

**(Container)**



# Spinosad Insecticide

- A Naturalyte™ insect control product for control of insects in turfgrass, outdoor ornamentals, fruits and vegetables.
- For use in insect control programs.

DOMESTIC

READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: spinosad                      0.5%  
suspension concentrate

REGISTRATION NO. 28602 PEST CONTROL PRODUCTS ACT

MAY CAUSE EYE IRRITATION

NET CONTENTS: 1 L

**Corteva Agriscience Canada Company**  
Suite 240, 115 Quarry Park Rd. SE  
Calgary, AB  
T2C 5G9  
1-800-667-3852

™Trademark of Corteva Agriscience and its affiliated companies.

## **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN

Avoid contact with eyes, skin and clothing. Do not allow others such as children and pets on treatment areas during application or to re-enter treated areas until spray has dried. Wash immediately after using this product.

## **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 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.

## **TOXICOLOGICAL INFORMATION**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

## **ENVIRONMENTAL PRECAUTIONS**

This product is highly toxic to bees exposed to direct treatment, drift or residues on blooming plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment area. This product is harmful to parasitoids and predatory mites and slightly harmful to foliage-dwelling predators. This product is highly toxic to aquatic invertebrates. Do not contaminate aquatic habitats, such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands, when cleaning and rinsing spray equipment or containers. Do not spray immediately after a rainfall or if there is a forecast for rain during or within 48 hours after application.

## **STORAGE**

Do not ship or store with food, feeds, drugs or clothing. Avoid freezing. Do not contaminate water, foodstuffs, seed or feed by storage or disposal.

## **DISPOSAL**

Do not re-use empty container. Wrap and dispose of empty container with household garbage.

**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.

**(Booklet)**



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## **DIRECTIONS FOR USE**

Spinosad Insecticide contains the active ingredient spinosad which is derived from a soil organism. Follow the specific application rates and use instructions listed in the following tables to control target pests in turfgrass, outdoor ornamentals, and home gardens. Always shake well before use. Avoid freezing. Uniform coverage is critical for effective insect control. Dilute Spinosad Insecticide in sufficient water and apply using suitable application equipment (e.g., hand-held sprayer) to ensure thorough and complete plant coverage. Attempt to penetrate dense foliage, but avoid over-spraying to the point of excessive runoff.

**SPINOSAD INSECTICIDE APPLICATION INSTRUCTIONS**

Fill the spray tank with water to ½ of the total spray volume required. Add the required amount of Spinosad Insecticide. Fill the spray tank to the required spray volume. Shake well to ensure uniformity of the spray mix.

**FRUITS**

<b>Crops</b>	<b>Application Rate (mL product/ L water)</b>	<b>Pests Controlled</b>	<b>Comments</b>
<b>Pome fruits:</b> apple, crabapple, pear, Oriental pear, quince	17.5 mL	oblique-banded leafroller, three-lined leafroller, fruittree leafroller, European leafroller  eye-spotted budmoth	Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 7 days of harvesting.
<b>Stone fruits:</b> apricot, sweet cherry, tart cherry, nectarine, peach, plum, chickasaw plum, damson plum, Japanese plum, prune	17.5 mL	oblique-banded leafroller, three-lined leafroller, fruittree leafroller, European leafroller  eye-spotted budmoth	Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 7 days of harvesting cherries, plums and prunes. Do not apply within 14 days of harvesting apricots, nectarines and peaches.

**VEGETABLES**

<b>Crops</b>	<b>Application Rate (mL product/m<sup>2</sup>)</b>	<b>Pests Controlled</b>	<b>Comments</b>
<b>Brassica leafy vegetables:</b> broccoli, Chinese broccoli, brussels sprouts, cabbage, Chinese cabbage, Mustard/Chinese cabbage, Nappa/Chinese cabbage, cauliflower, cavalo broccolo, kohlrabi (rapini), broccoli raab, Bok Choy/Chinese cabbage, collards, kale, mustard greens, spinach mustard, rape greens	1.75 mL	cabbage looper, diamondback moth, imported cabbage worm	Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 3 days of harvesting.
<b>Leafy vegetables, except Brassica:</b> Arugula, chervil, garden cress, upland cress, endive, head lettuce, leaf lettuce, orach, parsley, radicchio, spinach, New Zealand spinach, vine spinach, cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, Swiss chard	1.75 mL	cabbage looper, imported cabbage worm, diamondback moth	Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 1 day of harvesting.

