat cracks and crevices and other hiding places. Cluster flies: Treat in late summer or fall, just before cluster flies begin looking for winter shelter.

<b>PESTS IN/ON TURFGRASS AND SURROUNDING VEGETATION</b>	
Use this product to control outdoor pests in/on turf and surrounding vegetation by application as a broadcast or spot spray.	
<ul style="list-style-type: none"> <li>• Chinch bugs</li> <li>• Sod webworms</li> <li>• Cutworms</li> <li>• Ants</li> <li>• Ticks</li> <li>• Mosquitos</li> </ul>	
Application Restrictions	<p>AVOID APPLICATION WHEN TEMPERATURE INVERSIONS ARE PREVAILING OR DURING PERIODS OF EXCESS HEAT as control will be reduced. Best control will be achieved when Suspend Polyzone is applied during the cooler portions of the day (normally early morning or at dusk).</p> <p>DO NOT make applications during rain.</p> <p>Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.</p> <p>DO NOT apply more than 2 times per year on turf.</p> <p>DO NOT allow people or pets to re-enter the treated area until product has dried.</p> <p>Delay irrigation or mowing for 24 hours following application</p>
Use Rate	<p>0.004% - 0.8 mL/L</p> <p>0.01% - 2 mL/L</p> <p>Use Rate 0.32 – 0.8 mL concentrate per 10 square metres</p> <p>600 - 1500 mL diluted product per 10 square metres.</p>
How to Apply (see Application for Outdoor Pests)	<p>Apply in a sufficient volume of water to provide adequate coverage.</p> <p>For <u>field sprayer application</u>: DO NOT apply during periods of dead calm. Avoid the 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 are recommended for the ground application of this product. Boom height must be 60 cm or less above the crop or ground. DO NOT apply by air.</p>
When to Apply	Apply when insects are present.
<b>APPLICATION FOR PESTS IN/ON TURFGRASS AND SURROUNDING VEGETATION</b>	
Chinch bugs, Sod webworms,	Apply 12 mL of product/100m <sup>2</sup> in 6-15 L of water per 100m <sup>2</sup> (1.2 L of product per ha in 600-1500 L of water per ha).

Cutworms, Ants	Apply when insects are present. A second application may be necessary in 2-3 weeks time, where heavy infestations occur. For dense turfgrass canopies and/ or turf maintained under high mowing heights, and/or turf with thatch, minimum water volumes of 10 L per 100m <sup>2</sup> or greater are recommended to ensure material moves through the thatch.
Ticks	Apply 12 mL of product/100m <sup>2</sup> in 8 L of water per 100m <sup>2</sup> . Use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to avoid splashing onto non-target surfaces. Apply as a 3 metre band to turf areas around property lines or around structures such as dog houses, kennels, sidewalks, pathways or patios or to surrounding vegetation where ticks are a problem. Areas that are of particular importance to observe for ticks include those adjacent to forested areas, stonewalls, and other areas where there is overgrown vegetation. Reduce tick habitat through landscape management practices including but not limited to mowing the turf and removal of weeds, leaf litter and other debris where ticks are found.
Mosquitoes	Apply a 0.03% (6 mL/L) solution as a spray or mist around landscape plants, turf and ground cover and other places where mosquitoes may rest.

### Spray Buffer zones:

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
		Less than 1m	Greater than 1 m	Less than 1m	Greater than 1 m	
Field Sprayer	Turf (golf courses, residential lawns, sod farms)	3	2	120	65	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. Spray buffer zones of 120 m (field sprayer) CANNOT be modified.

## Section 9: 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 1-888-283-6847 or at <https://www.ca.envu.com>.