

GROUP	<b>4</b>	INSECTICIDE
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## FLAGSHIP® Insecticide

**INSECTICIDE**

**WETTABLE GRANULES**

**COMMERCIAL**

For control of insect pests on outdoor ornamentals and greenhouse peppers.

**ACTIVE INGREDIENT:**

Thiamethoxam .....25%

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

**CAUTION - EYE IRRITANT**

REGISTRATION NO.: **30723**  
PEST CONTROL PRODUCTS ACT

NET CONTENT: **450 g – 3.4 kg**

**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**, call a doctor or poison control centre **IMMEDIATELY**. 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.

## 3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote for this product if ingested. Treat symptomatically.

## 4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN and domestic animals. PREVENT ACCESS BY UNAUTHORIZED PERSONNEL. Hazard to Humans and Domestic Animals.

May irritate eyes. Avoid contact with eyes. Avoid contact with skin. Avoid inhalation of vapours and spray mist. Wash hands and face after handling and before eating or smoking.

Avoid contamination of feed and foodstuffs.

DO NOT apply by air

**RESTRICTED ENTRY INTERVAL (REI):** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration

wind speed, wind direction, temperature, application equipment and sprayer settings.

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 long-sleeved shirt, long pants, chemical resistant gloves, socks and boots during mixing, loading, clean-up and repair; wear long-sleeved shirt, long pants, socks and boots during application.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

Do not wear contaminated shoes.

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

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

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. 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)). Follow crop specific directions for application timing.

Greenhouse uses: Toxic to bees and other beneficial insects. Avoid application when bees or other beneficial insects are actively visiting the treatment area. Residues in/on plants or soil may harm bees and other beneficial insects used in greenhouse production.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

This product is 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.

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.

## **7.0 STORAGE**

To prevent contamination, store this product away from food or feed.

Store in a cool, dry place.

## **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 cleanup of spills.

### **For Recyclable Containers**

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

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Pamphlet

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To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.



This product is 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.

Avoid application when heavy rain is forecast.

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## **7.0 STORAGE**

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## 9.0 PRODUCT INFORMATION

FLAGSHIP® Insecticide controls chewing insects through contact and ingestion.

FLAGSHIP Insecticide should be applied to plant foliage when insect pest populations begin to build, but before pest populations reach economically damaging levels. Economic thresholds for pests controlled by FLAGSHIP Insecticide may be available from your local agricultural authorities.

FLAGSHIP Insecticide is taken up into foliage after application. However, thorough spray coverage is essential for best performance. Apply FLAGSHIP Insecticide in sufficient water to ensure good coverage. See specific application information in the Directions for Use section of this label. The use of higher water volumes will generally result in better coverage, especially under adverse conditions (e.g. hot, dry weather) or where a dense plant canopy exists.

FLAGSHIP Insecticide is rainfast once the spray solution has dried on treated plants.

## 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.

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

Apply FLAGSHIP Insecticide using sufficient water volume to provide thorough and uniform coverage. Use a minimum of 100 L/ha unless otherwise indicated on this label. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Avoid spray overlap.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

#### Precautions:

- 1) When using water volumes of 100 L/ha, fine-sized droplets may be used to improve spray coverage.
- 2) Select nozzles that can produce the desired droplet sizes at the normal rated pressure range.
- 3) When spraying fine-sized droplets, carefully check all nozzles for flow and calibrate the sprayer.
- 4) The sprayer should travel at a uniform speed.
- 5) Monitor environmental conditions and follow **Recommendations to Avoid Spray Drift** carefully.

## 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 with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) fine classification. Boom height must be 60 cm or less above the crop or ground.

### 10.2.1. Mixing Instructions

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area. Keep product container tightly closed when not in use.

1. Add 1/2 of the required amount of water to the mix tank.
2. With the agitator running, add the desired amount of FLAGSHIP Insecticide to the tank.
3. Continue agitation while adding the remainder of the water.
4. Begin application of the solution after FLAGSHIP Insecticide has completely dispersed into the mix water.
5. Maintain agitation until all of the mixture has been applied.

## 10.3. 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), and 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:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	
Field Sprayer	Outdoor ornamentals	10	5	2
	Outdoor Nurseries and Landscapes	5	3	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.

#### **10.4. Rotational Restrictions**

Treated areas may be replanted immediately following harvest or as soon as practical following the last application with any crop listed on this label or to sorghum, wheat, barley, and canola. Any cover crop planted for erosion control or soil improvement may be planted as soon as practical following the last application. However, the cover crop may not be grazed or harvested for food or feed. For all other crops, a 120 day plant-back interval must be observed.

## 11.0 MINOR USES

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. 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.