<b>Fruiting vegetables, except cucurbit:</b> eggplant, groundcherry, pepino, bell pepper, chili pepper, nonbell pepper, sweet nonbell pepper, tomatillo, tomato	0.8 mL	European corn borer	Apply up to a maximum of 3 applications per year (maximum of 2 applications per year for European corn borer). Allow 7-10 days between applications. Do not apply within 1 day of harvesting.
	0.8 mL	Colorado potato beetle	
	1.75 mL	cabbage looper, imported cabbageworm, diamondback moth	
<b>Root and tuber vegetables:</b> horseradish, radish, Oriental radish, rutabaga, turnip	1.75 mL	cabbage looper, imported cabbageworm, diamondback moth	Apply up to a maximum of 3 applications per year. Allow 7-10 days between applications. Do not apply within 3 days of harvesting.
<b>Potatoes</b>	0.8 - 1.6 mL	Colorado potato beetle	Target eggs at hatch or small larvae. Use higher rate for higher pest pressure, but do not apply more than 2.4 mL Spinosad Insecticide per square metre per year. A repeat application 7-10 days after the initial application may be necessary. Do not apply within 7 days of harvesting.
	1.4 mL	European corn borer	Target application to coincide with peak egg hatch. Do not apply more than 1 application per year. Do not apply within 7 days of harvesting.
<b>Snap bean</b>	0.8 mL	European corn borer	Apply up to a maximum of 2 applications per year. A second application 7-10 days after the initial application may be necessary to achieve effective control. Do not apply within 3 days of harvesting.
<b>Sweet corn</b>	0.8 mL	European corn borer	Apply in water up to a maximum of 2 applications per year. A second application 7-10 days after the initial application may be necessary to achieve effective control. Do not apply within 7 days of harvesting.

**TURFGRASS (LAWNS, SOD)**

Use Spinosad Insecticide to control sod webworm. Dilute Spinosad Insecticide in water and apply using suitable application equipment.

Insect pest	Application rate (mL product/m <sup>2</sup> ) <sup>††</sup>	Maximum number of applications per year
Sod webworm	0.48 – 0.96 mL	4

**Sod webworm:** For control of sod webworm larvae, applications during the late afternoon or early evening can maximize control. Delay watering or mowing of the treated area for 12 to 24 hours after treatment. Do not reapply within less than 7 days.

<b>Insect Pest</b>	<b>Application rate (mL product/ L water)</b>	<b>Maximum number of applications per year</b>
conifer sawfly larvae, tent caterpillars, gypsy moth larvae, willow leaf beetle, elm leaf beetle	2.4 mL	4
western flower thrips	4.8 mL	3

#### **Application Timing**

Do not reapply within less than 7 days for all insect pests.

**Leaf beetles (such as elm leaf and willow leaf beetle)** - for effective control of elm leaf and willow leaf beetle larvae, applications should be made in the spring or early summer when feeding is observed.

**Western flower thrips** - for effective control of exposed western flower thrips on outdoor ornamentals, monitor and apply when populations reach damaging levels. For best results, apply at the floral stage of development and repeat at 7-14 day intervals as required by population pressure.

**Tent caterpillar (such as eastern tent caterpillar)** - for effective control of tent caterpillar, applications should be made early when webs are first observed and the spray should be directed into the web and surrounding foliage within at least 1 metre of the nest.

**Conifer sawfly larvae** - for effective control of sawfly larvae, applications should be made as soon as larvae appear (2<sup>nd</sup> -4<sup>th</sup> instar).

**Gypsy moth** - for effective control of gypsy moth larvae, applications should be timed for when larvae are small and majority of eggs are hatched.

#### **Ornamental Phytotoxicity**

Spinosad Insecticide has been tested on a variety of herbaceous and woody ornamental plants without phytotoxic symptoms. If in doubt about a sensitive species, spray a small test area on a plant before treating all plants or trees. The user assumes responsibility for determining if Spinosad Insecticide is safe to treated plants.

For further information contact Corteva Agriscience Canada Company at 1-800-667-3852 or at [www.corteva.ca](http://www.corteva.ca)

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