

This label has been updated according to the re-evaluation decision of Thiamethoxam SRD2021-04. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 31/03/2023 in accordance with the phase out period set out in the re-evaluation/special review decision of Thiamethoxam SRD2021-04. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and registration number of the label you are requesting.

| | | | |
|--------------|----------|----------|---------------------|
| GROUP | 3 | 4 | INSECTICIDES |
|--------------|----------|----------|---------------------|

ENDIGO®

INSECTICIDE

COMMERCIAL

SUSPENSION CONCENTRATE

For the control of listed insects on soybeans and dried shelled beans.

ACTIVE INGREDIENTS:

Thiamethoxam 141 g/L
Lambda-cyhalothrin 106 g/L

Contains 1,2-benzisothiazolin-3-one at 0.054% and 2-bromo-2-nitropropane-1,3-diol at 0.03% OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00099% and 2-methyl-4-isothiazolin-3-one at 0.00033% as preservatives.

**READ THE LABEL AND THE PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

DANGER



POISON

CAUTION: EYE AND SKIN IRRITANT

REGISTRATION NO: **30404**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L – 1050 L**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 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.

2.0 FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a doctor or a poison control centre. 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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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 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 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.

3.0 TOXICOLOGICAL INFORMATION

In case of poisoning, treat symptomatically. This product contains petroleum distillate; vomiting may cause aspiration pneumonia. In case of exposure to skin of face or other sensitive areas, some individuals may feel a tingling or numbness called paresthesia. This is a transitory effect and does not cause harm to skin.

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

4.0 PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN AND ANIMALS.** Keep unused product in original container tightly closed, locked up and away from food.
2. Fatal or poisonous if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. If hands are contaminated, wash with soap and water before touching other areas of skin.

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.

RESTRICTED ENTRY INTERVAL (REI): DO NOT enter or allow worker entry into treated areas during the intervals specified in the following table:

| Crops | Post-application Activity | REI |
|-------------------------------|---------------------------|----------|
| Soybeans, dried shelled beans | All activities | 12 hours |

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls or long sleeved shirt, long pants, chemical resistant gloves, socks and shoes and goggles or a face shield during mixing, loading application, clean up and repair, unless otherwise listed below. Eye protection is not required during application. Gloves are not required during application within a closed cab or cockpit.

For applications using an open-cab groundboom equipment, when handling more than 67.45 L per person per day, also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides or a NIOSH-approved canister approved for pesticides OR use a closed cab tractor that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Respirator and gloves are not required to be worn during application within a closed cab. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

When handling more than 1.04 L per person per day using mechanically-pressurized handheld equipment, also wear 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 application.

For all applications using handheld equipment, wear eye, head and respiratory protection when applying above waist height, including overhead.

Avoid touching face with contaminated gloves or clothing. Wash gloves before removal. Wash protective equipment with soap and water after each use.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. This product contains an active ingredient and aromatic petroleum distillates that are toxic to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

Toxic to bees. This product is systemic and residues from soil may be transported through plants into leaves, pollen and nectar. Bees may be exposed directly, through spray drift or to residues on/in leaves, pollen and nectar in flowering crops and weeds. To minimize exposure to bees from foliar application, DO NOT apply this product to flowering crops or weeds if bees are visiting the treatment area. 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.healthcanada.gc.ca/pollinators). Follow crop specific directions for application timing.

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.

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.

To reduce risk to aquatic organisms from runoff, a vegetative filter strip of at least 10 metres wide between the field edge and adjacent, downhill aquatic habitats must be observed, as specified under DIRECTIONS FOR USE.

7.0 STORAGE

Store above 0°C (32°F) in the original container.

Store in a dry, well ventilated area away from food or feed and out of the reach of children and animals. Keep away from fire or open flame, or other sources of heat.

8.0 DISPOSAL

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.

Recyclable Container:

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.
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Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

GROUP 3 4 INSECTICIDES

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Pamphlet

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Avoid application when heavy rain is forecast.

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CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

ENDIGO® Insecticide is a broad-spectrum foliar insecticide that controls or suppresses insects through the combination of two active ingredients, thiamethoxam and lambda-cyhalothrin. This product provides effective knockdown and residual control of several economically important pests of soybeans and dry beans.

10.0 DIRECTIONS FOR USE

10.1. General Information

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.

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 Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada 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.

Always read and follow label directions including WALES mixing order.

DO NOT apply in greenhouses.

A Vegetative Filter Strip (VFS) of at least 10 metres wide must be constructed and maintained. The VFS is required between the field edge and adjacent, downhill aquatic habitats to reduce risk to aquatic organisms from run-off. Aquatic habitats include, but are not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries.