### 11.1. Outdoor Ornamentals

<b>ORNAMENTALS</b>	
<b>CROPS</b>	<b>OUTDOOR ORNAMENTALS (CONIFEROUS EVERGREENS AND ORNAMENTAL GRASSES ONLY)</b>
<b>PEST</b>	Black vine weevil ( <i>Otiorhynchus sulcatus</i> )
<b>RATE</b>	10.5-14 g/100 L water
<b>SPRAY VOLUME</b>	Apply using a sufficient water volume to ensure adequate coverage of the foliage, up to a maximum of 2000 L/ha
<b>PESTS</b>	Aphids Leafhoppers
<b>RATE</b>	105 g/ha
<b>PESTS</b>	Tarnished plant bug (suppression)
<b>RATE</b>	210-280 g/ha
<b>SPRAY VOLUME</b>	Sufficient water volume to ensure adequate coverage of the foliage, use at least 100 L/ha. Do not exceed 1000 L/ha.
<b>APPLICATION INTERVAL (days)</b>	7
<b>NOTES</b>	Foliar application only.  <b>DO NOT</b> make more than 2 applications per year.  Apply before pests reach damaging levels or when weevils or damage are first observed. Scout fields and treat again if populations rebuild to potentially damaging levels.  Apply higher rates for heavy infestations.  <b>DO NOT</b> apply by air..
<b>POLLINATOR PRECAUTIONS</b>	This product is highly toxic to bees exposed to direct treatment or to residues on blooming crops and weeds. <b>DO NOT</b> apply FLAGSHIP Insecticide or allow it to drift onto blooming crops or weeds if bees are foraging in/or adjacent to the treatment area. If bees are foraging in the ground cover and it contains any blooming plants or weeds, always remove flowers before making an application. This may be accomplished by mowing, disking, mulching, flailing, or applying a labeled herbicide. After a FLAGSHIP Insecticide application, wait at least 5 days before placing the beehives in the treated field.

**11.2. Outdoor Nurseries and Landscape**

<b>CROPS</b>	<b>OUTDOOR NURSERIES AND LANDSCAPE (CONIFEROUS EVERGREENS AND ORNAMENTAL GRASSES ONLY)</b>
<b>PEST</b>	Brown marmorated stink bug (suppression)
<b>RATE</b>	280 g/ha
<b>SPRAY VOLUME</b>	Adequate water volume to achieve thorough and uniform coverage without excessive runoff (to drip).
<b>APPLICATION INTERVAL (days)</b>	N/A
<b>NOTES</b>	<p>Foliar application only</p> <p>Maximum 1 application per year</p> <p>Apply before pests cause significant damage to the host plant.</p> <p>For use in residential or landscape settings, do not allow re-entry into treated areas until residues have dried.</p> <p>Before making large scale applications to any crop, a representative subset of material should be treated to determine plant safety under the cultural conditions. Growing conditions and cultural practices vary and may influence phytotoxicity.</p> <p>It is strongly recommended that evaluations be conducted on a sample set of plant material to observe for phytotoxicity prior to treating an entire crop.</p>
<b>POLLINATOR PRECAUTIONS</b>	<p>This product is highly toxic to bees exposed to direct treatment or to residues on blooming crops and weeds. Do not apply FLAGSHIP Insecticide or allow it to drift onto blooming crops or weeds if bees are foraging in/or adjacent to the treatment area. If bees are foraging in the ground cover and it contains any blooming plants or weeds, always remove flowers before making an application. This may be accomplished by mowing, disking, mulching, flailing, or applying a labeled herbicide. After a FLAGSHIP Insecticide application, wait at least 5 days before placing the beehives in the treated field.</p>

### 11.3. Greenhouse Vegetables

<b>GREENHOUSE VEGETABLES</b>	
<b>CROPS</b>	<b>GREENHOUSE PEPPERS</b>
<b>PEST</b>	Pepper weevil ( <i>Anthonomus eugeni</i> ) (suppression only)
<b>RATE</b>	14 g/100 L water
<b>SPRAY VOLUME</b>	Apply in sufficient water volume to ensure thorough coverage, up to a maximum of 2000 L/ha
<b>APPLICATION INTERVAL (days)</b>	7
<b>PHI (days)</b>	1
<b>NOTES</b>	<p>Apply before pests reach damaging levels.</p> <p>Monitor greenhouse and reapply if the pest population rebuilds to potentially damaging levels.</p> <p>Maximum of 3 applications per crop cycle.</p> <p>FLAGSHIP Insecticide should be used in conjunction with a robust integrated pest management (IPM) program which includes monitoring with lures and sticky traps, regular (at least weekly) scouting of the crop for oviposition symptoms on young fruit, removal and proper disposal of suspected infested fruits and thorough sanitation at the end of each crop cycle.</p>
<b>POLLINATOR PRECAUTIONS</b>	Toxic to bees and other beneficial insects. Avoid application when bees or other beneficial insects are actively visiting the treatment area. Residues in/on plants or soil may harm bees and other beneficial insects used in greenhouse production.

## 12.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that FLAGSHIP Insecticide contains a Group 4 insecticide (neonicotinoid class of chemistry). Any insect population may contain individuals naturally resistant to FLAGSHIP Insecticide and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area.

### **To delay insecticide resistance:**

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

Use tank mixtures with miticides/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 company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).