The VFS is to be composed of grasses and may also include shrubs, trees or other vegetation. Additional guidance can be found on the PMRA Environmental Risk Mitigation webpages.

Both VFS and spray drift buffer zones must be observed.

Optimum application timing for the control of specific pest species is best determined by monitoring pest development and populations. In general, ENDIGO Insecticide is most effective against early developmental stages of surface feeding pests and against adults of pests which deposit eggs within plant parts. Follow recommendations provided by local pest monitoring services regarding appropriate application timing for your area. Follow provincial spray calendars for optimum timing of programmed spray applications.

Clean and decontaminate protective clothing and application equipment regularly.

10.2. Ground Application

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.

10.2.1. Equipment Clean-Up

Before Spraying:

- Prior to using ENDIGO Insecticide, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow ENDIGO Insecticide residue to dry within the spray tank
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
 2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsate in accordance with provincial regulations.

10.3. Aerial Application

Aerial 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 flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium-coarse classification. **DO NOT** apply under weather conditions of less than 50% relative humidity and temperatures greater than 20°C. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

10.3.1. General Information

Apply only by fixed-wing or rotary aircraft equipment that has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the labelled rate for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

10.3.2. Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

10.3.3. Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

10.3.4. Product Specific Precautions

Read and understand the entire label before using this product. If you have questions, call the manufacturer at 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

For aerial applications, ensure the aircraft is equipped and calibrated to deliver a uniform spray coverage with a minimum potential for drift. To ensure uniform application, use an appropriate marking device. Apply in weather conditions that will not promote drift.

Use nozzles rated to deliver medium-coarse droplets of volume median diameter of 340 microns or greater.

10.4. 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 Habitat of Depths: | | Terrestrial Habitat |
| | | | Less than 1 m | Greater than 1 m | Less than 1 m | Greater than 1 m | |
| Field sprayer | Soybeans, dried shelled beans (<i>Phaseolus</i> spp., <i>Lupinus</i> spp., <i>Vigna</i> spp., dry fava beans, dry lablab beans and chickpeas) | | 10 | 4 | 4 | 2 | 1 |
| Aerial | Soybeans, dried shelled beans (<i>Phaseolus</i> spp., <i>Lupinus</i> spp., <i>Vigna</i> spp., dry fava beans, dry lablab beans and chickpeas) | Fixed wing | 800 | 800 | 800 | 225 | 1 |
| | | Rotary wing | 700 | 425 | 450 | 225 | 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 CANNOT 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.

11.0 CROP USE DIRECTIONS

When applied as directed, ENDIGO Insecticide will control the listed pests, unless otherwise indicated as suppression.

DO NOT feed treated crops to livestock.

11.1. Soybeans, Dried Shelled Beans

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CROPS | SOYBEANS DRIED SHELLED BEANS (<i>Phaseolus</i> spp., <i>Lupinus</i> spp., <i>Vigna</i> spp., dry fava beans, dry lablab beans and chickpeas) |
| PEST | Soybean aphids, Bean leaf beetle |
| PRODUCT RATE | 180 mL/ha |
| APPLICATION METHOD | Ground and aerial application |
| APPLICATION TIMING | The need and timing of application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Consult local agricultural personnel and provincial guidelines on the use of this product. |
| NOTES | Soybeans: Do not apply within 30 days of harvest. Dried shelled beans: Do not apply within 21 days of harvest. DO NOT use more than 1 application per year. DO NOT graze or harvest treated forage, straw or hay for livestock feed . DO NOT cut treated field for hay/forage. DO NOT graze treated fields. DO NOT feed treated crops to livestock. DO NOT apply pre-bloom or during bloom (Do not apply until after stage R3.5 (petal fall)). Do not apply when bees are present. DO NOT apply ENDIGO following a seed treatment or soil application of any Group 4 insecticide. Water volume: <u>For ground application:</u> 100 to 200 L/ha. <u>For aerial application:</u> apply in a spray volume of 50 L/ha. |

12.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that ENDIGO Insecticide contains Group 3 and Group 4 insecticides. Any insect population may contain individuals naturally to ENDIGO Insecticide and other Group 3 or 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. 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 insecticide resistance:

Where possible, rotate the use of ENDIGO Insecticide or other Group 3 or 4 insecticides with different groups that control the same pests.

Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.

Insecticide use should be based on an integrated pest management program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.

Monitor treated pest populations for resistance development.

Contact your local extension specialist or certified crop advisors 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 Syngenta Canada Inc. company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

ENDIGO® is a trademark of a Syngenta Group Company.